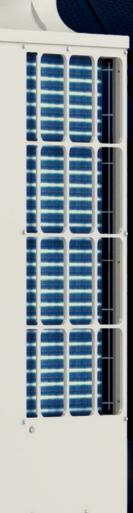


for a greener tomorrow eco



# CITY MULTI







Air conditioning is an ideal way of controlling the temperature, movement and cleanliness of air inside any building, large or small. With today's buildings being so well insulated and increasingly full of electronic equipment, the need for effective climate control is greater than ever. Not only does it cool in the summer months, but air conditioning can also heat, doing away with the need for separate heating systems altogether. More and more people today are enjoying the benefits of comfortable working and living environments made possible with air conditioning.

## Our Latest Technologies

#### VRF system

VRF stands for Variable Refrigerant Flow. A VRF air conditioning system modulates the flow of refrigerant depending upon the capacity requirements of the building. In its simplest form, a VRF system comprises an air-cooled outdoor unit and a series of indoor units that regulate the air temperature inside an internal space.

#### nverter driven technology

At Mitsubishi Electric we strive to continually meet the increasing demands of our customers, being the first in the industry to offer highly advanced 'inverter driven' systems. Using inverter technology our systems produce just the right amount of output to match the exact requirement of any building. These systems work so efficiently that they don't waste valuable energy by over-heating or over-cooling, resulting in greatly reduced running costs. Alternative systems that may appear cheaper, can often cost substantially more to run, making us the most cost effective choice all round.

# ntelligent Power Module (IPM) technology

The CITY MULTI range from Mitsubishi Electric provides precise control of energy input, through utilization of its Intelligent Power Module (IPM) technology. By employing this technology, highly efficient operation is possible with compact units closely matching building requirements.

#### R 410A refrigerant

As scientific evidence points to man-made chemicals for the damage caused to the ozone layer, we only use chlorine-free refrigerants that are safe with zero ODP (Ozone Depletion Potential). Accordingly, our systems require less energy to run, and have a significantly lower indirect global warming potential. In short, we produce the most efficient equipment possible, while helping to protect the environment.

## Unsurpassed air conditioning from Mitsubishi Electric

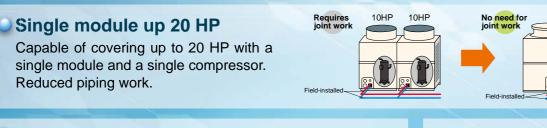
Known the world over, Mitsubishi Electric is a trusted household name associated with a variety of products and services. Founded in 1920, the company known today as Mitsubishi Electric, quickly rose to the forefront of the air conditioning industry - a position we still enjoy today. We pride ourselves on offering some of the most energy efficient systems available on the market.

| Contents   |              |  |
|--|--------------|--|
| Features of Mitsubishi Electric air conditioners | Page 1-12    |  |
| Outdoor unit                                     | Page 14-91   |  |
| Indoor unit                                      | Page 92-132  |  |
| Remote Controller                                | Page 133-155 |  |
| Optional parts                                   | Page 156-159 |  |
| Installation information                         | Page 160-166 |  |
| Maintenance equipment                            | Page 167     |  |
|  |              |  |

# The New **Cooling-only Models**

Mitsubishi Electric offers a wide lineup of new cooling-only models with the maximum capacity of 54 HP\*. Different patterns of combinations of basic modules provide either standard or high COP. \*Applicable to standard model combinations only

## New features



**Compatibility to outdoor** temperature of up to 52°C\* Capable of running cooling operations in the outdoor temperature of up to 52°C\*. \*Compared to 46°C of the older model

Farthest indoor from first branch: 90 m

is up to 30 m.

Increase in the limit of piping length

Height difference between indoor and indoor units

# 52°C

All modules feature inverter-driven compressors. Maximum combined horse power: 60 HP \*56-, 58-, and 60-HP models will be availab in December 2014.

## Energy saving

#### Compressor

•Improved efficiency by the use of DC brushless motor.

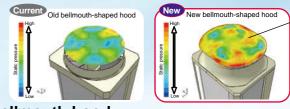
•Improved partial-load characteristics achieved by the optimized scroll shape.



•Reduced standby power consumption by heating the compressor instead of a crankcase heater. (16/18/20 HP)

#### Unit casing

 Improved static pressure at the exhaust air outlet that allows for a reduction in fan input power by the

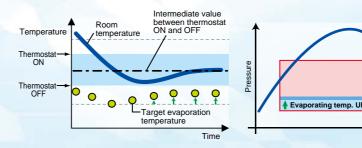


changed shape of the bellmouth hood.

#### Control

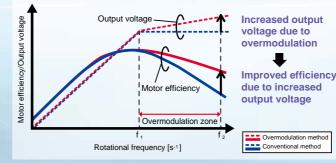
#### •ET control (Evaporating Temperature control)

Reduced energy consumption in cooling by controlling the refrigerant temperature according to the operation load and raising evaporating temperature.

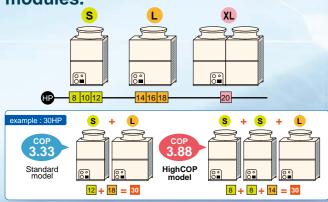


#### Original PWM overmodulation control

Improved total efficiency of motor and inverter with the use of our original PWM overmodulation control, increasing the output voltage during high-load operation (when the motor is rotating at high speed).



90<sup>\*3</sup> Standard or high COP options are available by different combinations of modules.

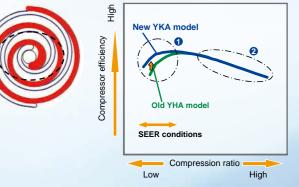


n the height difference is 15m or greater, use the one size larger liquid pipe between the indoor unit and the indoor unit.

When the piping length is 40m or longer, use the one size larger liquid pipe between the indoor unit and the first bra

#### Improved SEER performance

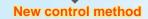
Optimized scroll shape (improved volumetric capacity ratio)



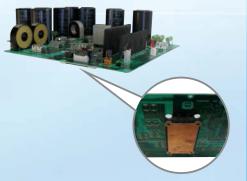
The new bellmouth-shaped hood achieves reduction in fan rotation and increase the pressure at the hood outlet compared to that of the old one resulting in reduced input power to the fan

Current control method

Evaporating temperature was kept constant



Evaporating temperature is raised according to the operation load, decreasing compressor input power and increasing operation efficiency.





# Sophisticated yet simple technology

## Reliable

Designed and manufactured to the highest standards, the CITY MULTI range offers one of the most reliable air conditioning systems available. Simple to install and easy to maintain, this range provides ideal solutions you can trust to protect your investment.





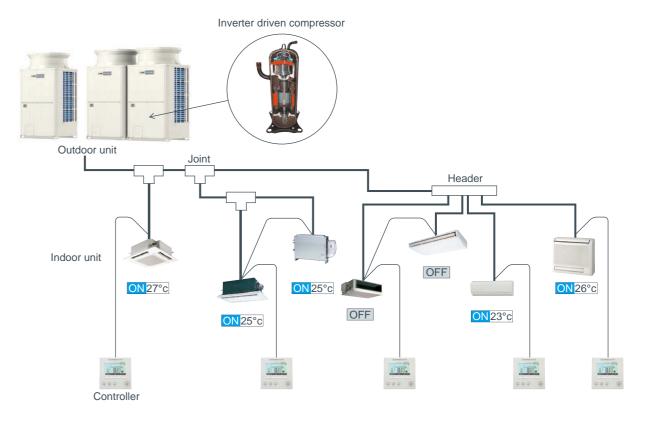
>All the CITY MULTI outdoor units are made under stringent control.

RF system

### Our answer to VRF

Mitsubishi Electric sets the boundaries of VRF technology with the CITY MULTI range, which is available using R410A refrigerant with zero ODP (Ozone Depletion Potential). The range has been specifically designed for today's building requirements and addresses key market issues such as energy efficiency, adaptability and reliability. With user friendly control systems utilizing internet technology and integrated cooling and ventilation indoor units, CITY MULTI is the benchmark and market leader in VRF technology.

VRF is a multi and direct expansion type air conditioning system where by one outdoor unit can be connected with multiples indoor units. The amount of refrigerant can be regulated freely according to the load on the indoor unit by the inverter driven compressor in the outdoor unit. Zoning in a small office is possible with a small capacity indoor unit. Energy conservation is easily handled because individual indoor units can stop and start their operation as needed. There are various indoor units available in order to suit various interior design needs.



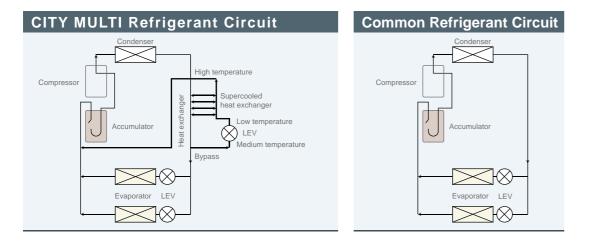




# Unbeatable Efficiency

## **Heat Interchange Circuit**

The unique Heat Interchange Circuit (HIC) enhances efficiency by providing additional sub-cooling and allows the expansion device to effectively control the refrigerant distribution, thereby increasing the operating efficiency and reducing the volume of refrigerant in each system.



## nverter Driven Compressor Technology - now up to 54HP



## Using inverter driven technology saves energy for several reasons:

The compressor varies its speed to match the indoor cooling or heating demand and therefore only consumes the energy that is required.

When an inverter driven system is operating at partial load, the energy efficiency of the system is significantly higher than that of a standard fixed speed, non inverter system.

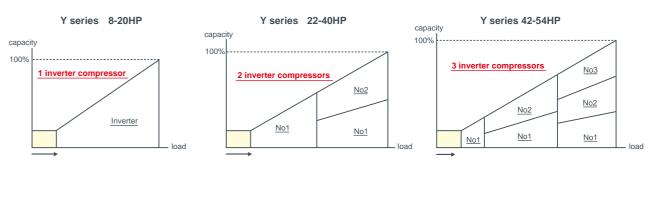
The fixed speed system can only operate at 100%, however, partial load conditions prevail for the majority of the time. Therefore fixed speed systems cannot match the annual efficiencies of inverter driven systems.

Using proven single inverter driven compressor technology, the CITY MULTI range is favored by the industry for low starting currents (only 8 amps for a 16HP YKA/YJM-A outdoor unit), and smooth transition across the range of compressor frequencies.

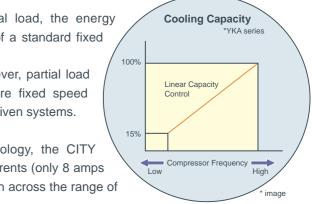
#### All CITY MULTI compressors are inverter-driven type. -Capable of precisely matching a building's cooling and heating demands.

The outdoor unit combinations comprise 1 unit for 8-20HP systems, 2 units for 22-40HP systems and 3 units for 42-54HP systems. Each unit carries one inverter compressor making simple and highly reliable control possible. Not only does it allow low starting currents, the inverter-driven compressor also provides precise indoor comfort and adapts to the air conditioning load.

#### Stable and smooth operation (for standard models)







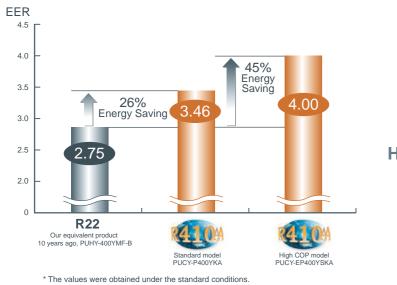
\* The values vary depending on the actual conditions such as ambient temperature.





# **Total Energy Conservation**

#### **Comparison of EER** (Energy Efficiency Ratio) – 16HP system



High EER is realized

## ntelligent Power Module (IPM) Technology

The YKA range from Mitsubishi Electric provides precise control of energy input, through utilization of its Intelligent Power Module (IPM) technology. By employing this technology it is possible to closely match the building requirements, achieving more accurate control of the occupied space. By using incremental 1Hz steps of capacity control, the amount of power input required is significantly reduced, resulting in greatly improved EER's.

In addition, IPM technology ensures effective performance under partial load conditions, a condition that most systems will be in for the majority of the normal working life cycle. By taking account the efficiency at both part load, and peak load conditions, R410A CITY MULTI is designed to provide unbeatable year round/seasonal efficiency.

## The difference between YKA/YHA/YJM-A and previous Mitsubishi Electric models

Technology is key when increased efficiency is demanded.

A highly efficient R410A scroll compressor design results in less friction losses at the motor. A simplified refrigerant circuit (low pressure loss) including a new accumulator design also adds a few more points to the efficiency scale. Enhancements to the heat interchange circuit, an inverter driven fan motor and a heat exchanger design again add vital increases to overall system efficiencies and EERs.

## The importance of EER

EER stands for "Energy Efficiency Ratio". It is a measure of the useful energy a system can deliver compared to the energy it consumes. It is calculated by dividing the energy output by the energy input of a system. The higher the figure then the more efficient the system is deemed to be. Mitsubishi Electric VRF models, the world's highest energy-efficient air-conditioners, will undoubtedly reduce millions of tons of CO<sub>2</sub> emissions.

## The CITY MULTI YKA/YHA/YJM-A range is able to deliver this in simple ways.





# For the Environment

Enhancing environmental care (measures for the RoHS Directive and the refrigerant reduction) Every unit is in compliance with the RoHS Directive,\* which stands for the Restriction of Hazardous Substances: Lead-free soldering is used to avoid Lead Groundwater Contamination on the print board. The amount of refrigerant on the unit has also been reduced to enhance environmental care.

\* RoHS Directive: the restriction of the use of certain hazardous substances in electrical and electronic equipment that has been sold in EU since July 2006

## Efficient R410A refrigerant

## History of refrigerant

R22, an HCFC-based refrigerant, has been a popular choice for most chillers. R22 has been targeted by the Montreal Protocol to be phased out in new equipment. Additionally, governments in many countries are enforcing a ban of HCFC-based refrigerants for new installations.

Because of these restrictions, R410A refrigerants are desirable. R410A is a blend of HFCs, which do not deplete the ozone.

## **Technical aspects of refrigerant**

R410A is a more efficient refrigerant as it has a higher specific heat capacity when compared to R407C or R22. This higher energy carrying capacity allows for smaller pipe sizes, longer pipe runs and reduces the volume of refrigerant within a system. This is a major factor when concerning safety and environmental requirements in the design, manufacture, installation, operation, maintenance and disposal or refrigerating systems.

### **New Design**



New Control Box design

Improvement of reliability and easy maintenance



#### New unit Casing

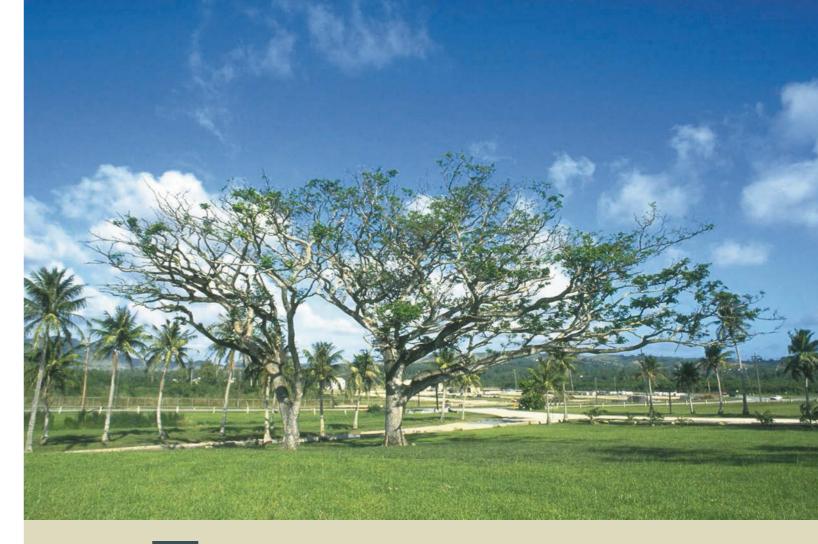
Reduction in fan input power

- <u>New heat exchanger design</u> Improvement of COP

#### New inverter compressor

Improvement of COP





- Cooling-only Series (Y), High COP (Y)
- Heat Pump Series (S)
- Heat Pump Series (Y), High COP (Y)
- Water cooled Heat Pump Series (WY)
- Heat Recovery Series (R2)
- Heat Recovery Series High COP (R2)
- Water Cooled Heat Recovery Series (WR2)
- REPLACE MULTI Series (Y)
- REPLACE MULTI Series (R2)

## S (Heat Pump) series Y (Cooling-only/Heat Pump) series **Cooling-only/Cooling or Heating**



S series - PUMY-P VKM(-BS) PUMY-P YKM(-BS)

PUCY-P YKA(-BS) Y series -PUCY-P YSKA(-BS) -PUHY-P YHA(-BS)

**PUCY-EP YSKA(-BS)** 

PUHY-EP YJM-A(-BS) PUHY-EP YSJM-A(1)(-BS)

## The two-pipe zoned system designed for Heat **Pump Operation**

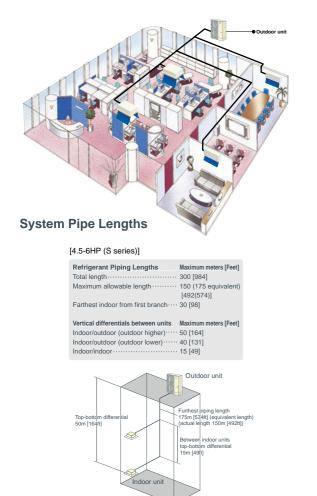
PUHY-P YSHA(-BS)

Large Offices (Y series)

The CITY MULTI S series (for small applications) and Y series (for large applications) make use of a two-pipe refrigerant system, which allows for system changeover from cooling to heating, ensuring that a constant indoor climate is maintained in all zones. The compact outdoor unit utilizes R410A refrigerant and an INVERTER-driven compressor to use energy effectively.

With a wide line-up of indoor units in connection with a flexible piping system, the CITY MULTI series can be configured for all applications. Up to 12 (S series) or 50 (Y series) indoor units can be connected with up to 130% connected capacity to maximize engineer's design options. This feature allows easy air conditioning in each area with convenient individual controllers.

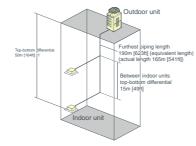
Small Offices (S series)



[8-54HP (Cooling-only Y series)] [16-44HP (Cooling-only High COP Y series)] [8-50HP (Y series)] [8-36HP (High COP Y series)]

| Refrigerant Piping Lengths        | Maximum meters [Fee |
|-----------------------------------|---------------------|
| Total length ······               | 1,000 [3,280]       |
| Maximum allowable length          | 165 (190 equivaler  |
|                                   | [541(623)]          |
| Farthest indoor from first branch | 40 [131]*1          |
|                                   |                     |

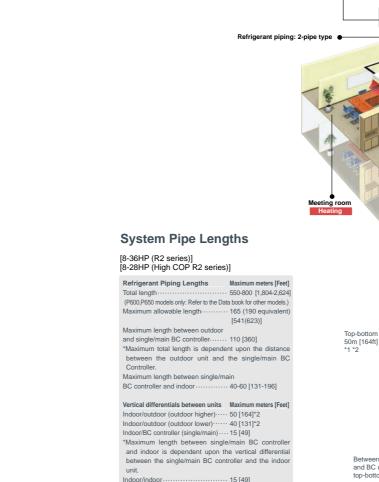
ertical differentials between units ndoor/outdoor (outdoor higher)..... 50 [164]\*3 ndoor/outdoor (outdoor lower).. ... 40 [131]\*3, \*4 15 [49]\*2



1 90m is available. When the piping length is 40m or longer, use the one size larger liquid pipe between the indoor unit and the first branch. [for PUCY-P-Y(S)KA(-BS)/PUCY-EP-YSKA(-BS)] 23 One is available. When the plant defence is 15 on greater, use the one size anger legislation model and and the index initiation for POCY-PY(S)KA(-SS)/PUCY-EPY(SKA(-SS)) \*2 Opending on the model and installation conditions, top-bottom differential 90m [295t] (o'u above) and 60m [196t] (o/u below) is available. For more detailed information, please contact your or distributor. our nearest sales office

\*4 4m or less in cooling at outdoor temperature 10°C or lower for PUHY-P-YHA (-BS) only

Outdoor unit



Installation image (R2 series)

**R2 (Heat Recovery) series** 

## **Simultaneous Cooling and Heating**

-PURY-P YJM-A(-BS) R2 series <sup>1</sup>PURY-P YSJM-A(1)(-BS)

## The world's first two-pipe system that **Simultaneously Cools and Heats**

CITY MULTI R2 series offers the ultimate in freedom and flexibility. Cool one zone while heating another. Our exclusive BC controller makes two-pipe simultaneous cooling and heating possible. The BC controller is the technological heart of the CITY MULTI R2 series. It houses a liquid and gas separator, allowing the outdoor unit to deliver a mixture of hot gas for heating and liquid for cooling, all through the same pipe. This innovation results in virtually no energy wasted by being expelled outdoors. Depending on capacity, up to 50 indoor units can be connected with up to 150% connected capacity



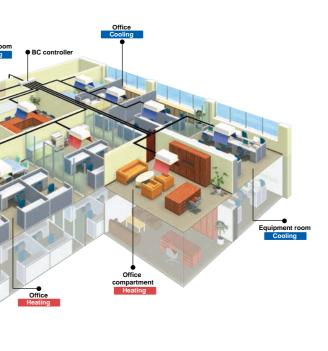
<sup>2</sup> Depending on the model and installation conditions, top-bottom differential 90m [295ft] (o/u above) and 60m [196ft] (o/u below) is available. For more detailed information, please contact your nearest sales office or distributor

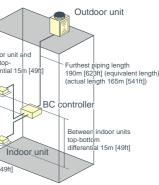
3C controller top

een indoor unit



PURY-EP YJM-A(-BS) PURY-EP YSJM-A(1)(-BS)





## Features in Y (Cooling-only) series

#### **Compact Design** Industry leading weight saving

The manageability of the outdoor unit has been improved due to a drastic reduction in its weight, leading to easy transportation, installation, and reduction in withstand load.



1,490 (58-11/16)

15 (5/8) 1,220 (48-1/16)

14-18HP systems (Y series)

mm (in.)

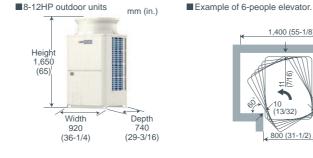
mm (in.)

15 (5/8

1.400 (55-1/8

#### Industry leading space saving

The downsized outdoor unit can be transported through a 800 mm wide door.



-13/16

40 29-3/16

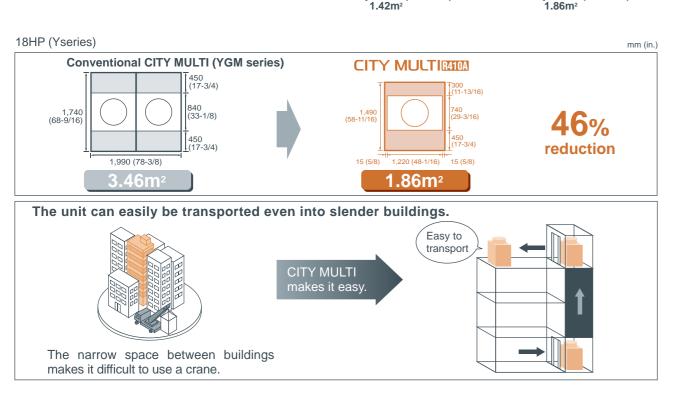
450 (17-3/4)

15 (5/8) 920 (36-1/4) 15 (5/8

8-12HP systems (Y series)

#### **Effective Use of Space**

The new models have a smaller foot print and service space requirement than previous models.



1,49( (58-11/16)

Outdoor unit

#### Low Noise Levels New Fan Design

CITY MULTI VRF systems led the introduction of larger single fan motors some ten years ago, achieving substantially lower noise levels over multiple designs.

Continuing the development in the areas of blade shape and weight, Mitsubishi Electric have managed to achieve even higher performance and lower noise levels. To reduce noise levels further and comply with inner city residential noise regulations, all outdoor units include low noise mode. This function works by lowering the fan speed and compressor frequency proportionally with reduction in demand.

#### **R410A Pipe Sizing**

As R410A has a higher specific heat capacity than R22, the pipework is smaller. This means the pipe itself is cheaper, easier to install and less riser space is required within the building.



Based on 10HP model

#### **Easy Maintenance**

Even when one of the indoor units in the system is under maintenance, the other indoor unit can still operate.

- \* Not applicable to all situations.
- \* Be sure to turn off the power to the indoor unit when repairing or servicing the unit.

#### **System Check**

Ensuring simple and easy maintenance, system tests are available to check wiring, sensors and the refrigerant amount.





The compressor compartment is sealed by metal panels to attain low noise levels in all directions.

#### **Blue Fin Treatment**

The anti-corrosion Blue Fin treatment of the heat exchanger is especially effective in urban environments where the traffic pollutions can damage the aluminum fins reducing the capacity and life expectancy of the unit. All CITY MULTI R410A outdoor units have been treated with Blue Fin.

\*Standard:Anti-corrosion Blue Fin treatment & copper tube. BS type (optional):salt-resistant cross fin & copper tube.





#### **60Pa High Static Pressure** as standard

Y series corresponds to high static pressure of 60Pa, ideal and flexible for any type of application.



## Water Cooled Series



## **Cooling or Heating**

**PQHY-P YHM-A** WY series -**PQHY-P YSHM-A** 

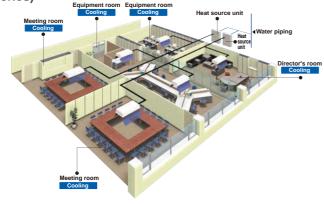
PQRY-P YHM-A WR2 series **PQRY-P YSHM-A** 

#### [WY(Heat Pump) series] Water energy source system allows switching between cooling and heating.

The WY-Series has all the benefits of the Y-Series using water source condensing units.

Condensing units can be situated indoors allowing greater design flexibility and no limitation on building size. Depending on capacity, up to 17 to 50 indoor units can be connected to a single condensing unit with individualized and/or centralized control. The two-pipe system allows all CITY MULTI solutions to switch between cooling and heating while maintaining a constant indoor temperature.

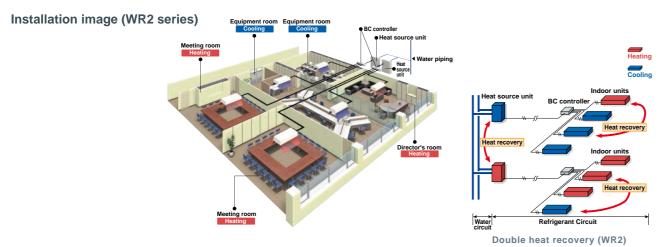
#### Installation image (WY series)



#### [WR2(Heat Recovery) series] Advanced water heat source unit enjoying the benefits of R2 series

The CITY MULTI WR2 series provides all of the advantages of the R2 series with the added advantages of a water heat source system, making it suitable for wider range of applications in high rises, frigid climates, coastal areas, etc.

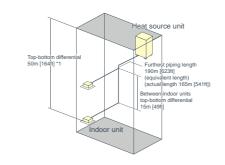
Not only does it produce heat recovery from the indoor units on the same 2-pipe refrigerant circuit, it also produces heat recovery via the water circuit between heat source units, making it a very economical system.



#### Outdoor unit

#### System Pipe Lengths

| 8-36HP (WY series)]  |                                    |
|--|------------------------------------|
| Refrigerant Piping Lengths<br>Total length (8-12HP)        | Maximum meters [Feet]<br>300 [984] |
| Total length (16-36HP)·····                                | 500 [1,640]                        |
| Maximum allowable length                                   | 165 (190equivalent)<br>[541 (623)] |
| Farthest indoor from first branch                          | 40 [131]                           |
| Vertical differentials between units                       | Maximum meters [Feet]              |
| Indoor/heat source (heat source higher) ·····              | 50 [164]                           |
| Indoor/heat source (heat source lower) ····· Indoor/indoor | 40 [131]<br>15 [49]                |
|  |                                    |



\*1 When the outdoor unit is installed below the indoor unit, top-bottom differential is 40m

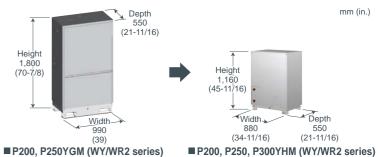
#### **COP** comparison (energy efficiency)

The new water cooled outoor unit offers a greater efficiency with a higher COP compared to our YGM conventional model.

| COP co | mpariso | on      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |
|--------|---------|---------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|
|        |         | HP      | 8    | 10   | 12   | 16   | 18   | 20   | 22   | 24   | 26   | 28   | 30   | 32   | 34   | 36   |
|        | YGM     | Cooling | 4.68 | 4.71 | -    | 3.96 | -    | 3.72 | -    | -    | -    | -    | -    | -    | -    | -    |
| DOUIV  | YGIVI   | Heating | 4.68 | 4.71 | -    | 3.96 | -    | 3.72 | -    | -    | -    | -    | -    | -    | -    | -    |
| PQHY   | VIIM    | Cooling | 5.71 | 5.13 | 4.55 | 5.45 | 5.08 | 4.89 | 4.68 | 4.45 | 5.22 | 5.13 | 4.94 | 4.69 | 4.52 | 4.34 |
|        | YHM     | Heating | 6.06 | 5.43 | 4.60 | 5.78 | 5.37 | 5.22 | 4.70 | 4.46 | 5.52 | 5.33 | 5.19 | 4.82 | 4.65 | 4.40 |
|        | VOM     | Cooling | 4.68 | 4.71 | -    | 3.96 | -    | 3.72 | -    | -    | -    | -    | -    | -    | -    | -    |
| DODV   | YGM     | Heating | 5.33 | 5.43 | -    | 4.54 | -    | 4.63 | -    | -    | -    | -    | -    | -    | -    | -    |
| PQRY   | YHM     | Cooling | 5.65 | 5.08 | 4.50 | 5.40 | 5.03 | 4.84 | 4.63 | 4.41 | -    | -    | -    | -    | -    | -    |
|        | T LINI  | Heating | 6.06 | 5.43 | 4.60 | 5.78 | 5.37 | 5.22 | 4.70 | 4.46 | -    | -    | -    | -    | -    | -    |

#### **Compact design**

Downsized by approximately 57%\*, the new models enable an effective use of space. \*8/10/12HP



#### Weight saving

The reduction in weight leads to easy transportaion and installation.

| Weight          | comparison |    |     |     |     |     |     |     |     |     |     |     |     |     |     | unit : kg |
|-----------------|------------|----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----------|
|                 |            | HP | 8   | 10  | 12  | 16  | 18  | 20  | 22  | 24  | 26  | 28  | 30  | 32  | 34  | 36        |
|                 | YGM        |    | 272 | 275 | -   | 452 | -   | 456 | -   | -   | -   | -   | -   | -   | -   | -         |
| FQIII           | YHM        |    | 195 | 195 | 195 | 390 | 390 | 390 | 390 | 390 | 585 | 585 | 585 | 585 | 585 | 585       |
| DODV            | YGM        |    | 263 | 266 | -   | 440 | -   | 444 | -   | -   | -   | -   | -   | -   | -   | -         |
| PQHY YGM<br>YHM | YHM        |    | 181 | 181 | 181 | 362 | 362 | 362 | 362 | 362 | -   | -   | -   | -   | -   | -         |

#### [8-24HP (WR2 series)]

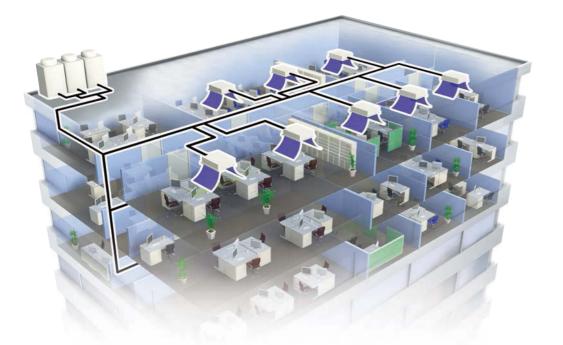
| Refrigerant Piping Lengths           Total length (8-12HP)           Total length (16-24HP)           Maximum allowable length           Maximum length between heat source and single/main BC controller           "Maximum total length is dependent upon the distance between<br>the outdoor unit and the single/main BC controller.           Maximum length between single/main BC controller. |   |
|---|---|
| Vertical differentials between units<br>Indoor/ heat source ( heat source higher) ·····<br>Indoor/ heat source ( heat source lower) ·····<br>Indoor/BC controller (single/main) ·····   | Maximum meters [Feet]<br>50 [164]<br>40 [131]<br>15 [49]<br>15 (10) [49 (32)] |
| Maximum length<br>between hat source<br>and single/main<br>BC controller<br>1<br>1<br>1<br>1<br>1<br>1<br>1<br>1<br>1<br>1<br>1<br>1<br>1<br>1<br>1<br>1<br>1<br>1<br>1   | ngth<br>1)<br>r units   |

1 When the outdoor unit is installed below the indoor unit, top-bottom differential is 40m

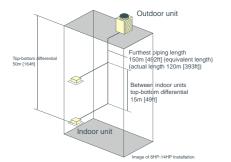


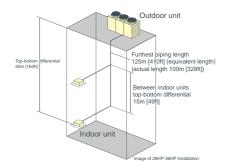
## **REPLACE MULTI series**

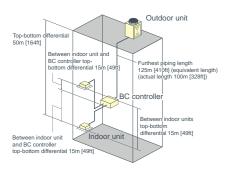




#### **Piping length**

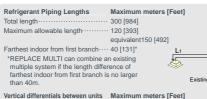




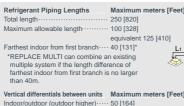


Outdoor unit

#### [8-22HP (Y series)]



#### [24-36HP (Y series)]



25 [410] OU OU IU IU Existing system (L+L2)≤ 40

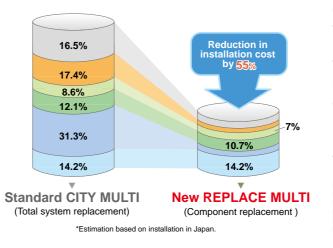
m (L1–L2)≤40

# Vertical differentials between units Maximum meters Indoor/outdoor (outdoor higher) 50 [164] Indoor/induor 104 [131] Indoor/induor 15 [49] Outdoor/outdoor\* 0.1 [0.3] \*\*for models PUHY-RP600-RP900YSJM-A

#### [8-12HP (R2 series)]

| Ľ | -12111 (112 361163)]  |  |
|---|---|--|
|   | Refrigerant Piping Lengths  | 220 [721]  |
| 1 | Vaximum allowable length  | 100 (90) [328 (295)]*<br>equivalent 125 (115) [410 (377)] *                            |
| J | arthest indoor from BC controller   | 30 [98]  |
|   | *Values in ( ) is applied when indoor tota  | al capacity exceeds 130% of outdoor unit capacity                                      |
| 1 | /ertical differentials between units  | Maximum meters [Feet]  |
| I | ndoor/outdoor (outdoor higher) ······   | 50 [164]   |
| I | ndoor/outdoor (outdoor lower) ······  | 40 [131]   |
| l | ndoor/BC controller (single/main)   | 15 (10) [49 (32)]*   |
|   | *Maximum length between single/main<br>vertical differential between the single/  | BC controller and indoor is dependent upon the main BC controller and the indoor unit. |
| l | ndoor/indoor  | 15 (10) [49 (32)]*   |
| l | Vain BC Controller/Sub BC Controller<br>*Values in () is applied when indoor tota | 15 (10) [49 (32)]*<br>al capacity exceeds 130% of outdoor unit capacity                |
|   |   |  |

#### Cost

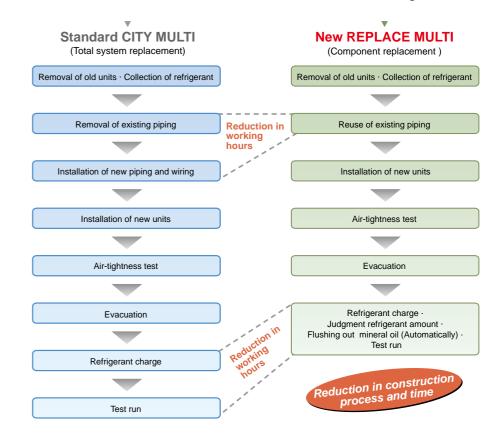


#### Time

#### Short and quick construction process and time

Compared to the installation process and time to install a complete new system, REPLACE MULTI offers shorter and quicker installation.

The key cause of this is because with REPLACE MULTI, without any use of special kit, existing piping can be reused and works at rooftop or walls for new piping are not required. This results in reduced installation time and system downtime which is an attractive factor to minimize the effect on business working hours.



#### Low renewal cost (estimation)

Reduction in waste and time also results in minimized construction work cost by approximately **55%** compared to the conventional total system replacement. (Estimated based on installation in Japan)

The major cutback achieved here is the pipe work costs by reusing existing piping which generally involves demolitions of exterior and interior walls, and rooftops.

Moreover, theses feature add up to not only less labor, materials, lower operating costs, but also reduce costs for waste disposal.

Overhead costs for construction
Costs for construction work
Costs for removal work
Costs for piping work
Costs for piping work
Costs for installation work



# Technology

#### Mineral oil collection

At the core of the new innovative REPLACE MULTI technology to reuse existing piping is the mineral oil collection to clean out the minerals in previously installed pipe work.

Mineral oil collection with Mitsubishi Electric's unique flushing operation is carried out while the new refrigerant is being charged (if the length or diameter of the refrigerant pipe is unknown).

With this advance technology, the cleaning process is completed quickly, thoroughly and automatically to keep the air environment comfortable.

| QUICK &        |   |
|----------------|---|
| AUTOMATIC ··>  | Quick and automatic mineral oil collection with simple step |
| Comfort ·····> | Comfort not interrupted<br>during the process               |



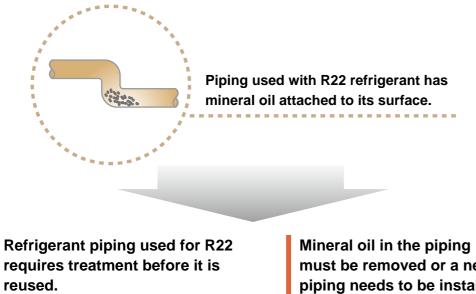
R22 is a single hydrochlorofluorocarbon or HCFC compound known to have ozone depleting potential. R22 has been widely used in Air-Conditioning and Refrigeration equipment; however, virgin R22 refrigerant within the European countries are banned under European legislation driven by the Montreal Protocol.

Patent Technology \*Patented or unpatented varie depending on the countries.



R410A is a binary blend of hydrofluorocarbon or HFC compounds with ZERO ozone depleting potential. R410A is a more energy efficient refrigerant than R22 offering a greater heat transfer, which is one of the key elements to stop global warming.

#### Why mineral oil collection is required.



requires treatment before it is reused.

must be removed or a new piping needs to be installed.

If the mineral oil in new refrigerant R410A refrigerant and R22 refrigerant are mixed, there is a possibility of sludge due to deterioration. When this occurs, mineral oil may not dissolve in the R410A refrigerant and lead to problems in compressor and LEV clogging.

## **Quick & Automatic**

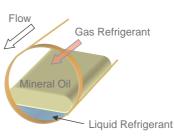
Facts

| 4010  |   |
|---|---|
| Quick and automatic mineral oil collection                      | Mineral oil can be collected in appro<br>* The time varies depending on the pipe leaving<br>Y series Max.120 minutes(cooling<br>R2 series Max.180 minutes(cooling |
| Condition of<br>mineral oil collection<br>(Outdoor temperature) | REPLACE MULTI can clean pipe in<br>Y series -10°C ~ 45°C<br>R2 series - 5 °C ~ 45°C   |
| Density of R410A<br>refrigerant                                 | R410A refrigerant < R22 refrigerant<br>R410A gas refrigerant < mineral oil  |
| Speed   | R410A liquid refrigerant < R410A g  |

#### Principle of mineral oil collection

Mineral oil in R22 system is not soluble to the R410 refrigerant. When R410A two phase refrigerant flows through a pipework, shear force among the mineral oil and R410A refrigerant pushes out and strip off from the mineral oil attached to the piping surface. The mineral oil floats on the surface between gas and liquid refrigerant.





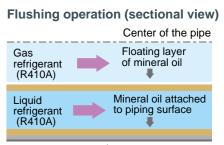
If the refrigerant is 2 phase, liquid refrigerant speed is accelerated by the gas refrigerant flowing at high-speed in the center part of the pipeworks. With this acceleration, the mineral oil floating at the surface of liquid refrigerant also increases its speed and mineral oil collection can be finished smoothly and quickly in the existing refrigerant piping.

| oximately 85~105 minutes.<br>ngth and temperature conditions. |   |
|---|---|
| g) / Max.140 minutes(heating)<br>g)                           | ) |

in winter season.

| t                          |   |
|----------------------------|---|
| < R410A liquid refrigerant |   |
|                            | _ |

gas refrigerant

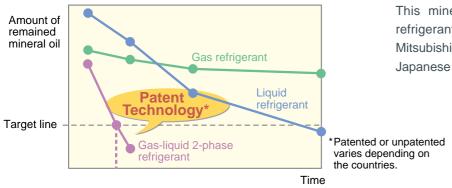


Refrigerant pipe wall



The amount of time required for mineral oil collection differs by the condition of refrigerant. The most effective and quickest result can be expected when 2 phase refrigerant is used.

#### Mineral oil collection speed comparison by refrigerant type



This mineral oil collection with 2 phase refrigerant is a patented technology\* of Mitsubishi Electric and was awarded by the Japanese Institute and Innovation in 2007.

#### Automatic refrigerant charge

Amount of refrigerant required for the system is automatically determined and charged after the mineral oil collection is completed.

### Comfort

Automatically performed by just setting the dip switch, mineral oil collection can even be performed without turning off the air conditioners. Therefore, it can maintain a comfortable indoor air environment, cooling or heating operation with Y series outdoor unit, and cooling operation with R2 series.

\*Only cooling operation with R2 series

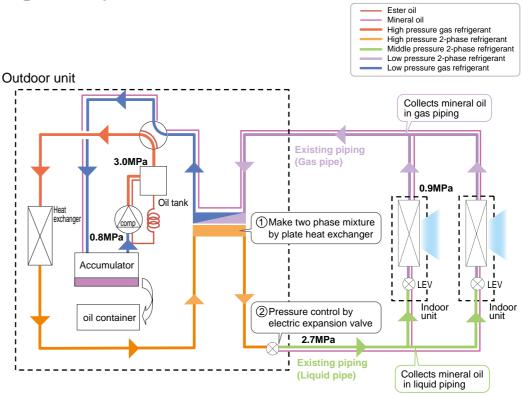
## Mineral oil collection flow

The following shows an overview of the mineral oil collection flow along with the refrigerant flow. During mineral oil collection, with Heat Pump outdoor unit, cooling or heating operation is available, and with Heat Recovery outdoor unit, only cooling operation is available.

Mineral oil in the existing piping is collected along with the new refrigerant flow. At the end of each flow, the refrigerant returns to outdoor unit with mineral oil which is collected in an accumulator and automatically removed to an oil container in the outdoor unit.

#### Example

#### Heat pump Y series outdoor unit (Cooling mode)



First, high pressure gas from the compressor is condensed to 2-phase refrigerant by plate heat exchanger (1) and reduces its pressure to middle pressure 2-phase refrigerant by a LEV(2). It allows 2-phase refrigerant to flow in the existing R22/R407C piping. This 2-phase refrigerant (liquid refrigerant speed is accelerated by gas refrigerant) accelerates to peel off mineral oil in the existing liquid pipe.

refrigerant by an indoor unit LEV to collect mineral oil in the existing gas pipe. Lastly, the refrigerant returns to outdoor unit with mineral oil and heat exchanges to become low pressure gas refrigerant through heat exchanger. Mineral oil in gas refrigerant is separated at accumulator and only gas refrigerant returns to compressor. Mineral oil collected in accumulator is automatically removed to oil container in the outdoor unit.



- Then, middle pressure 2-phase refrigerant reduces its pressure to low pressure 2-phase



# Wide Selection of Outdoor Units

| Sustam        | Туре            |  | HP<br>lodel | 4.5 | 5<br>P125      | 6                               | 8<br>B200 | 10<br>P250      | 12<br><b>P</b> 200 |      |   |         |          |          |          | 24  | 26     | 28       | 30<br>8750     |          |                                    |                           | 38<br>8050 | 40       |                |                | 46                            | 48                       | <b>50</b><br>P1250 |             | 54       |
|---------------|-----------------|--|-------------|-----|----------------|---------------------------------|-----------|-----------------|--------------------|------|---|---------|----------|----------|----------|---|--------|----------|----------------|----------|------------------------------------|---------------------------|------------|----------|----------------|----------------|-------------------------------|--------------------------|--------------------|-------------|----------|
| System        | Туре            | Y series NEW Page31 - Page40   | S           |     | P 123          | P 140                           | 8         |                 | 12                 | P330 | Let a let | 400   1 | -430 F   | _        | 10<br>12 |   | 10     |          |                | F800     | P030                               | <b>P900</b>               | P950       | P1000    | 12<br>12       | 12             | 1130                          | P1200                    | P1230              | P 1300      | P1330    |
|               |                 | PUCY-P YKA(-BS)<br>PUCY-P YSKA(-BS)  |             |     | <br>           | <br> <br> <br> <br> <br> <br>   |           |                 |                    | 14   |   | 16      | 18       |          | 12       |   |        |          | 18             | 16       | 16<br>18                           | 18                        | 18         |          | 12<br>18       | 14             | 14<br>16                      | 16<br>16                 | 16<br>16           | 16<br>18    | 18<br>18 |
|               |                 |  | <br>XL      |     |                |                                 |           |                 |                    |      |   |         |          | 20       |          |   |        |          |                | 16       | 18                                 | 18                        | 20         | 20<br>20 |                | 18             | 16                            | 16                       | 16<br>18           | 18          | 18       |
|               | Cooling<br>only | Y series - High COP NEW Page41 - Page46  | -*1         | -   |                |                                 |           |                 |                    |      |   | 8       |          | 10       |          |   |        |          | 8              | 8        | 10                                 | 10                        | <br>       |          |                |                |                               |                          |                    |             |          |
| Air<br>Cooled |                 | PUCY-EP YSKA(-BS)  | S           |     | <br> <br> <br> |                                 |           | 1<br>1<br>1<br> | <br> <br> <br>     |      |   | 8<br>8  | <u> </u> | 10       |          |   | 12     |          |                |          |                                    | 12                        | 12         | 12       |                | 4              | <br> <br> <br> <br> <br> <br> | <br> <br> <br> <br> <br> |                    | ;<br>       |          |
|               |                 |  | L           |     |                |                                 |           |                 |                    |      |   |         |          |          |          |   | 14     | 14<br>14 | 14             | 14       | 14                                 | 14                        | 14         | 14<br>14 | 14<br>14<br>14 | 14<br>14<br>16 | <br> <br> <br> <br> <br>      | <br> <br> <br> <br> <br> |                    |             |          |
|               |                 |  | XL          | -   |                |                                 |           |                 |                    |      |   |         |          |          |          |   |        |          |                |          |                                    |                           |            |          |                |                |                               |                          |                    | 1           |          |
|               |                 | S series Page47 -<br>PUMY-P VKM(-BS)   | Page48      |     |                |                                 |           |                 |                    |      |   |         |          |          |          |   |        |          |                |          |                                    |                           |            |          |                |                |                               |                          |                    |             |          |
|               |                 | PUMY-P YKM(-BS)  |             | 45  | 5              | 6                               |           |                 |                    |      |   |         |          |          |          |   |        |          |                |          |                                    |                           |            |          |                |                |                               |                          |                    |             |          |
|               |                 | Y series     Page49 - Page56       PUHY-P YHA(-BS)     PUHY-P YSHA(-BS)                  | S           |     |                |                                 | 8         | 10              | 12                 |      |   |         |          | 10<br>10 | 10<br>12 | 10  | 12     |          |                |          |                                    |                           | 10<br>12   | 12<br>12 | 12             |                |                               |                          |                    |             |          |
|               | Heat            |  | L           |     |                |                                 |           |                 |                    | 14   |   | 16      | 18       |          |          | 14  | 14     | 14<br>14 | 14<br>16       | 14<br>18 | 16<br>18                           | 18<br>18                  | 16         | 16       | 14<br>16       | 14<br>14<br>16 | 14<br>14<br>18                | 14<br>16<br>18           | 14<br>18<br>18     |             |          |
|               | Pump            | Y series - High COP     Page57 - Page64       PUHY-EP YJM-A(-BS)     PUHY-EP YSJM-A(-BS) | s           |     |                |                                 | 8         |                 |                    |      |   | 8<br>8  | 8        | 8        |          |   | 8<br>8 | 8<br>8   | 8              | 8        |                                    |                           |            |          |                |                |                               |                          |                    |             |          |
|               |                 |  | *1 L        |     |                |                                 |           | 10              |                    |      |   |         | 10       |          | 10       |   | 10     |          | 10             |          | 10                                 |                           |            |          |                |                |                               |                          |                    |             |          |
|               |                 |  | XL          | -   |                | -1<br> <br> <br> <br> <br> <br> |           |                 | 12                 |      |   |         |          | 12       | 12       | 12<br>12  |        | 12       | 12             | 12<br>12 | 12<br>12                           | 12<br>12<br>12            |            |          |                |                |                               |                          |                    |             |          |
|               |                 | Y series - High COP<br>PUHY-EP YSJM-A1(-BS)  | S           |     |                |                                 |           |                 |                    |      |   |         |          |          |          |   |        | 8        |                |          |                                    |                           |            |          |                |                |                               |                          |                    | ,<br>]<br>] |          |
|               |                 |  | L           |     |                |                                 |           |                 |                    |      |   |         |          | 10<br>10 |          |   |        | 10<br>10 | 10<br>10<br>10 | 10<br>10 |                                    |                           |            |          |                |                |                               |                          |                    |             |          |
|               |                 |  | XL          |     |                |                                 |           |                 |                    |      |   |         |          |          | ·        | ,<br>,<br>,<br>,<br>,<br>,<br>,<br>,<br>,<br>,<br>,<br>,<br>,<br>,<br>,<br>,<br>,<br>,<br>, |        |          | 10             | 12       | <br> <br> <br> <br> <br> <br> <br> | <br>1<br>1<br>1<br>1<br>1 |            |          |                |                |                               |                          |                    |             |          |

\*1. Indicates S, L, XL modules \*2. The circled numbers in the table indicate the horse power, and the combination of S, L, and XL modules.

# Wide Selection of Outdoor Units

|               |                  |  |               |      |      | 100         |             |                  |           |                                       | - 19 A           |                 | 120-10-1        |             | 1           | 1.15             |          | 1.       |              |
|---------------|------------------|--|---------------|------|------|-------------|-------------|------------------|-----------|---------------------------------------|------------------|-----------------|-----------------|-------------|-------------|------------------|----------|----------|--------------|
|               |                  |  | HP            | 8    | 10   | 12          | 14          |                  | 16        | 18                                    | 20               | 22              | 24              | 26          | 28          | 30               | 32       | 34       | 36           |
| System        | Туре             | Model name   | Model         | P200 | P250 | P300        | P350        | 1                | P400      | P450                                  | P500             | P550            | P600            | P650        | P700        | P750             | P800     | P850     | P900         |
|               |                  | R2 series Page71 - Page<br>PURY-P YJM-A(-BS)           | e//           | 8    | 10   | 12          | 1<br>1<br>1 | I<br>I<br>I      |           |                                       | 10 10            | 10 12           | 12 12           | 12          | 12          |                  |          |          |              |
|               |                  | PURY-P YSJM-A(-BS)                                     |               |      |      | 1           | 14          |                  | 16        |                                       |                  | I<br>I<br>I     | I<br>I<br>I     | 14          | 16          | 14 16            | 16 16    | 16       |              |
|               |                  |  |               |      |      |             |             | ı<br>I<br>I      |           |                                       | <br>             | ,<br>,<br>,     | ,<br>,<br>,     |             |             |                  |          |          |              |
|               |                  |  | X             | L    |      | 1           | 1           | 1<br>1<br>1      |           | 18                                    | 1                | 1<br>1<br>1     | 1<br>1<br>1     |             | 1<br>1<br>1 |                  |          | 18       | 18 18        |
|               |                  | R2 series  | 5             | 6    |      |             |             | 1<br>1<br>1      | 88        | 8 10                                  | 8 12             | 1               | 10              |             |             |                  |          |          |              |
|               |                  | PURY-P YSJM-A1(-BS)                                    |               |      |      | <br>+       | <br>        | <br> <br> <br>   |           | <br>                                  | <br>             | <br>            |                 |             |             |                  |          |          |              |
|               |                  |  | L             |      |      | <br> <br>   | <br>        | 1<br>1<br>1      |           |                                       | 1<br>1<br>1<br>1 |                 | 14              |             | 14 14       |                  | 14       |          | <br> <br>    |
|               |                  |  | *1 X          | L    |      |             |             |                  |           |                                       |                  |                 |                 |             |             |                  | 18       |          |              |
| Air<br>Cooled | Heat<br>Recovery | R2 series - High COP Page78 - Page                     | e81           | 8    |      |             |             |                  |           |                                       |                  | 1               | 1               |             |             |                  |          |          |              |
|               |                  | PURY-EP YJM-A(-BS)                                     | e81 S         | • •  |      |             | <br> <br>   | ,<br>,<br>,<br>, | 88        | 8                                     | 8                |                 |                 |             |             |                  |          |          |              |
|               |                  | PURY-EP YSJM-A(-BS)                                    | L             |      | 10   | 12          |             | <br> <br> <br>   |           | 10                                    | 12               | 10 12           | 12 12           | 12          | 1<br>1<br>1 |                  |          |          |              |
|               |                  |  | ×             |      | -+   | 1<br>1<br>1 | 14          | <br>             | I<br>I    |                                       | <br>             | ,<br>,          | <br>            | 14          | 14 14       |                  |          |          | 1<br> <br>   |
|               |                  | and the second second                                  |               |      |      | 1           |             | 1<br>1<br>1      |           |                                       | I<br>I<br>I      | 1               | 1<br>1<br>1     |             |             |                  |          |          |              |
|               |                  | R2 series - High COP<br>PURY-EP YSJM-A1(-BS)           | 5             | 3    |      |             |             | 1<br>1<br>1      |           |                                       |                  |                 |                 |             | 1<br>1<br>1 |                  |          |          |              |
|               |                  |  |               |      | - +  |             |             |                  | †         | — — — — — — — — — — — — — — — — — — — | 10 10            |                 | 10              |             | 1           | 1<br>1<br>1<br>1 |          |          | r  <br> <br> |
|               |                  |  |               |      |      |             |             |                  |           |                                       |                  |                 |                 |             |             |                  |          |          |              |
|               |                  |  | X             | L    |      |             |             |                  |           |                                       |                  |                 | 14              |             |             |                  |          |          |              |
|               |                  | WY series Page65 - Pa<br>PQHY-P YHM-A<br>PQHY-P YSHM-A |               |      |      |             |             |                  |           |                                       |                  |                 |                 |             |             |                  |          |          |              |
|               | Heat             |  |               |      |      |             |             | 1                |           |                                       |                  |                 |                 |             |             |                  |          |          |              |
|               | Pump             |  |               | 8    | 10   | 12          |             | 1<br>1<br>1      | 88        | 8 10                                  | 10 10            | 10 12           | 12 12           | 8810        | 8 10 10     | 10 10 10         | 10 10 12 | 10 12 12 | 12 12 12     |
| Water         |                  | in the second  |               |      |      |             |             | 1<br>1<br>1      |           |                                       |                  | 1<br>1<br>1     | 1<br>1<br>1     |             |             |                  |          |          |              |
| Cooled        |                  | WR2 series Pag   | je82 - Page84 |      |      |             |             | I<br>            |           |                                       |                  |                 |                 |             |             |                  |          |          |              |
|               |                  | PQRY-P YHM-A   | ,             |      |      |             |             | I<br>I<br>I      |           |                                       |                  | I<br>I<br>I     | 1               |             | 1<br>1<br>1 |                  |          |          |              |
|               | Heat<br>Recovery | PQRY-P YSHM-A  |               | 8    | 10   | 12          |             |                  | 88        | 8 10                                  | 10 10            | 10 12           | 12 12           |             |             |                  |          |          |              |
|               |                  | :  |               |      |      |             |             | 1                |           |                                       |                  |                 | 1               |             |             |                  |          |          |              |
| L             |                  |  |               |      |      |             |             |                  |           |                                       |                  | 1               | 1               |             |             | 1<br> <br>       |          |          |              |
|               |                  | REPLACE MULTI Y series Page 85 - Page PUHY-RP YJM-B    | e90           |      |      |             |             |                  |           |                                       |                  | 1               | 1<br> <br> <br> | 1<br>1<br>1 |             | <br> <br>        |          |          |              |
|               | Heat             | PUHY-RP YSJM-B   | S             | 8 8  | 10   | 12          | 14          |                  | 88        | 8 10                                  | 10 10            | 10 12           | 12 12           | 12 14       | 8 10 10     | 10 10 10         | 10 10 12 | 10 12 12 | 12 12 12     |
|               | Pump             |  |               |      |      | 12          | 14          | I<br>I<br>I      | 00        |                                       |                  | 10 12           |                 | 12 14       |             |                  | 101012   | 10 12 12 |              |
| Air           |                  |  |               |      |      |             |             |                  |           |                                       |                  |                 | 1               |             |             |                  |          |          |              |
| Cooled        |                  | REPLACE MULTI R2 series Page                           | e <b>91</b>   |      |      |             |             | <br> <br>        | <br> <br> | <br>                                  |                  | <br> <br>       | 1<br>1          | 1<br>1<br>1 | <br> <br>   | 1<br>1<br>1      |          |          |              |
|               | Heat             | PURY-RP YJM-B  |               |      |      |             |             | 1<br> <br> <br>  |           |                                       |                  | 1               | 1<br> <br>      |             |             |                  |          |          |              |
|               | Heat<br>Recovery | PURY-RP YSJM-B   | L             | . 8  | 10   | 12          |             | 1<br>1<br>1      |           | 1<br>1<br>1                           | 1<br>1<br>1      | 1<br> <br> <br> | 1<br> <br> <br> | I<br>I<br>I | 1<br>       | 1<br>1<br>1      |          |          |              |
|               |                  |  |               |      |      |             |             | <br> <br> <br>   |           | 1                                     | <br> <br>        | <br> <br>       | I<br>I<br>I     | I<br>I<br>I | <br> <br>   | I<br>I<br>I      |          |          |              |
|               |                  |  |               |      |      | 1           |             | 1                | 1         | 1                                     | 1                | 1               | 1               | 1           | 1           | 1                |          |          |              |

\*1. Indicates S, L, XL modules \*2. The circled numbers in the table indicate the horse power, and the combination of S, L, and XL modules.

### ► Specifications



| Model                                  |                                 |                         | PUCY-P200YKA (-BS)   | PUCY-P250YKA (-BS)   | PUCY-P300YKA (-BS)   | PUCY-P350YKA (-BS)   |
|--|---------------------------------|-------------------------|--|--|--|--|
| Power source                           |                                 |                         | 3-phase 4-wire 380-400-415V 50/60Hz  |
| Cooling capacity                       | *1                              | kW                      | 22.4   | 28.0   | 33.5   | 40.0   |
| (Nominal)                              |                                 | kcal/h                  | 20,000   | 25,000   | 30,000   | 35,000   |
| ,                                      | *1                              | BTU / h                 | 76,400   | 95,500   | 114,300  | 136,500  |
|  | Power input                     | kW                      | 5.59   | 7.08   | 8.95   | 10.78  |
|  | Current input                   | Α                       | 9.4-8.9-8.6  | 11.9-11.3-10.9   | 15.1-14.3-13.8   | 18.1-17.2-16.6   |
|  | EER                             | kW / kW                 | 4.00   | 3.95   | 3.74   | 3.71   |
| Cooling capacity                       | *3                              | kW                      | 22.7   | 28.4   | 34.0   | 40.6   |
| Temp. range of                         | Indoor                          | W.B.                    | 15.0~24.0°C (59~75°F)  | 15.0~24.0°C (59~75°F)  | 15.0~24.0°C (59~75°F)  | 15.0~24.0°C (59~75°F)  |
| cooling                                | Outdoor                         | D.B.                    | 10.0~52.0°C (50~126°F)   | 10.0~52.0°C (50~126°F)   | 10.0~52.0°C (50~126°F)   | 10.0~52.0°C (50~126°F)   |
| Indoor unit                            | Total capacity                  |                         | 50~130% of outdoor unit capacity   |
| connectable                            | Model / Quantity                |                         | P15~P250/1~17  | P15~P250/1~21  | P15~P250/1~26  | P15~P250/1~30  |
| Sound pressure le<br>(measured in aneo | vel                             | dB <a></a>              | 57   | 58   | 61   | 61   |
| Refrigerant piping diameter            | Liquid pipe                     | mm (in.)                | 9.52 (3/8) Brazed  | 9.52 (3/8) Brazed (12.7 (1/2)<br>Brazed, farthest length >= 90 m)  | 9.52 (3/8) Brazed (12.7 (1/2)<br>Brazed, farthest length >= 40 m)  | 12.7 (1/2) Brazed  |
|  | Gas pipe                        | mm (in.)                | 22.2 (7/8) Brazed  | 22.2 (7/8) Brazed  | 22.2 (7/8) Brazed  | 28.58 (1-1/8) Brazed   |
| FAN                                    | Type x Quantity                 |                         | Propeller fan x 1  |
|  | Air flow rate                   | m³/min                  | 175  | 175  | 175  | 175  |
|  |                                 | L/s                     | 2,917  | 2,917  | 2,917  | 2,917  |
|  |                                 | cfm                     | 6,179  | 6,179  | 6,179  | 6,179  |
|  | Control, Driving me             | chanism                 | Inverter-control, Direct-driven by motor   |
|  | Motor output                    | kW                      | 0.92 x 1   | 0.92 x 1   | 0.92 x 1   | 0.92 x 1   |
| *2                                     | External static pr              | ess.                    | 0 Pa (0 mmH <sub>2</sub> O)  |
| Compressor                             | Type x Quantity                 |                         | Inverter scroll hermetic compressor  |
|  | Starting method                 |                         | Inverter   | Inverter   | Inverter   | Inverter   |
|  | Motor output kW                 |                         | 5.5  | 6.9  | 8.1  | 10.4   |
|  | Case heater                     | kW                      | _  | _  | _  | _  |
| External finish                        |                                 |                         | Pre-coated galvanized steel sheets<br>(+powder coating for -BS type)<br><munsell 1="" 5y="" 8="" or="" similar=""></munsell> | Pre-coated galvanized steel sheets<br>(+powder coating for -BS type)<br><munsell 1="" 5y="" 8="" or="" similar=""></munsell> | Pre-coated galvanized steel sheets<br>(+powder coating for -BS type)<br><munsell 1="" 5y="" 8="" or="" similar=""></munsell> | Pre-coated galvanized steel sheets<br>(+powder coating for -BS type)<br><munsell 1="" 5y="" 8="" or="" similar=""></munsell> |
| External dimensio                      | n HxWxD                         | mm                      | 1,650 x 920 x 740  | 1,650 x 920 x 740  | 1,650 x 920 x 740  | 1,650 x 1,220 x 740  |
|  |                                 | in.                     | 65 x 36-1/4 x 29-3/16  | 65 x 36-1/4 x 29-3/16  | 65 x 36-1/4 x 29-3/16  | 65 x 48-1/16 x 29-3/16   |
| Protection devices                     | High pressure pro               | otection                | High pressure sensor, High<br>pressure switch at 4.15 MPa<br>(601 psi)   | High pressure sensor, High<br>pressure switch at 4.15 MPa<br>(601 psi)   | High pressure sensor, High<br>pressure switch at 4.15 MPa<br>(601 psi)   | High pressure sensor, High<br>pressure switch at 4.15 MPa<br>(601 psi)   |
|  | Inverter circuit<br>(COMP./FAN) |                         | Over-heat protection,<br>Over-current protection   | Over-heat protection,<br>Over-current protection   | Over-heat protection,<br>Over-current protection   | Over-heat protection,<br>Over-current protection   |
|  | Compressor                      |                         | Over-heat protection   | Over-heat protection   | Over-heat protection   | Over-heat protection   |
| Fan motor                              |                                 | Over-current protection | Over-current protection  | Over-current protection  | Over-current protection  |  |
| Refrigerant                            |                                 |                         | R410A x 5.5 kg (13 lbs)  | R410A x 6.5 kg (15 lbs)  | R410A x 6.5 kg (15 lbs)  | R410A x 11.5 kg (26 lbs)   |
| Net weight                             |                                 | kg (lbs)                | 174 (384)  | 183 (404)  | 201 (444)  | 237 (523)  |
| Heat exchanger                         |                                 |                         | Salt-resistant cross fin & copper tube   |
| Optional parts                         |                                 |                         | Joint: CMY-Y102SS/LS-G2<br>Header: CMY-Y104/108/1010-G   | Joint: CMY-Y102SS/LS-G2<br>Header: CMY-Y104/108/1010-G   | Joint: CMY-Y102SS/LS-G2<br>Header: CMY-Y104/108/1010-G   | Joint: CMY-Y102SS/<br>LS-G2,CMY-Y202S-G2<br>Header: CMY-Y104/108/1010-G  |

# OUTDOOR UNIT Y Series - Cooling-only PUCY-P YKA(-BS)

### ► Specifications

| Model                                  |                     |            | PUCY-P400YKA (-BS)   | PUCY-P450YKA (-BS)   | PUCY-P500YKA (-BS)   |  |
|--|---------------------|------------|--|--|--|--|
| Power source                           |                     |            | 3-phase 4-wire 380-400-415V 50/60Hz  | 3-phase 4-wire 380-400-415V 50/60Hz  | 3-phase 4-wire 380-400-415V 50/60Hz  |  |
| Cooling capacity                       | *1                  | kW         | 44.0   | 48.0   | 56.0   |  |
| (Nominal)                              |                     | kcal/h     | 39,000   | 43,000   | 50,000   |  |
|  | *1                  | BTU / h    | 150,100  | 163,800  | 191,100  |  |
|  | Power input         | kW         | 12.71  | 15.73  | 17.17  |  |
|  | Current input       | A          | 21.4-20.3-19.6   | 26.5-25.2-24.3   | 28.9-27.5-26.5   |  |
|  | EER                 | kW / kW    | 3.46   | 3.05   | 3.26   |  |
| Cooling capacity                       | *3                  | kW         | 44.7   | 48.8   | 56.9   |  |
| Temp. range of                         | Indoor              | W.B.       | 15.0~24.0°C (59~75°F)  | 15.0~24.0°C (59~75°F)  | 15.0~24.0°C (59~75°F)  |  |
| cooling                                | Outdoor             | D.B.       | 10.0~52.0°C (50~126°F)   | 10.0~52.0°C (50~126°F)   | 10.0~52.0°C (50~126°F)   |  |
| Indoor unit                            | Total capacity      |            | 50~130% of outdoor unit capacity   | 50~130% of outdoor unit capacity   | 50~130% of outdoor unit capacity   |  |
| connectable                            | Model / Quantity    |            | P15~P250/1~34  | P15~P250/1~39  | P15~P250/1~43  |  |
| Sound pressure le<br>(measured in anec |                     | dB <a></a> | 63   | 63   | 65   |  |
| Refrigerant piping                     | Liquid pipe         | mm (in.)   | 12.7 (1/2) Brazed  | 15.88 (5/8) Brazed   | 15.88 (5/8) Brazed   |  |
| diameter                               | Gas pipe            | mm (in.)   | 28.58 (1-1/8) Brazed   | 28.58 (1-1/8) Brazed   | 28.58 (1-1/8) Brazed   |  |
| FAN                                    | Type x Quantity     |            | Propeller fan x 1  | Propeller fan x 1  | Propeller fan x 2  |  |
|  | Air flow rate       | m³/min     | 175  | 175  | 320  |  |
|  |                     | L/s        | 2.917  | 2.917  | 5.333  |  |
|  |                     | cfm        | 6.179  | 6.179  | 11.299   |  |
|  | Control, Driving me |            | Inverter-control, Direct-driven by motor   | Inverter-control, Direct-driven by motor   | Inverter-control, Direct-driven by motor   |  |
|  | Motor output        | kW         | 0.92 x 1   | 0.92 x 1   | 0.92 x 2   |  |
| *2                                     | External static pr  | ess.       | 0 Pa (0 mmH <sub>2</sub> O)  | 0 Pa (0 mmH <sub>2</sub> O)  | 0 Pa (0 mmH <sub>2</sub> O)  |  |
| Compressor                             | Type x Quantity     |            | Inverter scroll hermetic compressor  | Inverter scroll hermetic compressor  | Inverter scroll hermetic compressor  |  |
|  | Starting method     |            | Inverter   | Inverter   | Inverter   |  |
|  | Motor output        | kW         | 10.8   | 12.4   | 14.3   |  |
|  | Case heater         | kW         | _  | -  | -  |  |
| External finish                        |                     | I          | Pre-coated galvanized steel sheets<br>(+powder coating for -BS type)<br><munsell 1="" 5y="" 8="" or="" similar=""></munsell> | Pre-coated galvanized steel sheets<br>(+powder coating for -BS type)<br><munsell 1="" 5y="" 8="" or="" similar=""></munsell> | Pre-coated galvanized steel sheets<br>(+powder coating for -BS type)<br><munsell 1="" 5y="" 8="" or="" similar=""></munsell> |  |
| External dimension                     | n HxWxD             | mm         | 1,650 x 1,220 x 740  | 1.650 x 1.220 x 740  | 1,650 x 1,750 x 740  |  |
|  |                     | in.        | 65 x 48-1/16 x 29-3/16   | 65 x 48-1/16 x 29-3/16   | 65 x 68-15/16 x 29-3/16  |  |
| Protection                             | High pressure pr    |            | High pressure sensor.  | High pressure sensor.  | High pressure sensor.  |  |
| devices                                | riigii picaadic pi  | 010011011  | High pressure switch at 4.15 MPa (601 psi)   |  |  |  |
| 4011000                                | Inverter circuit    |            | Over-heat protection.  | Over-heat protection.  | Over-heat protection.  |  |
|  | (COMP./FAN)         |            | Over-current protection  | Over-current protection  | Over-current protection  |  |
|  | Compressor          |            | Over-heat protection   | Over-heat protection   | Over-heat protection   |  |
|  | Fan motor           |            | Over-current protection  | Over-current protection  | Over-current protection  |  |
| Refrigerant                            | Type x original ch  | narge      | R410A x 11.5 kg (26 lbs)   | R410A x 11.5 kg (26 lbs)   | R410A x 11.8 kg (27 lbs)   |  |
| Net weight                             |                     | kg (lbs)   | 237 (523)  | 237 (523)  | 305 (673)  |  |
| Heat exchanger                         |                     |            | Salt-resistant cross fin & copper tube   | Salt-resistant cross fin & copper tube   | Salt-resistant cross fin & copper tube   |  |
| Optional parts                         |                     |            |  | Joint: CMY-Y102SS/LS-G2.CMY-Y202S-G2   |  |  |
|  |                     |            | 00111. 0111-1 10200/L0-02,0111-12020-02  | 00111. 0111-110200/20-02,0111-12020-02   | 00111. 0111-110200/20-02,011-12020-0   |  |

#### Notes:

\*1 Nominal cooling conditions (subject to JIS B8615-2)

|         | Indoor                               | Outdoor          | Pipe length       | Level difference |
|---------|--------------------------------------|------------------|-------------------|------------------|
| Cooling | 27°C DB/19°C WB<br>(81°F DB/66°F WB) | 35°C DB(95°F DB) | 7.5m (24-9/16ft.) | 0m (0ft.)        |

\*2 External static pressure option is available (30Pa, 60Pa / 3.1mmH<sub>2</sub>O, 6.1mmH<sub>2</sub>O).
 \*3 Reference data under condition of Indoor: 27°CD.B./19.5°CW.B. (81°FD.B./67°FW.B.), Outdoor: 35°CD.B. (95°FD.B.)
 \*Due to continuing improvement, above specification may be subject to change without notice.



#### Notes:

| *1 | 1 Nominal cooling conditions (subject to JIS B8615-2) |                                      |                  |   |  |  |  |  |  |
|----|---|--------------------------------------|------------------|---|--|--|--|--|--|
|    |   | Indoor                               | Outdoor          |   |  |  |  |  |  |
|    | Cooling   | 27°C DB/19°C WB<br>(81°F DB/66°F WB) | 35°C DB(95°F DB) | 7 |  |  |  |  |  |

\*2 External static pressure option is available (30Pa, 60Pa / 3.1mmHzO, 6.1mmHzO).
 \*3 Reference data under condition of Indoor: 27°CD.B./19.5°CW.B. (81°FD.B./67°FW.B.), Outdoor: 35°CD.B. (95°FD.B.)
 \*Due to continuing improvement, above specification may be subject to change without notice.

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| Pipe length       | Level difference |
|-------------------|------------------|
| 7.5m (24-9/16ft.) | 0m (0ft.)        |



#### ► Specifications

| Model                                  |                     |            |  | YSKA (-BS)                           |  | YSKA (-BS)   |  | YSKA (-BS)                          |  |
|--|---------------------|------------|--|--------------------------------------|--|--|--|-------------------------------------|--|
| Power source                           |                     |            | 3-phase 4-wire 380   | -400-415V 50/60Hz                    | 3-phase 4-wire 380   | -400-415V 50/60Hz  | 3-phase 4-wire 380   | 3-phase 4-wire 380-400-415V 50/60Hz |  |
| Cooling capacity                       | *1                  | kW         | 61   | 1.5                                  | 68.0   |  | 72   | 2.0                                 |  |
| (Nominal)                              | (Nominal) kcal/h    |            | 52,900   |                                      | 58,500   |  | 61,900   |                                     |  |
|  | *1                  | BTU / h    | 209  | 209,800<br>15.97                     |  | ,000   | 245  | ,700                                |  |
|  | Power input         | kW         | 15   |                                      |  | .79  | 19   | .67                                 |  |
|  | Current input       | A          | 26.9-25  | 5.6-24.6                             | 30.0-28  | 3.5-27.4   | 33.2-3   | 1.5-30.4                            |  |
|  | EER                 | kW / kW    | 3.   | 85                                   | 3.   | 82   | 3.   | .66                                 |  |
| Cooling capacity                       | *3                  | kW         | 62   | 2.5                                  | 69   | 9.1  | 73   | 3.2                                 |  |
| Temp. range of                         | Indoor              | W.B.       | 15.0~24.0°   | C (59~75°F)                          | 15.0~24.0°   | C (59~75°F)  | 15.0~24.0°   | C (59~75°F)                         |  |
| cooling                                | Outdoor             | D.B.       | 10.0~52.0°C  | C (50~126°F)                         | 10.0~52.0°C  | C (50~126°F)   | 10.0~52.0°C  | C (50~126°F)                        |  |
| Indoor unit                            | Total capacity      |            | 50~130% of outo  | door unit capacity                   | 50~130% of outo  | door unit capacity   | 50~130% of out   | door unit capacity                  |  |
| connectable                            | Model / Quantity    |            | P15~P2   | 250/2~47                             | P15~P2   | 50/2~50  | P15~P2   | 250/2~50                            |  |
| Sound pressure le<br>(measured in anec |                     | dB <a></a> | 6  | 3                                    | 6  | 3  | 64   | 4.5                                 |  |
| Refrigerant piping                     |                     | mm (in.)   | 15.88 (5/  | 8) Brazed                            | 15.88 (5/  | 8) Brazed  | 15.88 (5/  | 8) Brazed                           |  |
| diameter                               | Gas pipe            | mm (in.)   |  | /8) Brazed                           |  | /8) Brazed   |  | /8) Brazed                          |  |
| Set Model                              | • • • • • • • •     |            |  |                                      |  |  |  |                                     |  |
| Model                                  |                     |            | PUCY-P250YKA (-BS)   | PUCY-P300YKA (-BS)                   | PUCY-P250YKA (-BS)   | PUCY-P350YKA (-BS)   | PUCY-P250YKA (-BS)   | PUCY-P400YKA (-BS)                  |  |
| FAN                                    | Type x Quantity     |            | Propeller fan x 1  | Propeller fan x 1                    | Propeller fan x 1  | Propeller fan x 1  | Propeller fan x 1  | Propeller fan x 1                   |  |
|  | Air flow rate       | m³/min     | 175  | 175                                  | 175  | 175  | 175  | 175                                 |  |
|  |                     | L/s        | 2,917  | 2,917                                | 2,917  | 2,917  | 2,917  | 2,917                               |  |
|  |                     | cfm        | 6,179  | 6,179                                | 6,179  | 6,179  | 6,179  | 6.179                               |  |
|  | Control, Driving me |            |  | rect-driven by motor                 |  | rect-driven by motor   |  | rect-driven by motor                |  |
|  | Motor output        | kW         | 0.92 x 1   | 0.92 x 1                             | 0.92 x 1   | 0.92 x 1   | 0.92 x 1   | 0.92 x 1                            |  |
| *2                                     |                     | ess.       | 0 Pa (0 mmH <sub>2</sub> O)  | 0 Pa (0 mmH <sub>2</sub> O)          | 0 Pa (0 mmH <sub>2</sub> O)  | 0 Pa (0 mmH <sub>2</sub> O)  | 0 Pa (0 mmH <sub>2</sub> O)  | 0 Pa (0 mmH <sub>2</sub> O)         |  |
| Compressor                             | Type x Quantity     |            |  | metic compressor                     |  | metic compressor   |  | metic compressor                    |  |
|  | Starting method     |            | Inverter   | Inverter                             | Inverter   | Inverter   | Inverter   | Inverter                            |  |
|  | Motor output        | kW         | 6.9  | 8.1                                  | 6.9  | 10.4   | 6.9  | 10.8                                |  |
|  | Case heater         | kW         | _  | _                                    | _  | _  | _  | _                                   |  |
| External finish                        |                     | 1          | Pre-coated galvanized steel sheets<br>(+powder coating for -BS type)<br><munsell 1="" 5y="" 8="" or="" similar=""></munsell> |                                      | Pre-coated galvanized steel sheets<br>(+powder coating for -BS type)<br><munsell 1="" 5y="" 8="" or="" similar=""></munsell> |  | Pre-coated galvanized steel sheets<br>(+powder coating for -BS type)<br><munsell 1="" 5y="" 8="" or="" similar=""></munsell> |                                     |  |
| External dimension                     | n HxWxD             | mm         | 1,650 x 920 x 740  | 1,650 x 920 x 740                    | 1,650 x 920 x 740  | 1,650 x 1,220 x 740  | 1,650 x 920 x 740  | 1,650 x 1,220 x 740                 |  |
|  |                     | in.        | 65 x 36-1/4 x 29-3/16  | 65 x 36-1/4 x 29-3/16                | 65 x 36-1/4 x 29-3/16  | 65 x 48-1/16 x 29-3/16   | 65 x 36-1/4 x 29-3/16  | 65 x 48-1/16 x 29-3/16              |  |
| Protection devices                     | High pressure pr    | otection   |  | ure sensor,<br>at 4.15 MPa (601 psi) | High press<br>High pressure switch   | ure sensor,<br>at 4.15 MPa (601 psi)                               | High pressure sensor,  |                                     |  |
|  | Inverter circuit    |            |  | protection,                          | Over-heat  | protection,  | Over-heat  | protection,                         |  |
|  | (COMP./FAN)         |            | Over-currer  | nt protection                        | Over-currer  | nt protection  | Over-currer  | nt protection                       |  |
|  | Compressor          |            | Over-heat  | protection                           |  | protection   |  | t protection                        |  |
|  | Fan motor           |            |  | nt protection                        |  | nt protection  |  | nt protection                       |  |
| Refrigerant                            | Type x original ch  | narge      | R410A x 6.5 kg (15 lbs)  | R410A x 6.5 kg (15 lbs)              | R410A x 6.5 kg (15 lbs)  | R410A x 11.5 kg (26 lbs)   | R410A x 6.5 kg (15 lbs)  | R410A x 11.5 kg (26 lbs)            |  |
| Net weight                             |                     | kg (lbs)   | 183 (404)  | 201 (444)                            | 183 (404)  | 237 (523)  | 183 (404)  | 237 (523)                           |  |
| Heat exchanger                         |                     |            |  | s fin & copper tube                  |  | s fin & copper tube  |  | s fin & copper tube                 |  |
| Pipe between unit                      |                     | mm (in.)   | 9.52 (3/8) Brazed  | 12.7 (1/2) Brazed                    | 9.52 (3/8) Brazed  | 12.7 (1/2) Brazed  | 9.52 (3/8) Brazed  | 15.88 (5/8) Brazed                  |  |
| and distributor                        | Gas pipe            | mm (in.)   | 22.2 (7/8) Brazed  | 22.2 (7/8) Brazed                    | 22.2 (7/8) Brazed  | 28.58 (1-1/8) Brazed   | 22.2 (7/8) Brazed  | 28.58 (1-1/8) Brazed                |  |
| Optional parts                         |                     |            | Joint: CMY-Y<br>CMY-Y  | 202/302S-G2                          | Joint: CMY-Y<br>CMY-Y2   | kit: CMY-Y100VBK3<br>102SS/LS-G2,<br>202/302S-G2<br>104/108/1010-G | Outdoor Twinning kit: CMY-Y100VBK3<br>Joint: CMY-Y102SS/LS-G2,<br>CMY-Y202/302S-G2<br>Hondor: CMY Y104/10/BC                 |                                     |  |
|  |                     |            | Header: CMY-Y  | 104/108/1010-G                       | Header: CMY-Y  | 104/108/1010-G   | Header: CMY-Y104/108/1010-G  |                                     |  |

OUTDOOR UNIT Y Series - Cooling-only PUCY-P YSKA(-BS)

### ► Specifications

| Model                                  | lodel                      |            | PUCY-P700YSKA (-BS)   |   | PUCY-P750   | YSKA (-BS)                                       | PUCY-P800YSKA (-BS)  |                             |  |
|--|----------------------------|------------|---|---|---|--|--|-----------------------------|--|
| Power source                           |                            |            | 3-phase 4-wire 380  | -400-415V 50/60Hz                               | 3-phase 4-wire 380  | -400-415V 50/60Hz                                | 3-phase 4-wire 380-400-415V 50/60Hz  |                             |  |
| Cooling capacity                       | *1                         | kW         |   | 6.0   |   | .5   |  | 8.0                         |  |
| (Nominal)                              |                            |            |   | 400   | 70,100  |  | 75,700   |                             |  |
|  | *1                         | BTU / h    |   | ,300  |   | ,100   |  | ,300                        |  |
|  | Power input                | kW         | 22  | .47   |   | .47  |  | .43                         |  |
|  | Current input              | A          | 37.9-36   | 6.0-34.7  | 41.3-39   | 9.2-37.8   | 42.9-40  | .7-39.3                     |  |
|  | EER                        | kW / kW    | 3.  | 38  | 3.  | 33   | 3.   | 46                          |  |
| Cooling capacity                       | *3                         | kW         | 77  | 77.2  |   | 2.8  | 89   | ).4                         |  |
| Temp. range of                         | Indoor                     | W.B.       | 15.0~24.0°  | 15.0~24.0°C (59~75°F)                           |   | C (59~75°F)                                      | 15.0~24.0°0  | C (59~75°F)                 |  |
| cooling                                | Outdoor                    | D.B.       | 10.0~52.0°C   | ; (50~126°F)                                    | 10.0~52.0°C   | C (50~126°F)                                     | 10.0~52.0°C  | ; (50~126°F)                |  |
| Indoor unit                            | Total capacity             |            | 50~130% of outo   | loor unit capacity                              | 50~130% of outo   | loor unit capacity                               | 50~130% of outo  | loor unit capacity          |  |
| connectable                            | Model / Quantity           |            | P15~P2  | 50/2~50   | P15~P2  | 50/2~50  | P15~P2   | 50/2~50                     |  |
| Sound pressure le<br>(measured in anec |                            | dB <a></a> | 64  | l.5   | 65  | 5.5  | 6  | 6                           |  |
| Refrigerant piping                     | Liquid pipe                | mm (in.)   | 19.05 (3/   | 4) Brazed                                       | 19.05 (3/-  | 4) Brazed  | 19.05 (3/-   | 4) Brazed                   |  |
| diameter                               | Gas pipe                   | mm (in.)   |   | /8) Brazed                                      | 34.93 (1-3  | /8) Brazed                                       | 34.93 (1-3   |                             |  |
| Set Model                              |                            |            | · · ·   | /   | · · ·   | /  | · · ·  | /                           |  |
| Model                                  |                            |            | PUCY-P250YKA (-BS)  | PUCY-P450YKA (-BS)                              | PUCY-P300YKA (-BS)  | PUCY-P450YKA (-BS)                               | PUCY-P400YKA (-BS)   | PUCY-P400YKA (-BS)          |  |
| FAN                                    | Type x Quantity            |            | Propeller fan x 1   | Propeller fan x 1                               | Propeller fan x 1   | Propeller fan x 1                                | Propeller fan x 1  | Propeller fan x 1           |  |
|  | Air flow rate              | m³/min     | 175   | 175   | 175   | 175  | 175  | 175                         |  |
|  |                            | L/s        | 2,917   | 2,917   | 2,917   | 2,917  | 2,917  | 2,917                       |  |
|  |                            | cfm        | 6,179   | 6,179   | 6,179   | 6,179  | 6,179  | 6,179                       |  |
|  | Control, Driving me        | chanism    | Inverter-control, Dir   | ect-driven by motor                             | Inverter-control, Dir   | ect-driven by motor                              | Inverter-control, Dir  | ect-driven by motor         |  |
|  | Motor output               | kW         | 0.92 x 1  | 0.92 x 1  | 0.92 x 1  | 0.92 x 1   | 0.92 x 1   | 0.92 x 1                    |  |
| *2                                     | External static pr         | ess.       | 0 Pa (0 mmH <sub>2</sub> O)   | 0 Pa (0 mmH <sub>2</sub> O)                     | 0 Pa (0 mmH <sub>2</sub> O)   | 0 Pa (0 mmH <sub>2</sub> O)                      | 0 Pa (0 mmH <sub>2</sub> O)  | 0 Pa (0 mmH <sub>2</sub> O) |  |
| Compressor                             | Compressor Type x Quantity |            | Inverter scroll her   | metic compressor                                | Inverter scroll her   | metic compressor                                 | Inverter scroll her  | metic compressor            |  |
|  | Starting method            |            | Inverter  | Inverter  | Inverter  | Inverter   | Inverter   | Inverter                    |  |
|  | Motor output               | kW         | 6.9   | 12.4  | 8.1   | 12.4   | 10.8   | 10.8                        |  |
|  | Case heater                | kW         | -   | -   | -   | -  | -  | -                           |  |
| External finish                        |                            |            |   | nized steel sheets                              |   | nized steel sheets                               |  | nized steel sheets          |  |
|  |                            |            |   | ng for -BS type)                                | (+powder coating for -BS type)  |  | (+powder coati   |                             |  |
|  |                            |            | <munsell 5y<="" td=""><td></td><td><munsell 5y<="" td=""><td></td><td><munsell 5y<="" td=""><td></td></munsell></td></munsell></td></munsell> |   | <munsell 5y<="" td=""><td></td><td><munsell 5y<="" td=""><td></td></munsell></td></munsell> |  | <munsell 5y<="" td=""><td></td></munsell>  |                             |  |
| External dimension                     | n HxWxD                    | mm         |   | 1,650 x 1,220 x 740                             |   | 1,650 x 1,220 x 740                              |  | 1,650 x 1,220 x 740         |  |
|  |                            | in.        | 65 x 36-1/4 x 29-3/16   | 65 x 48-1/16 x 29-3/16                          | 65 x 36-1/4 x 29-3/16   |  |  |                             |  |
| Protection<br>devices                  | High pressure pro          | otection   |   | ure sensor,<br>at 4.15 MPa (601 psi)            | High press<br>High pressure switch  |  | High press<br>High pressure switch   |                             |  |
|  | Inverter circuit           |            | Over-heat   | protection,                                     | Over-heat   | protection,                                      | Over-heat protection,  |                             |  |
|  | (COMP./FAN)                |            |   | nt protection                                   |   | nt protection                                    |  | nt protection               |  |
|  | Compressor                 |            | Over-heat protection  | Over-heat protection                            | Over-heat protection  | Over-heat protection                             | Over-heat protection   | Over-heat protection        |  |
|  | Fan motor                  |            | Over-currer   | nt protection                                   | Over-currer   | nt protection                                    | Over-currer  | t protection                |  |
| Refrigerant                            | Type x original ch         | narge      | R410A x 6.5 kg (15 lbs)   | R410A x 11.5 kg (26 lbs)                        | R410A x 6.5 kg (15 lbs)   | R410A x 11.5 kg (26 lbs)                         | R410A x 11.5 kg (26 lbs)   | R410A x 11.5 kg (26 lbs)    |  |
| Net weight                             |                            | kg (lbs)   | 183 (404)   | 237 (523)                                       | 201 (444)   | 237 (523)  | 237 (523)  | 237 (523)                   |  |
| Heat exchanger                         |                            |            |   | s fin & copper tube                             |   | s fin & copper tube                              | Salt-resistant cross   | s fin & copper tube         |  |
| Pipe between unit                      |                            | mm (in.)   | 9.52 (3/8) Brazed   | 15.88 (5/8) Brazed                              | 12.7 (1/2) Brazed   | 15.88 (5/8) Brazed                               | 15.88 (5/8) Brazed   | 15.88 (5/8) Brazed          |  |
| and distributor                        | Gas pipe                   | mm (in.)   | 22.2 (7/8) Brazed   | 28.58 (1-1/8) Brazed                            | 22.2 (7/8) Brazed   | 28.58 (1-1/8) Brazed                             | 28.58 (1-1/8) Brazed   |                             |  |
| Optional parts                         |                            |            | Joint: CMY-Y  | it: CMY-Y200VBK2<br>102SS/LS-G2,<br>202/302S-G2 | Joint: CMY-Y1   | xit: CMY-Y200VBK2<br>102SS/LS-G2,<br>202/302S-G2 | Outdoor Twinning kit: CMY-Y200VBK2<br>Joint: CMY-Y102SS/LS-G2,<br>CMY-Y202/302S-G2 |                             |  |
|  |                            |            | Header: CMY-Y   | 104/108/1010-G                                  | Header: CMY-Y   | 104/108/1010-G                                   | Header: CMY-Y104/108/1010-G  |                             |  |

Notes:

\*1 Nominal cooling conditions (subject to JIS B8615-2)

|         | Indoor                               | Outdoor          | Pipe length       | Level difference |
|---------|--------------------------------------|------------------|-------------------|------------------|
| Cooling | 27°C DB/19°C WB<br>(81°F DB/66°F WB) | 35°C DB(95°F DB) | 7.5m (24-9/16ft.) | 0m (0ft.)        |

 \*2 External static pressure option is available (30Pa, 60Pa / 3.1mmH<sub>2</sub>O, 6.1mmH<sub>2</sub>O).
 \*3 Reference data under condition of Indoor: 27°CD.B./19.5°CW.B. (81°FD.B./67°FW.B.), Outdoor: 35°CD.B. (95°FD.B.) \*Due to continuing improvement, above specification may be subject to change without notice



Page 33

Notes:

| *1 | *1 Nominal cooling conditions (subject to JIS B8615-2) |                                      |                  |  |  |  |  |  |  |
|----|--|--------------------------------------|------------------|--|--|--|--|--|--|
|    |  | Indoor                               | Outdoor          |  |  |  |  |  |  |
|    | Cooling  | 27°C DB/19°C WB<br>(81°F DB/66°F WB) | 35°C DB(95°F DB) |  |  |  |  |  |  |

\*2 External static pressure option is available (30Pa, 60Pa / 3.1mmHzO, 6.1mmHzO).
 \*3 Reference data under condition of Indoor: 27°CD.B./19.5°CW.B. (81°FD.B./67°FW.B.), Outdoor: 35°CD.B. (95°FD.B.)
 \*Due to continuing improvement, above specification may be subject to change without notice.

| - |                |         | 1                                   | T                |    |  |  |
|---|----------------|---------|-------------------------------------|------------------|----|--|--|
|   |                |         |                                     | -                |    |  |  |
|   | PUCY-P750YSK   | A (-BS) | PII                                 | CY-P800YSKA (-BS | 3) |  |  |
|   | 4-wire 380-400 |         | 3-phase 4-wire 380-400-415V 50/60Hz |                  |    |  |  |
|   | 81.5           |         | 88.0                                |                  |    |  |  |
|   | 70,100         |         |                                     | 75,700           |    |  |  |

| Pipe length       | Level difference |
|-------------------|------------------|
| 7.5m (24-9/16ft.) | 0m (0ft.)        |



### ► Specifications



| Model                              |                     |                          | PUCY-P850                                 | YSKA (-BS)  | PUCY-P900   | YSKA (-BS)                          |  |
|------------------------------------|---------------------|--------------------------|---|---|---|-------------------------------------|--|
| Power source                       |                     |                          | 3-phase 4-wire 380-400-415V 50/60Hz       |   |   | 3-phase 4-wire 380-400-415V 50/60Hz |  |
| Cooling capacity                   | *                   | 1 kW                     | 92.0                                      |   |   | 96.0                                |  |
| (Nominal)                          |                     | kcal/h                   |   | 100   | 82.600  |                                     |  |
| (i torrinidi)                      | *                   | 1 BTU / h                | - /                                       | ,900  | -   | .600                                |  |
|                                    | Power input         | kW                       |   | .37   | -   | .47                                 |  |
|                                    | Current input       | A                        |   | 5.4-43.8  | -   | ).4-48.6                            |  |
|                                    | EER                 | kW / kW                  | -   | 24  |   | 05                                  |  |
| Cooling capacity                   | *                   |                          |   | 3.5   |   | 7.6                                 |  |
| Temp. range of                     | Indoor              | W.B.                     |   | C (59~75°F)   |   | C (59~75°F)                         |  |
| cooling                            | Outdoor             | D.B.                     |   | C (50~126°F)  |   | C (50~126°F)                        |  |
| Indoor unit                        | Total capacity      | D.D.                     |   | door unit capacity  |   | door unit capacity                  |  |
| connectable                        | Model / Quantity    | ,                        |   | 50/2~50   |   | 250/2~50                            |  |
| Sound pressure                     |                     | /                        | F IJ~F2                                   | .30/2~30  | F I J~F 2   | .50/2~50                            |  |
| (measured in and                   | echoic room)        | dB <a></a>               | -   | 6   |   | 6                                   |  |
| Refrigerant pipin                  |                     | mm (in.)                 |   | 4) Brazed   |   | 4) Brazed                           |  |
| diameter                           | Gas pipe            | mm (in.)                 | 41.28 (1-5                                | i/8) Brazed   | 41.28 (1-5  | 6/8) Brazed                         |  |
| Set Model                          |                     |                          |   |   |   |                                     |  |
| Model                              |                     |                          | PUCY-P400YKA (-BS)                        | PUCY-P450YKA (-BS)  | PUCY-P450YKA (-BS)  | PUCY-P450YKA (-BS)                  |  |
| FAN                                | Type x Quantity     |                          | Propeller fan x 1                         | Propeller fan x 1   | Propeller fan x 1   | Propeller fan x 1                   |  |
|                                    | Air flow rate       | m³/min                   | 175                                       | 175   | 175   | 175                                 |  |
|                                    |                     | L/s                      | 2,917                                     | 2,917   | 2,917   | 2,917                               |  |
|                                    |                     | cfm                      | 6,179                                     | 6,179   | 6,179   | 6,179                               |  |
|                                    | Control, Driving m  | echanism                 | Inverter-control, Dir                     | rect-driven by motor  | Inverter-control, Di  | rect-driven by motor                |  |
|                                    | Motor output        | kW                       | 0.92 x 1                                  | 0.92 x 1  | 0.92 x 1  | 0.92 x 1                            |  |
| *                                  | 2 External static p | ress.                    | 0 Pa (0 mmH <sub>2</sub> O)               | 0 Pa (0 mmH <sub>2</sub> O)                                 | 0 Pa (0 mmH <sub>2</sub> O)   | 0 Pa (0 mmH <sub>2</sub> O)         |  |
| Compressor                         | Type x Quantity     |                          | Inverter scroll hermetic compressor       |   | Inverter scroll her   | metic compressor                    |  |
| ·                                  | Starting method     |                          | Inverter                                  | Inverter  | Inverter  | Inverter                            |  |
|                                    | Motor output        | kW                       | 10.8                                      | 12.4  | 12.4  | 12.4                                |  |
|                                    | Case heater         | kW                       | _   | _   | _   | _                                   |  |
| External finish                    |                     | 1                        | Pre-coated galvanized steel sheets        |   | Pre-coated galvanized steel sheets  |                                     |  |
|                                    |                     |                          |   | ing for -BS type)   | (+powder coating for -BS type)  |                                     |  |
|                                    |                     |                          |   | 8/1 or similar>   |   | 8/1 or similar>                     |  |
| External dimensi                   | on HxWxD            | mm                       | 1,650 x 1,220 x 740                       | 1,650 x 1,220 x 740   | 1,650 x 1,220 x 740   | 1.650 x 1.220 x 740                 |  |
|                                    |                     | in.                      | 65 x 48-1/16 x 29-3/16                    | 65 x 48-1/16 x 29-3/16                                      | 65 x 48-1/16 x 29-3/16  | 65 x 48-1/16 x 29-3/16              |  |
| Protection                         | High pressure p     | rotection                | High pressure sensor. High press          | sure switch at 4.15 MPa (601 psi)                           |   | sure switch at 4,15 MPa (601 ps     |  |
| devices                            | Inverter circuit    |                          | Over-heat protection,                     | Over-heat protection,                                       | Over-heat protection,   | Over-heat protection,               |  |
|                                    | (COMP./FAN)         |                          | Over-current protection                   | Over-current protection                                     | Over-current protection   | Over-current protection             |  |
|                                    | Compressor          |                          | Over-heat protection                      | Over-heat protection  | Over-heat protection  | Over-heat protection                |  |
|                                    | Fan motor           |                          | Over-current protection                   | Over-current protection                                     | Over-current protection   | Thermal switch                      |  |
| Refrigerant Type x original charge |                     | R410A x 11.5 kg (26 lbs) | R410A x 11.5 kg (26 lbs)                  | R410A x 11.5 kg (26 lbs)                                    | R410A x 11.5 kg (26 lbs)  |                                     |  |
| Net weight                         | 1. Jpo A original o | kg (lbs)                 | 237 (523)                                 | 237 (523)   | 237 (523)   | 237 (523)                           |  |
| Heat exchanger                     |                     | 1.9 (                    |   | s fin & copper tube   |   | s fin & copper tube                 |  |
| Pipe between un                    | it Liquid pipe      | mm (in.)                 | 15.88 (5/8) Brazed                        | 15.88 (5/8) Brazed  | 15.88 (5/8) Brazed  | 15.88 (5/8) Brazed                  |  |
| and distributor                    | Gas pipe            | mm (in.)                 | 28.58 (1-1/8) Brazed                      | 28.58 (1-1/8) Brazed  | 28.58 (1-1/8) Brazed  | 28.58 (1-1/8) Brazed                |  |
| Optional parts                     |                     |                          | Outdoor Twinning<br>Joint: CMY-Y102SS/LS- | kit: CMY-Y200VBK2<br>G2, CMY-Y202/302S-G2<br>104/108/1010-G | 28.58 (1-1/8) Brazed 28.58 (1-1/8) Brazed<br>Outdoor Twinning kit: CMY-Y200VBK2<br>Joint: CMY-Y102SS/LS-G2, CMY-Y202/302S-G2<br>Header: CMY-Y104/108/1010-G |                                     |  |

# OUTDOOR UNIT Y Series - Cooling-only PUCY-P YSKA(-BS)

## ► Specifications

| Model              |                      |            | PUCY-P950  | YSKA (-BS)   | PUCY-P100  | 0YSKA (-BS)  |  |
|--------------------|----------------------|------------|--|--|--|--|--|
| Power source       |                      |            | 3-phase 4-wire 380   | -400-415V 50/60Hz  | 3-phase 4-wire 380   | 3-phase 4-wire 380-400-415V 50/60Hz  |  |
| Cooling capacity   | *1                   | kW         | 104.0  |  | 112.0  |  |  |
| (Nominal) kcal/h   |                      | 89.        | 400  | 96.  | 300  |  |  |
|                    | *1                   | BTU / h    | 354  | .800   | 382  | .100   |  |
|                    | Power input          | kW         |  | .13  |  | .88  |  |
|                    | Current input        | A          |  | ).3-54.3   |  | 2.3-60.1   |  |
|                    | EER                  | kW / kW    |  | 96   |  | 88   |  |
| Cooling capacity   | *3                   |            |  | 5.7  |  | 3.9  |  |
| Temp. range of     | Indoor               | W.B.       | 15.0~24.0°   |  | 15.0~24.0°   |  |  |
| cooling            | Outdoor              | D.B.       |  | (50~126°F)   |  | C (50~126°F)   |  |
| Indoor unit        | Total capacity       | D.D.       |  | loor unit capacity   |  | door unit capacity   |  |
| connectable        | Model / Quantity     |            |  | 50/2~50  |  | 250/2~50   |  |
| Sound pressure le  |                      |            | F 15~F2  | 30/2~30  | F 15~F2  | 30/2~30  |  |
| (measured in anec  | choic room)          | dB <a></a> |  | 7.5  | -  | 8  |  |
| Refrigerant piping |                      | mm (in.)   |  | 4) Brazed  |  | 4) Brazed  |  |
| diameter           | Gas pipe             | mm (in.)   | 41.28 (1-5   | /8) Brazed   | 41.28 (1-5   | i/8) Brazed  |  |
| Set Model          |                      |            |  |  |  |  |  |
| Model              |                      |            | PUCY-P450YKA (-BS)   | PUCY-P500YKA (-BS)   | PUCY-P500YKA (-BS)   | PUCY-P500YKA (-BS)   |  |
| FAN                | Type x Quantity      |            | Propeller fan x 1  | Propeller fan x 2  | Propeller fan x 2  | Propeller fan x 2  |  |
|                    | Air flow rate        | m³/min     | 175  | 320  | 320  | 320  |  |
|                    |                      | L/s        | 2,917  | 5,333  | 5,333  | 5,333  |  |
|                    |                      | cfm        | 6,179  | 11,299   | 11,299   | 11,299   |  |
|                    | Control, Driving me  | chanism    | Inverter-control, Dir  | ect-driven by motor  | Inverter-control, Dir  | rect-driven by motor   |  |
|                    | Motor output         | kW         | 0.92 x 1   | 0.92 x 2   | 0.92 x 2   | 0.92 x 2   |  |
| *2                 | External static pr   | ess.       | 0 Pa (0 mmH <sub>2</sub> O)  | 0 Pa (0 mmH <sub>2</sub> O)  | 0 Pa (0 mmH <sub>2</sub> O)  | 0 Pa (0 mmH2O)   |  |
| Compressor         | Type x Quantity      |            | Inverter scroll her  | metic compressor   | Inverter scroll her  | metic compressor   |  |
|                    | Starting method      |            | Inverter   | Inverter   | Inverter   | Inverter   |  |
|                    | Motor output         | kW         | 12.4   | 14.3   | 14.3   | 14.3   |  |
|                    | Case heater          | kW         | -  | _  | _  | -  |  |
| External finish    |                      | 1          | Pre-coated galvanized steel sheets<br>(+powder coating for -BS type)<br><munsell 1="" 5y="" 8="" or="" similar=""></munsell> |  | Pre-coated galvanized steel sheets<br>(+powder coating for -BS type)<br> |  |  |
| External dimension | n HxWxD              | mm         | 1,650 x 1,220 x 740  | 1,650 x 1,750 x 740  | 1,650 x 1,750 x 740  | 1,650 x 1,750 x 740  |  |
|                    |                      | in.        | 65 x 48-1/16 x 29-3/16   | 65 x 68-15/16 x 29-3/16  | 65 x 68-15/16 x 29-3/16  | 65 x 68-15/16 x 29-3/16  |  |
| Protection         | High pressure pr     | otection   | High pressure sensor. High press   | sure switch at 4.15 MPa (601 psi)  | High pressure sensor, High press   | sure switch at 4.15 MPa (601 psi   |  |
| devices            | Inverter circuit (CO |            |  | Over-current protection  |  | Over-current protection  |  |
|                    | Compressor           | . /        | Over-heat protection   | Over-heat protection   | Over-heat protection   | Over-heat protection   |  |
|                    | Fan motor            |            | Over-current protection  | Over-current protection  | Over-current protection  | Over-current protection  |  |
| Refrigerant        | Type x original ch   | narge      | R410A x 11.5 kg (26 lbs)   | R410A x 11.8 kg (27 lbs)   | R410A x 11.8 kg (27 lbs)   | R410A x 11.8 kg (27 lbs)   |  |
| Net weight         | Type x original of   | kg (lbs)   | 237 (523)  | 305 (673)  | 305 (673)  | 305 (673)  |  |
| Heat exchanger     |                      |            |  | s fin & copper tube  |  | s fin & copper tube  |  |
| Pipe between unit  | Liquid pipe          | mm (in.)   | 15.88 (5/8) Brazed   | 15.88 (5/8) Brazed   | 15.88 (5/8) Brazed   | 15.88 (5/8) Brazed   |  |
| and distributor    | Gas pipe             | mm (in.)   |  |  | 28.58 (1-1/8) Brazed   |  |  |
| Optional parts     | 1.000 kiko           |            | Outdoor Twinning I<br>Joint: CMY-Y102SS/LS-  | 28.58 (1-1/8) Brazed 28.58 (1-1/8) Brazed<br>Outdoor Twinning kit: CMY-Y200VBK2<br>Joint: CMY-Y102S/LS-G2, CMY-Y202/302S-G2<br>Header: CMY-Y104/108/1010-G |  | 28.58 (1-1/8) Brazed 28.58 (1-1/8) Brazed<br>Outdoor Twinning kit: CMVY-Y200VBK2<br>Joint: CMY-Y102SS/LS-G2, CMY-Y202/302S-G2<br>Header: CMY-Y104/108/1010-G |  |

Notes:

\*1 Nominal cooling conditions (subject to JIS B8615-2)

|         | Indoor                               | Outdoor          | Pipe length       | Level difference |
|---------|--------------------------------------|------------------|-------------------|------------------|
| Cooling | 27°C DB/19°C WB<br>(81°F DB/66°F WB) | 35°C DB(95°F DB) | 7.5m (24-9/16ft.) | 0m (0ft.)        |

 \*2 External static pressure option is available (30Pa, 60Pa / 3.1mmH<sub>2</sub>O, 6.1mmH<sub>2</sub>O).
 \*3 Reference data under condition of Indoor: 27°CD.B./19.5°CW.B. (81°FD.B./67°FW.B.), Outdoor: 35°CD.B. (95°FD.B.) \*Due to continuing improvement, above specification may be subject to change without notice



Notes:

| *1 | Nominal cooling co | nditions (subject to JIS B861        | 15-2)            |  |
|----|--------------------|--------------------------------------|------------------|--|
|    |                    | Indoor                               | Outdoor          |  |
|    | Cooling            | 27°C DB/19°C WB<br>(81°F DB/66°F WB) | 35°C DB(95°F DB) |  |

\*2 External static pressure option is available (30Pa, 60Pa / 3.1mmHzO, 6.1mmHzO).
 \*3 Reference data under condition of Indoor: 27°CD.B./19.5°CW.B. (81°FD.B./67°FW.B.), Outdoor: 35°CD.B. (95°FD.B.)
 \*Due to continuing improvement, above specification may be subject to change without notice.

| 1 |    |    |    |
|---|----|----|----|
|   | -= | -= | -= |
|   |    |    |    |
|   | 15 |    |    |

| Pipe length       | Level difference |
|-------------------|------------------|
| 7.5m (24-9/16ft.) | 0m (0ft.)        |



### ► Specifications

| Model                 |                      |            | P  | UCY-P1050YSKA (-B   | S)                          | P  | UCY-P1100YSKA (-B  | S)                          |
|-----------------------|----------------------|------------|--|---|-----------------------------|--|--|-----------------------------|
| Power source          |                      |            |  | 4-wire 380-400-415V   |                             |  | 4-wire 380-400-415V  |                             |
| Cooling capacity      | *1                   | kW         |  | 115.0   |                             |  | 121.5  |                             |
| (Nominal)             |                      | kcal/h     |  | 98,900  |                             | 104,500  |  |                             |
| (Horninal)            | *1                   | BTU / h    |  | 392,400   |                             |  | 414.600  |                             |
|                       | Power input          | kW         |  | 33.39   |                             |  | 35.21  |                             |
|                       | Current input        | A          |  | 56.3-53.5-51.6  |                             |  | 59.4-56.4-54.4   |                             |
|                       | EER                  | kW / kW    |  | 3.44  |                             |  | 3.45   |                             |
| Cooling capacity      | *3                   |            |  | 116.9   |                             |  | 123.5  |                             |
| Temp. range of        | Indoor               | W.B.       |  | 15.0~24.0°C (59~75°F  | )                           |  | 15.0~24.0°C (59~75°F   | :)                          |
| cooling               | Outdoor              | D.B.       |  | 0.0~52.0°C (50~126°F  |                             |  | 10.0~52.0°C (50~126°l  |                             |
| Indoor unit           | Total capacity       | D.D.       |  | 30% of outdoor unit ca  |                             |  | 30% of outdoor unit ca   |                             |
| connectable           | Model / Quantity     |            | 50~1   | P15~P250/2~50   | pacity                      | JU~1   | P15~P250/2~50  | ipacity                     |
|                       |                      |            |  | F15~F250/2~50   |                             |  | F15~F250/2~50  |                             |
| Sound pressure le     |                      | dB <a></a> |  | 66.5  |                             |  | 66.5   |                             |
| (measured in ane      |                      |            |  | 40.05 (0/4) Decend  |                             |  | 40.05 (0(4) Danas d  |                             |
| Refrigerant piping    |                      | mm (in.)   |  | 19.05 (3/4) Brazed  |                             |  | 19.05 (3/4) Brazed   |                             |
| diameter<br>Set Model | Gas pipe             | mm (in.)   |  | 41.28 (1-5/8) Brazed  |                             |  | 41.28 (1-5/8) Brazed   |                             |
| Model                 |                      |            |  |   |                             |  |  |                             |
|                       | Tura v Ovartitu      |            |  |   |                             |  |  | PUCY-P450YKA (-BS)          |
| FAN                   | Type x Quantity      | 24 :       | Propeller fan x 1  | Propeller fan x 1   | Propeller fan x 1           | Propeller fan x 1                                    | Propeller fan x 1  | Propeller fan x 1           |
|                       | Air flow rate        | m³/min     | 175  | 175   | 175                         | 175  | 175  | 175                         |
|                       |                      | L/s        | 2,917  | 2,917   | 2,917                       | 2,917  | 2,917  | 2,917                       |
|                       |                      | cfm        | 6,179  | 6,179   | 6,179                       | 6,179  | 6,179  | 6,179                       |
|                       | Control, Driving me  |            |  | control, Direct-driven b  | · ·                         |  | -control, Direct-driven  | 1                           |
|                       | Motor output         | kW         | 0.92 x 1   | 0.92 x 1  | 0.92 x 1                    | 0.92 x 1   | 0.92 x 1   | 0.92 x 1                    |
| *2                    | External static pr   | ess.       | 0 Pa (0 mmH <sub>2</sub> O)  | 0 Pa (0 mmH <sub>2</sub> O)   | 0 Pa (0 mmH <sub>2</sub> O) | 0 Pa (0 mmH <sub>2</sub> O)                          | 0 Pa (0 mmH <sub>2</sub> O)  | 0 Pa (0 mmH <sub>2</sub> O) |
| Compressor            | Type x Quantity      |            | Inverte  | er scroll hermetic comp   | ressor                      | Inverte  | er scroll hermetic com   | pressor                     |
|                       | Starting method      |            | Inverter   | Inverter  | Inverter                    | Inverter   | Inverter   | Inverter                    |
|                       | Motor output         | kW         | 8.1  | 8.1   | 12.4                        | 8.1  | 10.4   | 12.4                        |
|                       | Case heater          | kW         | -  | -   | -                           | -  | -  | -                           |
| External finish       | •                    |            | Pre-co   | ated galvanized steel   | sheets                      | Pre-co   | bated galvanized steel   | sheets                      |
|                       |                      |            | (+pc   | wder coating for -BS t  | ype)                        | (+powder coating for -BS type)                       |  |                             |
|                       |                      |            | <mu< td=""><td>JNSELL 5Y 8/1 or simi</td><td>lar&gt;</td><td colspan="3"><munsell 1="" 5y="" 8="" or="" similar=""></munsell></td></mu<> | JNSELL 5Y 8/1 or simi   | lar>                        | <munsell 1="" 5y="" 8="" or="" similar=""></munsell> |  |                             |
| External dimension    | n HxWxD              | mm         | 1,650 x 920 x 740  | 1,650 x 920 x 740   | 1,650 x 1,220 x 740         | 1,650 x 920 x 740                                    | 1,650 x 1,220 x 740  | 1,650 x 1,220 x 740         |
|                       |                      | in.        | 65 x 36-1/4 x 29-3/16  | 65 x 36-1/4 x 29-3/16   | 65 x 48-1/16 x 29-3/16      | 65 x 36-1/4 x 29-3/16                                | 65 x 48-1/16 x 29-3/16   | 65 x 48-1/16 x 29-3/16      |
| Protection            | High pressure pr     | otection   | High pressure sensor   | High pressure switch  | at 4.15 MPa (601 psi)       | High pressure sensor                                 | , High pressure switch   | at 4.15 MPa (601 psi)       |
| devices               | Inverter circuit (CO | MP./FAN)   | Over-heat p  | protection, Over-curren   | t protection                | Over-heat  | protection, Over-currer  | nt protection               |
|                       | Compressor           |            |  | Over-heat protection  | •                           |  | Over-heat protection   |                             |
| Fan motor             |                      | (          | Over-current protection  | n   |                             | Over-current protection                              | n  |                             |
| Refrigerant           | Type x original ch   | narge      | R410A x 6.5 kg (15 lbs)  | R410A x 6.5 kg (15 lbs) R410A x 6.5 kg (15 lbs) R410A x 11.5 kg (26 lbs) I  |                             |  |  | R410A x 11.5 kg (26 lbs)    |
| Net weight            |                      | kg (lbs)   | 201 (444)  | 201 (444)   | 237 (523)                   | 201 (444)  | 237 (523)  | 237 (523)                   |
| Heat exchanger        |                      |            | Salt-res   | sistant cross fin & copp  | er tube                     | Salt-re:   | sistant cross fin & cop  | per tube                    |
| Pipe between unit     | Liquid pipe          | mm (in.)   | 12.7 (1/2) Brazed  | 12.7 (1/2) Brazed   | 15.88 (5/8) Brazed          | 12.7 (1/2) Brazed                                    | 12.7 (1/2) Brazed  | 15.88 (5/8) Brazed          |
| and distributor       | Gas pipe             | mm (in.)   | 22.2 (7/8) Brazed  | 22.2 (7/8) Brazed   | 28.58 (1-1/8) Brazed        | 22.2 (7/8) Brazed                                    |  | 28.58 (1-1/8) Brazed        |
| Optional parts        |                      | /          | Joint: CMY-Y   | 22.2 (1/6) Biazed 22.2 (1/6) Biazed 20.36 (1-1/6) Biazed<br>Outdoor Twinning kit: CMY-Y300VBK3<br>Joint: CMY-Y102S/LS-G2, CMY-Y202/302S-G2<br>Header: CMY-Y104/108/1010-G |                             | Outdoo<br>Joint: CMY-Y                               | Outdoor Twinning kit: CMY-Y300VBK3<br>Joint: CMY-Y102SS/LS-G2, CMY-Y202/302S-G2<br>Header: CMY-Y104/108/1010-G |                             |

# OUTDOOR UNIT Y Series - Cooling-only PUCY-P YSKA(-BS)

### ► Specifications

| Model              |                      |                     | P                                   | UCY-P1150YSKA (-BS   | S)                          | P  | UCY-P1200YSKA (-B   | S)                          |
|--------------------|----------------------|---------------------|-------------------------------------|--|-----------------------------|--|---|-----------------------------|
| Power source       |                      |                     | 3-phase 4-wire 380-400-415V 50/60Hz |  |                             | 3-phase 4-wire 380-400-415V 50/60Hz                            |   |                             |
| Cooling capacity   | *1                   | kW                  | 128.0                               |  | 132.0                       |  |   |                             |
| (Nominal) kcal/h   |                      |                     | 110.100                             |  |                             | 113.500  |   |                             |
|                    | *1                   | BTU / h             |                                     | 436,700  |                             |  | 450,400   |                             |
|                    | Power input          | kW                  |                                     | 36.15  |                             |  | 38.15   |                             |
|                    | Current input        | A                   |                                     | 61.0-57.9-55.8   |                             |  | 64.4-61.1-58.9  |                             |
|                    | EER                  | kW / kW             |                                     | 3.54   |                             |  | 3.46  |                             |
| Cooling capacity   | *3                   |                     |                                     | 130.1  |                             |  | 134.2   |                             |
| Temp. range of     | Indoor               | W.B.                |                                     | 15.0~24.0°C (59~75°F   | )                           |  | 15.0~24.0°C (59~75°F  | 5)                          |
| cooling            | Outdoor              | D.B.                |                                     | 0.0~52.0°C (50~126°F   |                             |  | 0.0~52.0°C (50~126°   |                             |
| Indoor unit        | Total capacity       | 0.0.                |                                     | 30% of outdoor unit car  |                             |  | 30% of outdoor unit ca  |                             |
| connectable        | Model / Quantity     |                     | 50 1.                               | P15~P250/2~50  | paony                       | 50 1   | P15~P250/2~50   | ipacity                     |
| Sound pressure le  |                      |                     |                                     |  |                             |  |   |                             |
| (measured in anec  |                      | dB <a></a>          |                                     | 67.5   |                             |  | 68  |                             |
| Refrigerant piping |                      | mm (in.)            |                                     | 19.05 (3/4) Brazed   |                             |  | 19.05 (3/4) Brazed  |                             |
| diameter           | Gas pipe             | mm (in.)            |                                     | 41.28 (1-5/8) Brazed   |                             |  | 41.28 (1-5/8) Brazed  |                             |
| Set Model          | Gas pipe             | [IIIIII (III.)      |                                     | 41.20 (1-5/0) Diazeu   |                             |  | 41.20 (1-5/0) Diazeu  |                             |
| Model              |                      |                     | DUCY D250VKA ( DC)                  |  |                             | PUCY-P400YKA (-BS)   |   |                             |
| FAN                | Type x Quantity      |                     | Propeller fan x 1                   | Propeller fan x 1  | Propeller fan x 1           | Propeller fan x 1  | Propeller fan x 1   | Propeller fan x 1           |
| FAN                | Air flow rate        | m <sup>3</sup> /min | 175                                 | 175  | 175                         | 175  | 175   | 175                         |
|                    | All IIUw Tale        | L/s                 | 2.917                               | 2,917  | 2.917                       | 2.917  | 2.917   | 2.917                       |
|                    |                      | cfm                 | 6,179                               | 6,179  | 6,179                       | 6,179  | 6,179   | 6,179                       |
|                    | Orated Driving an    |                     | -,                                  | -,   | •,•                         | -,   | -,  | -,                          |
|                    | Control, Driving me  |                     |                                     | -control, Direct-driven b  |                             |  | -control, Direct-driven   |                             |
|                    | Motor output         | kW                  | 0.92 x 1                            | 0.92 x 1   | 0.92 x 1                    | 0.92 x 1   | 0.92 x 1  | 0.92 x 1                    |
|                    | External static pr   | ess.                | 0 Pa (0 mmH <sub>2</sub> O)         | 0 Pa (0 mmH <sub>2</sub> O)  | 0 Pa (0 mmH <sub>2</sub> O) | 0 Pa (0 mmH <sub>2</sub> O)                                    | 0 Pa (0 mmH₂O)  | 0 Pa (0 mmH <sub>2</sub> O) |
| Compressor         | Type x Quantity      |                     | Inverte                             | er scroll hermetic comp  | ressor                      | Inverte  | er scroll hermetic com  | pressor                     |
|                    | Starting method      |                     | Inverter                            | Inverter   | Inverter                    | Inverter   | Inverter  | Inverter                    |
|                    | Motor output         | kW                  | 10.4                                | 10.8   | 10.8                        | 10.8   | 10.8  | 10.8                        |
|                    | Case heater          | kW                  | -                                   | -  | -                           | -  | -   | -                           |
| External finish    |                      |                     |                                     | ated galvanized steel  |                             |  | bated galvanized steel  |                             |
|                    |                      |                     |                                     | owder coating for -BS t  |                             | (+powder coating for -BS type)                                 |   |                             |
|                    |                      |                     |                                     | JNSELL 5Y 8/1 or simi  |                             |  | UNSELL 5Y 8/1 or sim  |                             |
| External dimension | n HxWxD              | mm                  |                                     | 1,650 x 1,220 x 740  |                             |  |   | 1,650 x 1,220 x 740         |
|                    |                      | in.                 |                                     |  |                             | 65 x 48-1/16 x 29-3/16   |   |                             |
| Protection         | High pressure pr     | otection            |                                     |  |                             | High pressure sensor, High pressure switch at 4.15 MPa (601 ps |   |                             |
| devices            | Inverter circuit (CC | MP./FAN)            |                                     | protection, Over-curren  |                             |  | protection, Over-current  |                             |
|                    | Compressor           |                     | Over-heat protection                | Over-heat protection   | Over-heat protection        | Over-heat protection   | Over-heat protection  | Over-heat protection        |
| Fan motor          |                      |                     | Over-current protection             | 1  |                             | Over-current protectio   | n   |                             |
| Refrigerant        | Type x original cl   | harge               | R410A x 11.5 kg (26 lbs)            | R410A x 11.5 kg (26 lbs)   | R410A x 11.5 kg (26 lbs)    | R410A x 11.5 kg (26 lbs)                                       | R410A x 11.5 kg (26 lbs)  | R410A x 11.5 kg (26 lbs)    |
| Net weight         |                      | kg (lbs)            | 237 (523)                           | 237 (523)  | 237 (523)                   | 237 (523)  | 237 (523)   | 237 (523)                   |
| Heat exchanger     |                      | /                   |                                     | sistant cross fin & copp   | er tube                     | Salt-re:   | sistant cross fin & cop   | per tube                    |
| Pipe between unit  | Liquid pipe          | mm (in.)            | 12.7 (1/2) Brazed                   | 15.88 (5/8) Brazed   | 15.88 (5/8) Brazed          | 15.88 (5/8) Brazed   | 15.88 (5/8) Brazed  | 15.88 (5/8) Brazed          |
| and distributor    | Gas pipe             | mm (in.)            | 28.58 (1-1/8) Brazed                | 28.58 (1-1/8) Brazed   | 28.58 (1-1/8) Brazed        | 28.58 (1-1/8) Brazed   | 28.58 (1-1/8) Brazed  | 28.58 (1-1/8) Brazed        |
| Optional parts     |                      | ,                   | Joint: CMY-Y                        | Twinning kit: CMY-Y3<br>102SS/LS-G2, CMY-Y<br>der: CMY-Y104/108/10 | 202/302S-G2                 | Joint: CMY-Y   | 28.58 (1-1/8) Brazed 28.58 (1-1/8) Brazed 28.58 (1-1/8) Brazed<br>Outdoor Twinning kit: CMY-Y300VBK3<br>Joint: CMY-Y102S/LS-G2, CMY-Y202/302S-G2<br>Header: CMY-Y104/108/1010-G |                             |

Notes:

\*1 Nominal cooling conditions (subject to JIS B8615-2)

| 8       |                                      |                  |                   |                  |
|---------|--------------------------------------|------------------|-------------------|------------------|
|         | Indoor                               | Outdoor          | Pipe length       | Level difference |
| Cooling | 27°C DB/19°C WB<br>(81°F DB/66°F WB) | 35°C DB(95°F DB) | 7.5m (24-9/16ft.) | 0m (0ft.)        |

 \*2 External static pressure option is available (30Pa, 60Pa / 3.1mmH<sub>2</sub>O, 6.1mmH<sub>2</sub>O).
 \*3 Reference data under condition of Indoor: 27°CD.B./19.5°CW.B. (81°FD.B./67°FW.B.), Outdoor: 35°CD.B. (95°FD.B.) \*Due to continuing improvement, above specification may be subject to change without notice



Page 37

| *1 | Nominal cooling co | nditions (subject to JIS B861        | 5-2)             |   |
|----|--------------------|--------------------------------------|------------------|---|
|    |                    | Indoor                               | Outdoor          |   |
|    | Cooling            | 27°C DB/19°C WB<br>(81°F DB/66°F WB) | 35°C DB(95°F DB) | 7 |

\*2 External static pressure option is available (30Pa, 60Pa / 3.1mmH<sub>2</sub>O, 6.1mmH<sub>2</sub>O).
 \*3 Reference data under condition of Indoor: 27°CD.B./19.5°CW.B. (81°FD.B./67°FW.B.), Outdoor: 35°CD.B. (95°FD.B.)
 \*Due to continuing improvement, above specification may be subject to change without notice.

Notes:



| Pipe length       | Level difference |
|-------------------|------------------|
| 7.5m (24-9/16ft.) | 0m (0ft.)        |



## ► Specifications



| Model                                 |                      |            | PUCY-P1250YSKA (-BS)   |  | PUCY-P1300YSKA (-BS)                     |   |  |                             |  |
|---------------------------------------|----------------------|------------|--|--|--|---|--|-----------------------------|--|
| Power source                          |                      |            | 3-phase 4-wire 380-400-415V 50/60Hz  |  |  | 3-phase 4-wire 380-400-415V 50/60Hz                             |  |                             |  |
| Cooling capacity                      | *1                   | kW         |  | 136.0  |  | 140.0   |  |                             |  |
| (Nominal)                             |                      | kcal/h     |  | 117,000  |  | 120,400   |  |                             |  |
|                                       | *1                   | BTU / h    |  | 464,000  |  |   | 477,700  |                             |  |
|                                       | Power input          | kW         |  | 41.27  |  |   | 44.82  |                             |  |
|                                       | Current input        | A          |  | 69.6-66.1-63.7   |  |   | 75.6-71.8-69.2   |                             |  |
|                                       | EER                  | kW / kW    |  | 3.29   |  |   | 3.12   |                             |  |
| Cooling capacity                      | *3                   | kW         |  | 138.3  |  |   | 142.3  |                             |  |
| Temp. range of                        | Indoor               | W.B.       |  | 15.0~24.0°C (59~75°F   | )  |   | 15.0~24.0°C (59~75°F   | )                           |  |
| cooling                               | Outdoor              | D.B.       | 1  | 0.0~52.0°C (50~126°F   | -)                                       | 1   | 0.0~52.0°C (50~126°F   | -)                          |  |
| Indoor unit                           | Total capacity       |            | 50~13  | 30% of outdoor unit ca   | pacity                                   | 50~1  | 30% of outdoor unit ca   | pacity                      |  |
| connectable                           | Model / Quantity     |            |  | P15~P250/2~50  |  |   | P15~P250/2~50  |                             |  |
| Sound pressure le<br>(measured in ane |                      | dB <a></a> |  | 68   |  |   | 68   |                             |  |
| Refrigerant piping                    |                      | mm (in.)   |  | 19.05 (3/4) Brazed   |  |   | 19.05 (3/4) Brazed   |                             |  |
| diameter                              | Gas pipe             | mm (in.)   |  | 41.28 (1-5/8) Brazed   |  |   | 41.28 (1-5/8) Brazed   |                             |  |
| Set Model                             |                      |            | I  | · /  |  | 1   |  |                             |  |
| Model                                 |                      |            | PUCY-P400YKA (-BS)   | PUCY-P400YKA (-BS)   | PUCY-P450YKA (-BS)                       | PUCY-P400YKA (-BS)  | PUCY-P450YKA (-BS)   | PUCY-P450YKA (-BS)          |  |
| FAN                                   | Type x Quantity      |            | Propeller fan x 1  | Propeller fan x 1  | Propeller fan x 1                        | Propeller fan x 1   | Propeller fan x 1  | Propeller fan x 1           |  |
|                                       | Air flow rate        | m³/min     | 175  | 175  | 175                                      | 175   | 175  | 175                         |  |
|                                       |                      | L/s        | 2,917  | 2,917  | 2,917                                    | 2,917   | 2,917  | 2,917                       |  |
|                                       |                      | cfm        | 6,179  | 6,179  | 6,179                                    | 6,179   | 6,179  | 6,179                       |  |
|                                       | Control, Driving me  | chanism    | Inverter-control, Direct-driven by motor   |  | Inverter-control, Direct-driven by motor |   |  |                             |  |
|                                       | Motor output         | kW         | 0.92 x 1   | 0.92 x 1   | 0.92 x 1                                 | 0.92 x 1  | 0.92 x 1   | 0.92 x 1                    |  |
| *2                                    | External static pr   | ess.       | 0 Pa (0 mmH <sub>2</sub> O)  | 0 Pa (0 mmH <sub>2</sub> O)  | 0 Pa (0 mmH <sub>2</sub> O)              | 0 Pa (0 mmH <sub>2</sub> O)                                     | 0 Pa (0 mmH <sub>2</sub> O)  | 0 Pa (0 mmH <sub>2</sub> O) |  |
| Compressor                            | Type x Quantity      |            | Inverter-control, Direct-driven by motor   |  | Inverter scroll hermetic compressor      |   |  |                             |  |
|                                       | Starting method      |            | Inverter   | Inverter   | Inverter                                 | Inverter  | Inverter   | Inverter                    |  |
|                                       | Motor output         | kW         | 10.8   | 10.8   | 12.4                                     | 10.8  | 12.4   | 12.4                        |  |
|                                       | Case heater          | kW         | -  | -  | -  | -   | -  | -                           |  |
| External finish                       | 1                    |            | Pre-coated galvanized steel sheets   |  |  | Pre-coated galvanized steel sheets                              |  |                             |  |
|                                       |                      |            | (+p  | owder coating for -BS t  | ype)                                     | (+powder coating for -BS type)                                  |  |                             |  |
|                                       |                      |            | <mu< td=""><td>JNSELL 5Y 8/1 or simi</td><td>lar&gt;</td><td colspan="3"><munsell 1="" 5y="" 8="" or="" similar=""></munsell></td></mu<> | JNSELL 5Y 8/1 or simi  | lar>                                     | <munsell 1="" 5y="" 8="" or="" similar=""></munsell>            |  |                             |  |
| External dimensio                     | n HxWxD              | mm         | 1,650 x 1,220 x 740  | 1,650 x 1,220 x 740  | 1,650 x 1,220 x 740                      | 1,650 x 1,220 x 740   | 1,650 x 1,220 x 740  | 1,650 x 1,220 x 740         |  |
|                                       |                      | in.        |  | 65 x 48-1/16 x 29-3/16   |  |   | 65 x 48-1/16 x 29-3/16   |                             |  |
| Protection                            | High pressure pre    |            |  |  |  | High pressure sensor, High pressure switch at 4.15 MPa (601 psi |  |                             |  |
| devices                               | Inverter circuit (CO | MP./FAN)   |  | protection, Over-current   |  | Over-heat protection, Over-current protection                   |  |                             |  |
|                                       | Compressor           |            | Over-heat protection   | Over-heat protection   | Over-heat protection                     | Over-heat protection  | Over-heat protection   | Over-heat protection        |  |
|                                       | Fan motor            |            |  | Over-current protection  |  |   | Over-current protection  |                             |  |
| Refrigerant                           | Type x original ch   |            |  |  |  | R410A x 11.5 kg (26 lbs)  |  |                             |  |
| Net weight                            |                      | kg (lbs)   | 237 (523)  | 237 (523)  | 237 (523)                                | 237 (523)   | 237 (523)  | 237 (523)                   |  |
| Heat exchanger                        | 1                    |            |  | sistant cross fin & copp   |  |   | sistant cross fin & copp   |                             |  |
| Pipe between unit                     |                      | mm (in.)   | 15.88 (5/8) Brazed   | 15.88 (5/8) Brazed   | 15.88 (5/8) Brazed                       | 15.88 (5/8) Brazed  | 15.88 (5/8) Brazed   |                             |  |
| and distributor                       | Gas pipe             | mm (in.)   | 28.58 (1-1/8) Brazed   | 28.58 (1-1/8) Brazed   | 28.58 (1-1/8) Brazed                     | 28.58 (1-1/8) Brazed  | 28.58 (1-1/8) Brazed   | 28.58 (1-1/8) Brazed        |  |
| Optional parts                        |                      |            | Joint: CMY-Y   | Twinning kit: CMY-Y3<br>102SS/LS-G2, CMY-Y<br>der: CMY-Y104/108/10 | 202/302S-G2                              | Joint: CMY-Y  | r Twinning kit: CMY-Y3<br>102SS/LS-G2, CMY-Y<br>der: CMY-Y104/108/10 | 202/302S-G2                 |  |

## OUTDOOR UNIT Y Series - Cooling-only PUCY-P YSKA(-BS)

### ► Specifications

| Model                              |                      |            |  | PUCY-P1350YSKA (-BS)  |  |  |  |
|------------------------------------|----------------------|------------|--|---|--|--|--|
| Power source                       |                      |            |  | 3-phase 4-wire 380-400-415V 50/60Hz   |  |  |  |
| Cooling capacity *1 kW             |                      |            | 144.0  |   |  |  |  |
| coomig capacity                    |                      | kcal/h     |  | 123.800   |  |  |  |
| (•••••••)                          | *1                   | BTU / h    |  | 491.300   |  |  |  |
| [                                  | Power input          | kW         |  | 48.39   |  |  |  |
|                                    | Current input        | A          |  | 81.6-77.6-74.8  |  |  |  |
|                                    | EER                  | kW / kW    |  | 2.97  |  |  |  |
| Cooling capacity                   | *3                   |            |  | 146.4   |  |  |  |
|                                    | Indoor               | W.B.       |  | 15.0~24.0°C (59~75°F)   |  |  |  |
|                                    | Outdoor              | D.B.       |  | 10.0~52.0°C (50~126°F)  |  |  |  |
|                                    | Total capacity       | 0.0.       |  | 50~130% of outdoor unit capacity  |  |  |  |
|                                    | Model / Quantity     |            |  | P15~P250/2~50   |  |  |  |
| Sound pressure lev                 | ,                    |            |  |   |  |  |  |
| (measured in anec                  |                      | dB <a></a> |  | 68  |  |  |  |
| Refrigerant piping                 | Liquid pipe          | mm (in.)   |  | 19.05 (3/4) Brazed  |  |  |  |
|                                    | Gas pipe             | mm (in.)   |  | 41.28 (1-5/8) Brazed  |  |  |  |
| Set Model                          |                      |            | 1  | 1   | 1  |  |  |
| Model                              |                      |            | PUCY-P450YKA (-BS)                                   | PUCY-P450YKA (-BS)  | PUCY-P450YKA (-BS)                                   |  |  |
|                                    | Type x Quantity      |            | Propeller fan x 1                                    | Propeller fan x 1   | Propeller fan x 1                                    |  |  |
|                                    | Air flow rate        | m³/min     | 175  | 175   | 175  |  |  |
|                                    |                      | L/s        | 2,917  | 2,917   | 2,917  |  |  |
|                                    |                      | cfm        | 6,179  | 6,179   | 6,179  |  |  |
|                                    | Control, Driving me  |            | Inverter-control, Direct-driven by motor             | Inverter-control, Direct-driven by motor                                      | Inverter-control, Direct-driven by motor             |  |  |
|                                    | Motor output         | kW         | 0.92 x 1   | 0.92 x 1  | 0.92 x 1   |  |  |
| *2                                 | External static pre  | ess.       | 0 Pa (0 mmH <sub>2</sub> O)                          | 0 Pa (0 mmH <sub>2</sub> O)   | 0 Pa (0 mmH <sub>2</sub> O)                          |  |  |
| Compressor                         | Type x Quantity      |            | Inverter scroll hermetic compressor                  | Inverter scroll hermetic compressor   | Inverter scroll hermetic compressor                  |  |  |
|                                    | Starting method      |            | Inverter   | Inverter  | Inverter   |  |  |
|                                    | Motor output         | kW         | 12.4   | 12.4  | 12.4   |  |  |
|                                    | Case heater          | kW         | -  | -   | _  |  |  |
| External finish                    |                      |            | Pre-coated galvanized steel sheets                   | Pre-coated galvanized steel sheets  | Pre-coated galvanized steel sheets                   |  |  |
|                                    |                      |            | (+powder coating for -BS type)                       | (+powder coating for -BS type)  | (+powder coating for -BS type)                       |  |  |
|                                    |                      |            | <munsell 1="" 5y="" 8="" or="" similar=""></munsell> | <munsell 1="" 5y="" 8="" or="" similar=""></munsell>                          | <munsell 1="" 5y="" 8="" or="" similar=""></munsell> |  |  |
| External dimension                 | n HxWxD              | mm         | 1,650 x 1,220 x 740                                  | 1,650 x 1,220 x 740   | 1,650 x 1,220 x 740                                  |  |  |
|                                    |                      | in.        | 65 x 48-1/16 x 29-3/16                               | 65 x 48-1/16 x 29-3/16  | 65 x 48-1/16 x 29-3/16                               |  |  |
| Protection                         | High pressure pro    | otection   | High pressure sensor,                                | High pressure sensor,   | High pressure sensor,                                |  |  |
| devices                            | • • •                |            | High pressure switch at 4.15 MPa (601 psi)           | High pressure switch at 4.15 MPa (601 psi)                                    | High pressure switch at 4.15 MPa (601 psi)           |  |  |
|                                    | Inverter circuit (CO | MP./FAN)   | Over-heat protection, Over-current protection        | Over-heat protection, Over-current protection                                 | Over-heat protection, Over-current protection        |  |  |
|                                    | Compressor           |            | Over-heat protection                                 | Over-heat protection  | Over-heat protection                                 |  |  |
|                                    | Fan motor            |            | Over-current protection                              | Over-current protection   | Over-current protection                              |  |  |
| Refrigerant Type x original charge |                      | narge      | R410A x 11.5 kg (26 lbs)                             | R410A x 11.5 kg (26 lbs)  | R410A x 11.5 kg (26 lbs)                             |  |  |
| Net weight                         |                      | kg (lbs)   | 237 (523)  | 237 (523)   | 237 (523)  |  |  |
| Heat exchanger                     |                      |            | Salt-resistant cross fin & copper tube               | Salt-resistant cross fin & copper tube  | Salt-resistant cross fin & copper tube               |  |  |
| Pipe between unit                  | Liquid pipe          | mm (in.)   | 15.88 (5/8) Brazed                                   | 15.88 (5/8) Brazed  | 15.88 (5/8) Brazed                                   |  |  |
| and distributor                    | Gas pipe             | mm (in.)   | 28.58 (1-1/8) Brazed                                 | 28.58 (1-1/8) Brazed  | 28.58 (1-1/8) Brazed                                 |  |  |
| Optional parts                     |                      |            | Ja   | Outdoor Twinning kit: CMY-Y300VBK3<br>bint: CMY-Y102SS/LS-G2, CMY-Y202/302S-C | 62   |  |  |
|                                    |                      |            |  | Header: CMY-Y104/108/1010-G   |  |  |  |

Notes:

\*1 Nominal cooling conditions (subject to JIS B8615-2)

|         | Indoor                               | Outdoor          | Pipe length       | Level difference |
|---------|--------------------------------------|------------------|-------------------|------------------|
| Cooling | 27°C DB/19°C WB<br>(81°F DB/66°F WB) | 35°C DB(95°F DB) | 7.5m (24-9/16ft.) | 0m (0ft.)        |

 \*2 External static pressure option is available (30Pa, 60Pa / 3.1mmH<sub>2</sub>O, 6.1mmH<sub>2</sub>O).
 \*3 Reference data under condition of Indoor: 27°CD.B./19.5°CW.B. (81°FD.B./67°FW.B.), Outdoor: 35°CD.B. (95°FD.B.) \*Due to continuing improvement, above specification may be subject to change without notice



Page 39

Notes:

| *1 | *1 Nominal cooling conditions (subject to JIS B8615-2) |                                      |                  |  |  |  |  |  |
|----|--|--------------------------------------|------------------|--|--|--|--|--|
|    |  | Indoor                               | Outdoor          |  |  |  |  |  |
|    | Cooling  | 27°C DB/19°C WB<br>(81°F DB/66°F WB) | 35°C DB(95°F DB) |  |  |  |  |  |

\*2 External static pressure option is available (30Pa, 60Pa / 3.1mmHzO, 6.1mmHzO).
 \*3 Reference data under condition of Indoor: 27°CD.B./19.5°CW.B. (81°FD.B./67°FW.B.), Outdoor: 35°CD.B. (95°FD.B.)
 \*Due to continuing improvement, above specification may be subject to change without notice.



| Pipe length       | Level difference |
|-------------------|------------------|
| 7.5m (24-9/16ft.) | 0m (0ft.)        |







| Model                              |                     | PUCY-EP400YSKA (-BS)    |  | PUCY-EP450YSKA (-BS)        |  | PUCY-EP500YSKA (-BS)        |  |                             |
|------------------------------------|---------------------|-------------------------|--|-----------------------------|--|-----------------------------|--|-----------------------------|
| Power source                       |                     |                         | 3-phase 4-wire 380-400-415V 50/60Hz  |                             | 3-phase 4-wire 380-400-415V 50/60Hz  |                             | 3-phase 4-wire 380-400-415V 50/60Hz  |                             |
| Cooling capacity                   | *1                  | kW                      | 44   | .8                          | 50.4   |                             | 56.0   |                             |
| (Nominal)                          |                     | kcal/h                  | 38,  | 500                         | 43,300   |                             | 48,200   |                             |
|                                    | *1                  | BTU / h                 | 152  | ,900                        | 172,   | 000                         | 191  | ,100                        |
|                                    | Power input         | kW                      | 11.  | .18                         | 12.  | 59                          | 14   | .16                         |
|                                    | Current input       | A                       | 18.8-17  | <sup>7</sup> .9-17.2        | 21.2-20  | .1-19.4                     | 23.9-22  | 2.7-21.8                    |
|                                    | EER                 | kW / kW                 | 4.   | 00                          | 4.0  | 00                          | 3.   | 95                          |
| Cooling capacity                   | *3                  | kW                      |  | 5.5                         | 51   |                             |  | 6.9                         |
| Temp. range of                     | Indoor              | W.B.                    | 15.0~24.0°0  | C (59~75°F)                 | 15.0~24.0°C  | C (59~75°F)                 | 15.0~24.0°   | C (59~75°F)                 |
| cooling                            | Outdoor             | D.B.                    | 10.0~52.0°C  | (50~126°F)                  | 10.0~52.0°C  | (50~126°F)                  | 10.0~52.0°C  | C (50~126°F)                |
| Indoor unit                        | Total capacity      |                         | 50~130% of outo  | loor unit capacity          | 50~130% of outd  | loor unit capacity          | 50~130% of outo  | door unit capacity          |
| connectable                        | Model / Quantity    |                         | P15~P2   | 50/1~34                     | P15~P2   | 50/1~39                     | P15~P2   | 50/1~43                     |
| Sound pressure le                  | vel                 | dB <a></a>              | 6  | 0                           | 60   | F                           |  | 1                           |
| (measured in ane                   | choic room)         | UD <a></a>              | 0  | 0                           | 00   | .5                          | 0  | 1                           |
| Refrigerant piping                 | Liquid pipe         | mm (in.)                | 12.7 (1/2  | ) Brazed                    | 15.88 (5/8   | <ol><li>Brazed</li></ol>    | 15.88 (5/  | 8) Brazed                   |
| diameter                           | Gas pipe            | mm (in.)                | 28.58 (1-1   | /8) Brazed                  | 28.58 (1-1   | (8) Brazed                  | 28.58 (1-1   | /8) Brazed                  |
| Set Model                          |                     |                         |  |                             | •  |                             | •  |                             |
| Model                              |                     |                         | PUCY-P200YKA (-BS)   | PUCY-P200YKA (-BS)          | PUCY-P200YKA (-BS)   | PUCY-P250YKA (-BS)          | PUCY-P250YKA (-BS)   | PUCY-P250YKA (-BS)          |
| FAN                                | Type x Quantity     |                         | Propeller fan x 1  | Propeller fan x 1           | Propeller fan x 1  | Propeller fan x 1           | Propeller fan x 1  | Propeller fan x 1           |
|                                    | Air flow rate       | m³/min                  | 175  | 175                         | 175  | 175                         | 175  | 175                         |
|                                    |                     | L/s                     | 2,917  | 2,917                       | 2,917  | 2,917                       | 2,917  | 2,917                       |
|                                    |                     | cfm                     | 6,179  | 6,179                       | 6,179  | 6,179                       | 6,179  | 6,179                       |
|                                    | Control, Driving me | chanism                 | Inverter-control, Dir  | ect-driven by motor         | Inverter-control, Dir  | ect-driven by motor         | Inverter-control, Dir  | ect-driven by motor         |
|                                    | Motor output        | kW                      | 0.92 x 1   | 0.92 x 1                    | 0.92 x 1   | 0.92 x 1                    | 0.92 x 1   | 0.92 x 1                    |
| *2                                 | External static pro | ess.                    | 0 Pa (0 mmH <sub>2</sub> O)  | 0 Pa (0 mmH <sub>2</sub> O) | 0 Pa (0 mmH <sub>2</sub> O)  | 0 Pa (0 mmH <sub>2</sub> O) | 0 Pa (0 mmH <sub>2</sub> O)  | 0 Pa (0 mmH <sub>2</sub> O) |
| Compressor                         | Type x Quantity     |                         | Inverter scroll her  | metic compressor            | Inverter scroll her  | metic compressor            | Inverter scroll her  | metic compressor            |
|                                    | Starting method     |                         | Inverter   | Inverter                    | Inverter   | Inverter                    | Inverter   | Inverter                    |
|                                    | Motor output        | kW                      | 5.5  | 5.5                         | 5.5  | 6.9                         | 6.9  | 6.9                         |
|                                    | Case heater         | kW                      | -  | -                           | -  | -                           | -  | -                           |
| External finish                    |                     | I                       | Pre-coated galvanized steel sheets<br>(+powder coating for -BS type)<br><munsell 1="" 5y="" 8="" or="" similar=""></munsell> |                             | Pre-coated galvanized steel sheets<br>(+powder coating for -BS type)<br><munsell 1="" 5y="" 8="" or="" similar=""></munsell> |                             | Pre-coated galvanized steel sheets<br>(+powder coating for -BS type)<br><munsell 1="" 5y="" 8="" or="" similar=""></munsell> |                             |
| External dimensio                  | n HxWxD             | mm                      | 1,650 x 920 x 740  | 1,650 x 920 x 740           | 1,650 x 920 x 740  | 1,650 x 920 x 740           | 1,650 x 920 x 740  | 1,650 x 920 x 740           |
|                                    |                     | in.                     | 65 x 36-1/4 x 29-3/16  | 65 x 36-1/4 x 29-3/16       | 65 x 36-1/4 x 29-3/16  | 65 x 36-1/4 x 29-3/16       | 65 x 36-1/4 x 29-3/16  | 65 x 36-1/4 x 29-3/16       |
| Protection                         | High pressure pro   | otection                | High press   | ure sensor.                 | High press   | ure sensor.                 | High press   | ure sensor.                 |
| devices                            |                     |                         | High pressure switch   | at 4.15 MPa (601 psi)       | High pressure switch   | at 4.15 MPa (601 psi)       | High pressure switch   | at 4.15 MPa (601 psi)       |
|                                    | Inverter circuit    |                         |  | protection,                 | Over-heat  |                             |  | protection,                 |
|                                    | (COMP./FAN)         |                         | Over-currer  | nt protection               | Over-curren  | t protection                | Over-currer  | nt protection               |
|                                    | Compressor          |                         |  | Over-heat protection        | Over-heat protection   | Over-heat protection        | Over-heat protection   | Over-heat protection        |
| Fan motor                          |                     | Thermal switch          | Thermal switch   | Över-curren                 |  |                             | nt protection  |                             |
| Refrigerant Type x original charge |                     | R410A x 5.5 kg (13 lbs) | R410A x 5.5 kg (13 lbs)  | R410A x 5.5 kg (13 lbs)     | R410A x 6.5 kg (15 lbs)  |                             |  |                             |
| Net weight kg (lbs)                |                     | 174 (384)               | 174 (384)  | 174 (384)                   | 183 (404)  | 183 (404)                   | 183 (404)  |                             |
| Heat exchanger                     |                     | Salt-resistant cros     | s fin & copper tube  | Salt-resistant cross        | s fin & copper tube  | Salt-resistant cros         | s fin & copper tube  |                             |
| Pipe between unit                  | Liquid pipe         |                         |  | 9.52 (3/8) Brazed           | 9.52 (3/8) Brazed  | 9.52 (3/8) Brazed           | 9.52 (3/8) Brazed  |                             |
| and distributor                    | Gas pipe            | mm (in.)                |  | 22.2 (7/8) Brazed           | 22.2 (7/8) Brazed  | 22.2 (7/8) Brazed           | 22.2 (7/8) Brazed  | 22.2 (7/8) Brazed           |
| Optional parts                     |                     |                         | Outdoor Twinning k<br>Joint: CMY-Y<br>CMY-Y2   | tit: CMY-Y100VBK3           | Outdoor Twinning kit: CMY-Y100/BK3<br>Joint: CMY-Y102SS/LS-G2,<br>CMY-Y202S-G2<br>Header: CMY-Y104/108/1010-G                |                             | Outdoor Twinning kit: CMY-Y100VBK3<br>Joint: CMY-Y102SS/LS-G2,<br>CMY-Y202S-G2   |                             |
| 1                                  |                     |                         | neauer. CIVIY-Y  | 104/100/1010-0              | neauer. CIVI 1-1   | 104/100/1010-0              | Header: CMY-Y104/108/1010-G  |                             |

# OUTDOOR UNIT Y Series - Cooling-only PUCY-EP YSKA(-BS)

### ► Specifications

| Model   |   |            | PUCY-EP65  | 0YSKA (-BS)                       | PUCY-EP700YSKA (-BS)  |                                 |  |
|---|---|------------|--|-----------------------------------|---|---------------------------------|--|
| Power source  |   |            | 3-phase 4-wire 380   | -400-415V 50/60Hz                 | 3-phase 4-wire 380-400-415V 50/60Hz   |                                 |  |
| Cooling capacity *1 kW                              |   |            | 73.5   |                                   | . 8   | 0.0                             |  |
| (Nominal)   |   | kcal/h     | 63.  | 200                               | 68.   | .800                            |  |
|   | *1                                      | BTU / h    | 250  | .800                              | 273   | 3.000                           |  |
| 1   | Power input                             | kW         |  | .74                               | -   | .56                             |  |
|   | Current input                           | A          |  | 1.6-30.5                          |   | 4.5-33.3                        |  |
|   | EER                                     | kW / kW    |  | 72                                |   | .71                             |  |
| Cooling capacity                                    | *3                                      |            |  | 4.7                               |   | 1.3                             |  |
|   | Indoor                                  | W.B.       |  | C (59~75°F)                       |   | C (59~75°F)                     |  |
|   | Outdoor                                 | D.B.       |  | C (50~126°F)                      |   | C (50~126°F)                    |  |
| Indoor unit   | Total capacity                          | D.D.       |  | door unit capacity                |   | door unit capacity              |  |
|   | Model / Quantity                        |            |  | 250/2~50                          |   | 250/2~50                        |  |
|   |   |            | F 13~F2  | :50/2~50                          | FIJ~F2  | 230/2~30                        |  |
| Sound pressure le<br>(measured in anec              | choic room)                             | dB <a></a> |  | 64                                |   | 64                              |  |
| Refrigerant piping                                  | Liquid pipe                             | mm (in.)   | (-   | 8) Brazed                         | (-  | 4) Brazed                       |  |
|   | Gas pipe                                | mm (in.)   | 28.58 (1-1   | /8) Brazed                        | 34.93 (1-3  | 3/8) Brazed                     |  |
| Set Model   |   |            |  |                                   |   |                                 |  |
| Model   |   |            | PUCY-P300YKA (-BS)   | PUCY-P350YKA (-BS)                | PUCY-P350YKA (-BS)  | PUCY-P350YKA (-BS)              |  |
| FAN   | Type x Quantity                         |            | Propeller fan x 1  | Propeller fan x 1                 | Propeller fan x 1   | Propeller fan x 1               |  |
|   | Air flow rate                           | m³/min     | 175  | 175                               | 175   | 175                             |  |
|   |   | L/s        | 2,917  | 2,917                             | 2,917   | 2,917                           |  |
|   |   | cfm        | 6,179  | 6,179                             | 6,179   | 6,179                           |  |
|   | Control, Driving me                     | chanism    | Inverter-control, Di   | rect-driven by motor              | Inverter-control, Di  | rect-driven by motor            |  |
|   | Motor output                            | kW         | 0.92 x 1 0.92 x 1  |                                   | 0.92 x 1 0.92 x 1   |                                 |  |
| *2  | External static pro                     | ess.       | 0 Pa (0 mmH <sub>2</sub> O)  | 0 Pa (0 mmH <sub>2</sub> O)       | 0 Pa (0 mmH <sub>2</sub> O)   | 0 Pa (0 mmH <sub>2</sub> O)     |  |
| Compressor  | Type x Quantity                         |            | Inverter scroll her  | metic compressor                  | Inverter scroll her   | metic compressor                |  |
|   | Starting method                         |            | Inverter Inverter  |                                   | Inverter Inverter   |                                 |  |
|   | Motor output                            | kW         | 8.1  | 10.4                              | 10.4  | 10.4                            |  |
|   | Case heater                             | kW         | _  | _                                 | _   | _                               |  |
| External finish                                     |   |            | Pre-coated galva   | nized steel sheets                | Pre-coated galvanized steel sheets  |                                 |  |
|   |   |            |  | ng for -BS type)                  | (+powder coating for -BS type)  |                                 |  |
|   |   |            | <munsell 51<="" td=""><td>/ 8/1 or similar&gt;</td><td colspan="3"><munsell 1="" 5y="" 8="" or="" similar=""></munsell></td></munsell>                   | / 8/1 or similar>                 | <munsell 1="" 5y="" 8="" or="" similar=""></munsell>  |                                 |  |
| External dimensior                                  | n HxWxD                                 | mm         | 1.650 x 920 x 740  | 1.650 x 1.220 x 740               | 1.650 x 1.220 x 740   | 1.650 x 1.220 x 740             |  |
|   |   | in.        | 65 x 36-1/4 x 29-3/16  | 65 x 48-1/16 x 29-3/16            | 65 x 48-1/16 x 29-3/16  | 65 x 48-1/16 x 29-3/16          |  |
| Protection  | High pressure pro                       | otection   | High pressure sensor. High pres  | sure switch at 4.15 MPa (601 psi) | High pressure sensor. High pres   | sure switch at 4,15 MPa (601 ps |  |
| devices   | Inverter circuit (CO                    |            |  | Over-current protection           |   | Over-current protection         |  |
|   | Compressor                              |            | Over-heat protection   | Over-heat protection              | Over-heat protection  | Over-heat protection            |  |
|   | Fan motor                               |            | Over-current protection  | Over-current protection           | Over-current protection   | Over-current protection         |  |
| Refrigerant   | Type x original ch                      | narge      | R410A x 6.5 kg (15 lbs) R410A x 11.5 kg (26 lbs)   |                                   | R410A x 11.5 kg (26 lbs)  | R410A x 11.5 kg (26 lbs)        |  |
| Net weight  | .,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,, | kg (lbs)   | 201 (444)  | 237 (523)                         | 237 (523)   | 237 (523)                       |  |
| Heat exchanger                                      |   |            | - ( )  | s fin & copper tube               |   | is fin & copper tube            |  |
| Pipe between unit                                   | Liquid pipe                             | mm (in.)   | 12.7 (1/2) Brazed  | 12.7 (1/2) Brazed                 | 12.7 (1/2) Brazed   | 12.7 (1/2) Brazed               |  |
|   |   | ,          |  | ( )                               | 28.58 (1-1/8) Brazed  | 28.58 (1-1/8) Brazed            |  |
| and distributor Gas pipe mm (in.)<br>Optional parts |   |            | 22.2 (7/8) Brazed 28.58 (1-1/8) Brazed<br>Outdoor Twinning kit: CMY-Y100VBK3<br>Joint: CMY-Y102SS/LS-G2, CMY-Y202/302S-G2<br>Header: CMY-Y104/108/1010-G |                                   | 28.58 (1-1/8) Brazed 28.58 (1-1/8) Brazed<br>Outdoor Twinning kit: CMY-Y200VBK2<br>Joint: CMY-Y102SS/LS-G2, CMY-Y202/302S-G2<br>Header: CMY-Y104/108/1010-G |                                 |  |

Notes:

\*1 Nominal cooling conditions (subject to JIS B8615-2)

|         | Indoor                               | Outdoor          | Pipe length       | Level difference |
|---------|--------------------------------------|------------------|-------------------|------------------|
| Cooling | 27°C DB/19°C WB<br>(81°F DB/66°F WB) | 35°C DB(95°F DB) | 7.5m (24-9/16ft.) | 0m (0ft.)        |

\*2 External static pressure option is available (30Pa, 60Pa / 3.1mmH<sub>2</sub>O, 6.1mmH<sub>2</sub>O).
 \*3 Reference data under condition of Indoor: 27°CD.B./19.5°CW.B. (81°FD.B./67°FW.B.), Outdoor: 35°CD.B. (95°FD.B.)
 \*Due to continuing improvement, above specification may be subject to change without notice.



Notes:

| *1 | *1 Nominal cooling conditions (subject to JIS B8615-2) |                                      |                  |  |  |  |  |  |
|----|--|--------------------------------------|------------------|--|--|--|--|--|
|    |  | Indoor                               | Outdoor          |  |  |  |  |  |
|    | Cooling  | 27°C DB/19°C WB<br>(81°F DB/66°F WB) | 35°C DB(95°F DB) |  |  |  |  |  |

\*2 External static pressure option is available (30Pa, 60Pa / 3.1mmHzO, 6.1mmHzO).
 \*3 Reference data under condition of Indoor: 27°CD.B./19.5°CW.B. (81°FD.B./67°FW.B.), Outdoor: 35°CD.B. (95°FD.B.)
 \*Due to continuing improvement, above specification may be subject to change without notice.

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| Pipe length       | Level difference |
|-------------------|------------------|
| 7.5m (24-9/16ft.) | 0m (0ft.)        |



#### ► Specifications



| Model                                 |                      |            | PUCY-EP750YSKA (-BS)   |  | PUCY-EP800YSKA (-BS)                     |   |                             |                             |  |
|---------------------------------------|----------------------|------------|--|--|--|---|-----------------------------|-----------------------------|--|
| Power source                          |                      |            | 3-phase 4-wire 380-400-415V 50/60Hz  |  | 3-phase 4-wire 380-400-415V 50/60Hz      |   |                             |                             |  |
| Cooling capacity                      | *1                   | kW         |  | 84.8   |  | 90.4  |                             |                             |  |
| (Nominal)                             |                      | kcal/h     |  | 72,900   |  |   | 77,700                      |                             |  |
|                                       |                      | BTU / h    |  | 289,300  |  |   | 308,400                     |                             |  |
|                                       | Power input          | kW         |  | 21.85  |  |   | 23.33                       |                             |  |
|                                       | Current input        | A          |  | 36.8-35.0-33.7   |  |   | 39.3-37.4-36.0              |                             |  |
|                                       |                      | kW / kW    |  | 3.88   |  | 3.87  |                             |                             |  |
| Cooling capacity                      | *3                   |            |  | 86.2   |  |   | 91.9                        |                             |  |
| Temp. range of                        | Indoor               | W.B.       |  | 15.0~24.0°C (59~75°F   |  |   | 15.0~24.0°C (59~75°F        |                             |  |
| cooling                               | Outdoor              | D.B.       |  | 0.0~52.0°C (50~126°F   |  |   | 0.0~52.0°C (50~126°         |                             |  |
| Indoor unit                           | Total capacity       |            | 50~13  | 30% of outdoor unit ca   | pacity                                   | 50~1  | 30% of outdoor unit ca      | pacity                      |  |
| connectable                           | Model / Quantity     |            |  | P15~P250/2~50  |  |   | P15~P250/2~50               |                             |  |
| Sound pressure le<br>(measured in ane |                      | dB <a></a> |  | 64   |  |   | 64                          |                             |  |
| Refrigerant piping                    | Liquid pipe          | mm (in.)   |  | 19.05 (3/4) Brazed   |  |   | 19.05 (3/4) Brazed          |                             |  |
| diameter                              | Gas pipe             | mm (in.)   |  | 34.93 (1-3/8) Brazed   |  |   | 34.93 (1-3/8) Brazed        |                             |  |
| Set Model                             |                      |            | •  |  |  | •   |                             |                             |  |
| Model                                 |                      |            | PUCY-P200YKA (-BS)   | PUCY-P200YKA (-BS)   | PUCY-P350YKA (-BS)                       | PUCY-P200YKA (-BS)  | PUCY-P250YKA (-BS)          | PUCY-P350YKA (-BS)          |  |
| FAN                                   | Type x Quantity      |            | Propeller fan x 1  | Propeller fan x 1  | Propeller fan x 1                        | Propeller fan x 1   | Propeller fan x 1           | Propeller fan x 1           |  |
|                                       | Air flow rate        | m³/min     | 175  | 175  | 175                                      | 175   | 175                         | 175                         |  |
|                                       |                      | L/s        | 2,917  | 2,917  | 2,917                                    | 2,917   | 2,917                       | 2,917                       |  |
|                                       |                      | cfm        | 6,179  | 6,179  | 6,179                                    | 6,179   | 6,179                       | 6,179                       |  |
|                                       | Control, Driving me  | chanism    | Inverter   | control, Direct-driven b   | by motor                                 | Inverter  | -control, Direct-driven     | by motor                    |  |
|                                       | Motor output         | kW         | 0.92 x 1   | 0.92 x 1   | 0.92 x 1                                 | 0.92 x 1  | 0.92 x 1                    | 0.92 x 1                    |  |
| *2                                    | External static pre  | ess.       | 0 Pa (0 mmH <sub>2</sub> O)  | 0 Pa (0 mmH <sub>2</sub> O)  | 0 Pa (0 mmH <sub>2</sub> O)              | 0 Pa (0 mmH <sub>2</sub> O)   | 0 Pa (0 mmH <sub>2</sub> O) | 0 Pa (0 mmH <sub>2</sub> O) |  |
| Compressor                            | Type x Quantity      |            | Inverter-control, Direct-driven by motor   |  | Inverter-control, Direct-driven by motor |   |                             |                             |  |
| •                                     | Starting method      |            | Inverter   | Inverter   | Inverter                                 | Inverter  | Inverter                    | Inverter                    |  |
|                                       | Motor output         | kW         | 5.5  | 5.5  | 10.4                                     | 5.5   | 6.9                         | 10.4                        |  |
|                                       | Case heater          | kW         | -  | -  | -  | -   | -                           | -                           |  |
| External finish                       |                      |            | Pre-coated galvanized steel sheets<br>(+powder coating for -BS type)<br><munsell 1="" 5y="" 8="" or="" similar=""></munsell> |  |  | Pre-coated galvanized steel sheets<br>(+powder coating for -BS type)<br><munsell 1="" 5y="" 8="" or="" similar=""></munsell>  |                             |                             |  |
| External dimensio                     | n HxWxD              | mm         | 1.650 x 920 x 740  | 1,650 x 920 x 740  | 1,650 x 1,220 x 740                      | 1.650 x 920 x 740   |                             | 1,650 x 1,220 x 740         |  |
| External almenolo                     |                      | in.        |  |  |  | 65 x 36-1/4 x 29-3/16   |                             |                             |  |
| Protection                            | High pressure pro    |            |  |  |  | High pressure sensor, High pressure switch at 4.15 MPa (601 psi   |                             |                             |  |
| devices                               | Inverter circuit (CO |            |  | protection, Over-curren  |  |   | protection, Over-curren     |                             |  |
|                                       | Compressor           |            |  |  |  | Over-heat protection  |                             |                             |  |
| Fan motor                             |                      |            |  | Over-current protection  |  |   | Over-current protection     |                             |  |
| Refrigerant                           | Type x original ch   | narge      | R410A x 5.5 kg (13 lbs) R410A x 5.5 kg (13 lbs) R410A x 11.5 kg (26 lbs)   |  |  |   |                             |                             |  |
| Net weight kg (lbs)                   |                      | 174 (384)  | 174 (384)  | 237 (523)  | 174 (384)                                | 183 (404)   | 237 (523)                   |                             |  |
| Heat exchanger                        |                      |            | sistant cross fin & copp   |  |  | sistant cross fin & cop   |                             |                             |  |
| Pipe between unit                     | Liquid pipe          | mm (in.)   | 9.52 (3/8) Brazed  | 9.52 (3/8) Brazed  | 12.7 (1/2) Brazed                        | 9.52 (3/8) Brazed   | 9.52 (3/8) Brazed           | 12.7 (1/2) Brazed           |  |
| and distributor                       |                      | mm (in.)   |  | 22.2 (7/8) Brazed  | 28.58 (1-1/8) Brazed                     |   | 22.2 (7/8) Brazed           | 28.58 (1-1/8) Brazed        |  |
| Optional parts                        |                      |            | Outdoor<br>Joint: CMY-Y  | Twinning kit: CMY-Y3<br>102SS/LS-G2, CMY-Y<br>der: CMY-Y104/108/10 | 00VBK3<br>202/302S-G2                    | 1         22.2 (7/8) Brazed         22.3 (7/8) Brazed         26.58 (1-1/8) Brazed           Outdoor Twinning kit: CMY-Y300VBK3         Joint: CMY-Y102SS/LS-62, CMY-Y202/302S-62         Header: CMY-Y104/108/1010-G |                             |                             |  |

# OUTDOOR UNIT Y Series - Cooling-only PUCY-EP YSKA(-BS)

### ► Specifications

| Model               |                      | PUCY-EP850YSKA (-BS) |                                     |  | PUCY-EP900YSKA (-BS)                |  |                             |                             |
|---------------------|----------------------|----------------------|-------------------------------------|--|-------------------------------------|--|-----------------------------|-----------------------------|
| Power source        |                      |                      | 3-phase                             | 4-wire 380-400-415V  | 50/60Hz                             | 3-phase 4-wire 380-400-415V 50/60Hz  |                             |                             |
| Cooling capacity    | *1                   | kW                   |                                     | 96.0   |                                     | 101.5  |                             |                             |
| (Nominal)           |                      | kcal/h               | 82.600                              |  |                                     | 87,300   |                             |                             |
|                     | *1                   | BTU / h              |                                     | 327,600  |                                     |  | 346,300                     |                             |
|                     | Power input          | kW                   |                                     | 24.80  |                                     |  | 26.71                       |                             |
|                     | Current input        | A                    |                                     | 41.8-39.7-38.3   |                                     |  | 45.0-42.8-41.2              |                             |
|                     | EER                  | kW / kW              |                                     | 3.87   |                                     |  | 3.80                        |                             |
| Cooling capacity    | *3                   |                      |                                     | 97.6   |                                     |  | 103.2                       |                             |
| Temp. range of      | Indoor               | W.B.                 |                                     | 15.0~24.0°C (59~75°F   | )                                   |  | 15.0~24.0°C (59~75°F        | <i>.</i> )                  |
| cooling             | Outdoor              | D.B.                 |                                     | 0.0~52.0°C (50~126°F   |                                     |  | 0.0~52.0°C (50~126°I        |                             |
| Indoor unit         | Total capacity       | 0.0.                 |                                     | 30% of outdoor unit car  |                                     |  | 30% of outdoor unit ca      |                             |
|                     | Model / Quantity     |                      | 00 1                                | P15~P250/2~50  | puolity                             | 00 1   | P15~P250/2~50               | puolty                      |
| Sound pressure le   |                      |                      |                                     |  |                                     |  |                             |                             |
| (measured in anec   |                      | dB <a></a>           |                                     | 64   |                                     |  | 65                          |                             |
| Refrigerant piping  |                      | mm (in.)             |                                     | 19.05 (3/4) Brazed   |                                     |  | 19.05 (3/4) Brazed          |                             |
| diameter            | Gas pipe             | mm (in.)             |                                     | 41.28 (1-5/8) Brazed   |                                     |  | 41.28 (1-5/8) Brazed        |                             |
| Set Model           | Gas pipe             | [IIIIII (III.)       |                                     | 41.20 (1-5/0) biazeu   |                                     |  | 41.20 (1-5/0) Diazeu        |                             |
| Model               |                      |                      |                                     | PUCY-P250YKA (-BS)   |                                     |  |                             | DUCY D250VKA ( DS)          |
| FAN                 | Type x Quantity      |                      | Propeller fan x 1                   | Propeller fan x 1  | Propeller fan x 1                   | Propeller fan x 1  | Propeller fan x 1           | Propeller fan x 1           |
| FAN                 | Air flow rate        | m³/min               | 175                                 | 175  | 175                                 | 175  | 175                         | 175                         |
|                     | All now rate         | L/s                  | 2.917                               | 2,917  | 2.917                               | 2.917  | 2.917                       | 2.917                       |
|                     |                      | Cfm                  | 6,179                               | 6,179  | 6,179                               | 6.179  | 6.179                       | 6,179                       |
|                     | Oratari Drivina an   |                      | -,                                  | •,•  | •,•                                 | -,   | -,                          | -,                          |
|                     | Control, Driving me  |                      |                                     | -control, Direct-driven b  |                                     |  | -control, Direct-driven     |                             |
|                     | Motor output         | kW                   | 0.92 x 1                            | 0.92 x 1   | 0.92 x 1                            | 0.92 x 1   | 0.92 x 1                    | 0.92 x 1                    |
|                     | External static pr   | ess.                 | 0 Pa (0 mmH <sub>2</sub> O)         | 0 Pa (0 mmH <sub>2</sub> O)  | 0 Pa (0 mmH <sub>2</sub> O)         | 0 Pa (0 mmH <sub>2</sub> O)  | 0 Pa (0 mmH <sub>2</sub> O) | 0 Pa (0 mmH <sub>2</sub> O) |
| Compressor          | Type x Quantity      |                      | Inverter scroll hermetic compressor |  | Inverter scroll hermetic compressor |  | pressor                     |                             |
|                     | Starting method      |                      | Inverter                            | Inverter   | Inverter                            | Inverter   | Inverter                    | Inverter                    |
|                     | Motor output         | kW                   | 6.9                                 | 6.9  | 10.4                                | 6.9  | 8.1                         | 10.4                        |
|                     | Case heater          | kW                   | -                                   | -  | -                                   | -  | -                           | -                           |
| External finish     |                      |                      |                                     | bated galvanized steel   |                                     | Pre-coated galvanized steel sheets   |                             |                             |
|                     |                      |                      |                                     | owder coating for -BS t  |                                     | (+powder coating for -BS type)   |                             |                             |
|                     |                      |                      |                                     | UNSELL 5Y 8/1 or simi  |                                     | <munsell 1="" 5y="" 8="" or="" similar=""></munsell>   |                             |                             |
| External dimension  | n HxWxD              | mm                   | 1,650 x 920 x 740                   | 1,650 x 920 x 740  | 1,650 x 1,220 x 740                 | 1,650 x 920 x 740  | 1,650 x 920 x 740           | 1,650 x 1,220 x 740         |
|                     |                      | in.                  |                                     | 65 x 36-1/4 x 29-3/16  |                                     | 65 x 36-1/4 x 29-3/16  |                             |                             |
| Protection          | High pressure pr     | otection             | High pressure sensor                | , High pressure switch   | at 4.15 MPa (601 psi)               | High pressure sensor, High pressure switch at 4.15 MPa (601 psi  |                             |                             |
| devices             | Inverter circuit (CO | MP./FAN)             |                                     | protection, Over-curren  |                                     |  | protection, Over-currer     |                             |
|                     | Compressor           |                      | Over-heat protection                | Over-heat protection   | Over-heat protection                | Over-heat protection   | Over-heat protection        | Over-heat protection        |
|                     | Fan motor            |                      |                                     | Over-current protection  | 1                                   |  | Over-current protection     | n                           |
| Refrigerant         | Type x original cl   | harge                | R410A x 6.5 kg (15 lbs)             | R410A x 6.5 kg (15 lbs)  | R410A x 11.5 kg (26 lbs)            | R410A x 6.5 kg (15 lbs)  | R410A x 6.5 kg (15 lbs)     | R410A x 11.5 kg (26 lbs)    |
| Net weight kg (lbs) |                      | 183 (404)            | 183 (404)                           | 237 (523)  | 183 (404)                           | 201 (444)  | 237 (523)                   |                             |
| Heat exchanger      |                      |                      |                                     | sistant cross fin & copp   |                                     |  | sistant cross fin & copp    |                             |
| Pipe between unit   | Liquid pipe          | mm (in.)             | 9.52 (3/8) Brazed                   | 9.52 (3/8) Brazed  | 12.7 (1/2) Brazed                   | 9.52 (3/8) Brazed  | 12.7 (1/2) Brazed           | 12.7 (1/2) Brazed           |
| and distributor     | Gas pipe             | mm (in.)             | 22.2 (7/8) Brazed                   | 22.2 (7/8) Brazed  | 28.58 (1-1/8) Brazed                | 22.2 (7/8) Brazed  | 22.2 (7/8) Brazed           | 28.58 (1-1/8) Brazed        |
| Optional parts      |                      |                      | Joint: CMY-Y                        | r Twinning kit: CMY-Y3<br>102SS/LS-G2, CMY-Y<br>der: CMY-Y104/108/10 | 202/302S-G2                         | 22.2 (76) biazed 22.2 (76) biazed 20.30 (1476) biazed<br>Outdoor Twinning kit: CMY-Y300VBK3<br>Joint: CMY-Y102S/LS-G2, CMY-Y202/302S-G2<br>Header: CMY-Y104/108/1010-G |                             |                             |

Notes:

\*1 Nominal cooling conditions (subject to JIS B8615-2)

|         | Indoor                               | Outdoor          | Pipe length       | Level difference |
|---------|--------------------------------------|------------------|-------------------|------------------|
| Cooling | 27°C DB/19°C WB<br>(81°F DB/66°F WB) | 35°C DB(95°F DB) | 7.5m (24-9/16ft.) | 0m (0ft.)        |

\*2 External static pressure option is available (30Pa, 60Pa / 3.1mmH<sub>2</sub>O, 6.1mmH<sub>2</sub>O).
 \*3 Reference data under condition of Indoor: 27°CD.B./19.5°CW.B. (81°FD.B./67°FW.B.), Outdoor: 35°CD.B. (95°FD.B.)
 \*Due to continuing improvement, above specification may be subject to change without notice.



Page 43

Notes:

| *1 | *1 Nominal cooling conditions (subject to JIS B8615-2) |                                      |                  |  |  |  |  |
|----|--|--------------------------------------|------------------|--|--|--|--|
|    |  | Indoor                               | Outdoor          |  |  |  |  |
|    | Cooling  | 27°C DB/19°C WB<br>(81°F DB/66°F WB) | 35°C DB(95°F DB) |  |  |  |  |

\*2 External static pressure option is available (30Pa, 60Pa / 3.1mmHzO, 6.1mmHzO).
 \*3 Reference data under condition of Indoor: 27°CD.B./19.5°CW.B. (81°FD.B./67°FW.B.), Outdoor: 35°CD.B. (95°FD.B.)
 \*Due to continuing improvement, above specification may be subject to change without notice.

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| Pipe length       | Level difference |
|-------------------|------------------|
| 7.5m (24-9/16ft.) | 0m (0ft.)        |



## ► Specifications

| Model               |                      |               | P                                       | PUCY-EP950YSKA (-BS)                       |   |  | PUCY-EP1000YSKA (-BS)                   |   |  |
|---------------------|----------------------|---------------|---|--|---|--|---|---|--|
| Power source        |                      |               | 3-phase 4-wire 380-400-415V 50/60Hz     |  |   | 3-phase 4-wire 380-400-415V 50/60Hz  |   |   |  |
| Cooling capacity    | *1                   | kW            |   | 107.0                                      |   | 113.5  |   |   |  |
| (Nominal)           |                      | kcal/h        |   | 92,000                                     |   |  | 97,600                                  |   |  |
| ( ,                 | *1                   | BTU / h       |   | 365,100                                    |   |  | 387,300                                 |   |  |
|                     | Power input          | kW            |   | 28.68                                      |   |  | 30.51                                   |   |  |
|                     | Current input        | A             |   | 48.4-45.9-44.3                             |   |  | 51.5-48.9-47.1                          |   |  |
|                     | EER                  | kW/kW         |   | 3.73                                       |   |  | 3.72                                    |   |  |
| Cooling capacity    | *3                   |               |   | 108.8                                      |   |  | 115.4                                   |   |  |
| Temp. range of      | Indoor               | W.B.          | 1                                       | 15.0~24.0°C (59~75°F                       | )                                       |  | 15.0~24.0°C (59~75°F                    | )                                       |  |
| cooling             | Outdoor              | D.B.          |   | 0.0~52.0°C (50~126°F                       |   |  | 10.0~52.0°C (50~126°F                   |   |  |
| Indoor unit         | Total capacity       | 0.0.          |   | 30% of outdoor unit ca                     | /                                       |  | 30% of outdoor unit ca                  | ,                                       |  |
| connectable         | Model / Quantity     |               | 50 10                                   | P15~P250/2~50                              | pacity                                  | 50 1   | P15~P250/2~50                           | paony                                   |  |
| Sound pressure le   |                      |               |   |  |   |  |   |   |  |
| (measured in ane    |                      | dB <a></a>    |   | 66   |   |  | 66                                      |   |  |
| Refrigerant piping  |                      | mm (in.)      |   | 19.05 (3/4) Brazed                         |   |  | 19.05 (3/4) Brazed                      |   |  |
| diameter            | Gas pipe             | mm (in.)      |   | 41.28 (1-5/8) Brazed                       |   |  | 41.28 (1-5/8) Brazed                    |   |  |
| Set Model           | Gas pipe             | 111111 (111.) |   | 41.20 (1-5/0) Didzeu                       |   |  | 41.20 (1-5/0) DIdZeu                    |   |  |
| Model               |                      |               | PUCY-P300YKA (-BS)                      | PUCY-P300YKA (-BS)                         | PUCY-P350YKA (-BS)                      | PUCY-P300YKA (-BS)   | PUCY-P350YKA (-BS)                      | PUCY-P350YKA (-BS)                      |  |
| FAN                 | Type x Quantity      |               | Propeller fan x 1                       | Propeller fan x 1                          | Propeller fan x 1                       | Propeller fan x 1  | Propeller fan x 1                       | Propeller fan x 1                       |  |
|                     | Air flow rate        | m³/min        | 175                                     | 175  | 175                                     | 175  | 175                                     | 175                                     |  |
|                     |                      | L/s           | 2.917                                   | 2.917                                      | 2.917                                   | 2.917  | 2.917                                   | 2,917                                   |  |
|                     |                      | cfm           | 6,179                                   | 6.179                                      | 6,179                                   | 6,179  | 6.179                                   | 6,179                                   |  |
|                     | Control, Driving me  |               | -,                                      | control, Direct-driven                     | -,                                      | -,   | -control. Direct-driven                 | -,                                      |  |
|                     | Motor output         | kW            | 0.92 x 1                                | 0.92 x 1                                   | 0.92 x 1                                | 0.92 x 1   | 0.92 x 1                                | 0.92 x 1                                |  |
| *2                  | External static pro  |               | 0.32 x 1<br>0 Pa (0 mmH <sub>2</sub> O) | 0.32 x 1<br>0 Pa (0 mmH <sub>2</sub> O)    | 0.32 X 1<br>0 Pa (0 mmH <sub>2</sub> O) | 0.32 X 1<br>0 Pa (0 mmH <sub>2</sub> O)  | 0.32 x 1<br>0 Pa (0 mmH <sub>2</sub> O) | 0.32 X 1<br>0 Pa (0 mmH <sub>2</sub> O) |  |
| Compressor          | Type x Quantity      | 633.          | Inverter scroll hermetic compressor     |  | Inverter scroll hermetic compressor     |  |   |   |  |
| Compressor          | Starting method      |               | Inverter                                | Inverter                                   | Inverter                                |  | Inverter                                | Inverter                                |  |
|                     |                      | kW            | 8.1                                     | 8.1  | 10.4                                    | Inverter<br>8.1  | 10.4                                    | 10.4                                    |  |
|                     | Motor output         | kW            |   | 0.1<br>_                                   |   |  | 10.4                                    |   |  |
| <b>F</b> ( ) ( ) (  | Case heater          | KVV           | -                                       |  | -                                       | -  |   | -                                       |  |
| External finish     |                      |               |   | ated galvanized steel                      |   | Pre-coated galvanized steel sheets   |   |   |  |
|                     |                      |               |   | owder coating for -BS                      |   | (+powder coating for -BS type)<br><munsell 1="" 5y="" 8="" or="" similar=""></munsell>                           |   |   |  |
| <b>F</b> ( ) ( ) (  |                      |               |   | JNSELL 5Y 8/1 or simi                      |   |  |   |   |  |
| External dimensio   | n HXWXD              | mm            | 1,650 x 920 x 740                       | 1,650 x 920 x 740                          | 1,650 x 1,220 x 740                     | 1,650 x 920 x 740  |   | 1,650 x 1,220 x 740                     |  |
| -                   |                      | in.           | 65 x 36-1/4 x 29-3/16                   |  |   |  | 65 x 48-1/16 x 29-3/16                  |   |  |
| Protection          | High pressure pro    |               |   |  |   | High pressure sensor, High pressure switch at 4.15 MPa (601 psi<br>Over-heat protection, Over-current protection |   |   |  |
| devices             | Inverter circuit (CO | MP./FAN)      |   | protection, Over-curren                    |   |  |   |   |  |
|                     | Compressor           |               |   |  | Over-heat protection                    |  | Over-heat protection                    |   |  |
| Fan motor           |                      |               | Over-current protection                 |  |   | Over-current protection  |   |   |  |
| Refrigerant         | Type x original ch   |               |   |  |   | R410A x 6.5 kg (15 lbs)  |   |   |  |
| Net weight kg (lbs) |                      | 201 (444)     | 201 (444)                               | 237 (523)                                  | 201 (444)                               | 237 (523)  | 237 (523)                               |   |  |
| Heat exchanger      |                      |               |   | sistant cross fin & copp                   |   |  | sistant cross fin & copp                |   |  |
| Pipe between unit   |                      | mm (in.)      | 12.7 (1/2) Brazed                       | 12.7 (1/2) Brazed                          | 12.7 (1/2) Brazed                       | 12.7 (1/2) Brazed  | 12.7 (1/2) Brazed                       | 12.7 (1/2) Brazed                       |  |
| and distributor     | Gas pipe             | mm (in.)      | 22.2 (7/8) Brazed                       | 22.2 (7/8) Brazed                          | 28.58 (1-1/8) Brazed                    | 22.2 (7/8) Brazed  | 28.58 (1-1/8) Brazed                    |   |  |
| Optional parts      |                      |               |   | Twinning kit: CMY-Y3                       |   |  |   |   |  |
|                     |                      |               |   |  |   |  |   |   |  |
|                     |                      |               | Head                                    | ter: CMY-Y104/108/10                       | 10-G                                    | Hea  | der: CMY-Y104/108/10                    | 10-G                                    |  |
|                     |                      |               | Joint: CMY-Y                            | 102SS/LS-G2, CMY-Y<br>der: CMY-Y104/108/10 | 202/302S-G2                             | Outdoor Twinning kit: CMY-Y300VBK3<br>Joint: CMY-Y102S5/LS-62, CMY-Y202/302S-G2<br>Header: CMY-Y104/108/1010-G   |   |   |  |

# OUTDOOR UNIT Y Series - Cooling-only PUCY-EP YSKA(-BS)

### ► Specifications

| Model               |                      |                     | PUCY-EP1050YSKA (-BS)   |  |                                       | PUCY-EP1100YSKA (-BS)  |                             |                             |
|---------------------|----------------------|---------------------|---|--|---------------------------------------|--|-----------------------------|-----------------------------|
| Power source        |                      | 3-phase             | 4-wire 380-400-415 V  | 50/60 Hz   | 3-phase 4-wire 380-400-415 V 50/60 Hz |  |                             |                             |
| Cooling capacity    | *1                   | kW                  |   | 120.0  |                                       | 124.0  |                             |                             |
|                     |                      | kcal/h              |   | 103,200  |                                       |  | 106,600                     |                             |
|                     | *1                   | BTU / h             |   | 409,400  |                                       |  | 423,100                     |                             |
|                     | Power input          | kW                  |   | 32.34  |                                       |  | 34.25                       |                             |
|                     | Current input        | A                   |   | 54.5-51.8-49.9   |                                       |  | 57.8-54.9-52.9              |                             |
|                     | EER                  | kW / kW             |   | 3.71   |                                       |  | 3.62                        |                             |
| Cooling capacity    | *3                   |                     |   | 122.0  |                                       |  | 126.1                       |                             |
|                     | Indoor               | W.B.                |   | 15.0~24.0°C (59~75°F   | )                                     |  | 15.0~24.0°C (59~75°F        | 1                           |
| coolina             | Outdoor              | D.B.                |   | 0.0~52.0°C (50~126°F   | /                                     |  | 0.0~52.0°C (50~126°         | /                           |
| Indoor unit         | Total capacity       | 0.0.                |   | 30% of outdoor unit ca   |                                       |  | 30% of outdoor unit ca      |                             |
|                     | Model / Quantity     |                     | 50 1.   | P15~P250/2~50  | pacity                                | 50 1   | P15~P250/2~50               | pacity                      |
| Sound pressure le   |                      |                     |   | F 13~F 230/2~30  |                                       |  | F 13~F 230/2~30             |                             |
| (measured in anec   |                      | dB <a></a>          |   | 66   |                                       |  | 67                          |                             |
| Refrigerant piping  |                      | mm (in.)            |   | 19.05 (3/4) Brazed   |                                       |  | 19.05 (3/4) Brazed          |                             |
| diameter            | Gas pipe             | mm (in.)            |   | 41.28 (1-5/8) Brazed   |                                       |  | 41.28 (1-5/8) Brazed        |                             |
| Set Model           | Gas pipe             | mm (in.)            |   | 41.20 (1-5/6) Blazeu   |                                       |  | 41.20 (1-3/0) Brazeu        |                             |
| Model               |                      |                     |   |  |                                       | PUCY-P350YKA (-BS)   |                             | DUCY DA00VICA ( DC          |
| FAN                 | Type x Quantity      |                     | Propeller fan x 1   | Propeller fan x 1  | Propeller fan x 1                     | Propeller fan x 1  | Propeller fan x 1           | Propeller fan x 1           |
| FAIN                |                      |                     |   |  |                                       |  |                             |                             |
|                     | Air flow rate        | m <sup>3</sup> /min | 175   | 175  | 175                                   | 175  | 175                         | 175                         |
|                     |                      | L/s                 | 2,917   | 2,917  | 2,917                                 | 2,917  | 2,917                       | 2,917                       |
|                     |                      | cfm                 | 6,179   | 6,179  | 6,179                                 | 6,179  | 6,179                       | 6,179                       |
|                     | Control, Driving me  |                     |   | -control, Direct-driven b  |                                       |  | -control, Direct-driven     |                             |
|                     | Motor output         | kW                  | 0.92 x 1  | 0.92 x 1   | 0.92 x 1                              | 0.92 x 1   | 0.92 x 1                    | 0.92 x 1                    |
| *2                  | External static pr   | ess.                | 0 Pa (0 mmH <sub>2</sub> O)   | 0 Pa (0 mmH <sub>2</sub> O)  | 0 Pa (0 mmH <sub>2</sub> O)           | 0 Pa (0 mmH <sub>2</sub> O)  | 0 Pa (0 mmH <sub>2</sub> O) | 0 Pa (0 mmH <sub>2</sub> O) |
| Compressor          | Type x Quantity      |                     | Inverte   | er scroll hermetic comp  | oressor                               | Inverte  | er scroll hermetic comp     | pressor                     |
|                     | Starting method      |                     | Inverter  | Inverter   | Inverter                              | Inverter   | Inverter                    | Inverter                    |
|                     | Motor output         | kW                  | 10.4  | 10.4   | 10.4                                  | 10.4   | 10.4                        | 10.8                        |
|                     | Case heater          | kW                  | -   | -  | -                                     | -  | -                           | -                           |
| External finish     |                      |                     | Pre-coated galvanized steel sheets  |  | Pre-coated galvanized steel sheets    |  |                             |                             |
|                     |                      |                     | (+p   | owder coating for -BS t  | type)                                 | (+powder coating for -BS type)   |                             |                             |
|                     |                      |                     | <mu< td=""><td>UNSELL 5Y 8/1 or simi</td><td>ilar&gt;</td><td colspan="3"><munsell 1="" 5y="" 8="" or="" similar=""></munsell></td></mu<> | UNSELL 5Y 8/1 or simi  | ilar>                                 | <munsell 1="" 5y="" 8="" or="" similar=""></munsell>   |                             |                             |
| External dimensior  | n HxWxD              | mm                  | 1,650 x 1,220 x 740   | 1,650 x 1,220 x 740  | 1,650 x 1,220 x 740                   | 1,650 x 1,220 x 740  | 1,650 x 1,220 x 740         | 1,650 x 1,220 x 740         |
|                     |                      | in.                 | 65 x 48-1/16 x 29-3/16  | 65 x 48-1/16 x 29-3/16   | 65 x 48-1/16 x 29-3/16                | 65 x 48-1/16 x 29-3/16   | 65 x 48-1/16 x 29-3/16      | 65 x 48-1/16 x 29-3/16      |
| Protection          | High pressure pr     | otection            | High pressure sensor  | , High pressure switch   | at 4.15 MPa (601 psi)                 | High pressure sensor, High pressure switch at 4.15 MPa (601 ps   |                             |                             |
| devices             | Inverter circuit (CO | MP./FAN)            | Over-heat p   | protection, Over-curren  | t protection                          | Over-heat  | protection, Over-currer     | nt protection               |
|                     | Compressor           |                     | Over-heat protection  | Over-heat protection   | Over-heat protection                  | Over-heat protection   | Over-heat protection        | Over-heat protection        |
|                     | Fan motor            |                     |   | Over-current protection  | ,                                     |  | Over-current protection     | י <u></u>                   |
| Refrigerant         | Type x original cl   | harge               |   |  |                                       | R410A x 11.5 kg (26 lbs)   |                             |                             |
| Net weight kg (lbs) |                      | 237 (523)           | 237 (523)   | 237 (523)  | 237 (523)                             | 237 (523)  | 237 (523)                   |                             |
| Heat exchanger      |                      |                     | Salt-res  | sistant cross fin & copp   | ber tube                              | Salt-re:   | sistant cross fin & copp    | per tube                    |
| Pipe between unit   | Liquid pipe          | mm (in.)            | 12.7 (1/2) Brazed   | 12.7 (1/2) Brazed  | 12.7 (1/2) Brazed                     | 12.7 (1/2) Brazed  | 12.7 (1/2) Brazed           | 15.88 (5/8) Brazed          |
| and distributor     | Gas pipe             |                     |   |  |                                       |  |                             |                             |
| Optional parts      |                      | , , , , , ,         | Outdoor<br>Joint: CMY-Y   | 28.58 (1-1/8) Brazed 28.58 (1-1/8) Brazed 28.58 (1-1/8) Brazed<br>Outdoor Twinning kit: CMY-Y300VBK3<br>Joint: CMY-Y102SS/LS-G2, CMY-Y202/302S-G2<br>Header: CMY-Y104/108/1010-G |                                       | Outdoor Twinning kit: CMY-Y300VBK3<br>Joint: CMY-Y102SS/LS-G2, CMY-Y202/302S-G2<br>Header: CMY-Y104/108/1010-G |                             |                             |

Notes:

\*1 Nominal cooling conditions (subject to JIS B8615-2)

|         | Indoor                               | Outdoor          | Pipe length       | Level difference |
|---------|--------------------------------------|------------------|-------------------|------------------|
| Cooling | 27°C DB/19°C WB<br>(81°F DB/66°F WB) | 35°C DB(95°F DB) | 7.5m (24-9/16ft.) | 0m (0ft.)        |

 \*2 External static pressure option is available (30Pa, 60Pa / 3.1mmH<sub>2</sub>O, 6.1mmH<sub>2</sub>O).
 \*3 Reference data under condition of Indoor: 27°CD.B./19.5°CW.B. (81°FD.B./67°FW.B.), Outdoor: 35°CD.B. (95°FD.B.) \*Due to continuing improvement, above specification may be subject to change without notice



Notes:

| *1 | *1 Nominal cooling conditions (subject to JIS B8615-2) |                                      |                  |  |  |  |  |
|----|--|--------------------------------------|------------------|--|--|--|--|
|    |  | Indoor                               | Outdoor          |  |  |  |  |
|    | Cooling  | 27°C DB/19°C WB<br>(81°F DB/66°F WB) | 35°C DB(95°F DB) |  |  |  |  |

\*2 External static pressure option is available (30Pa, 60Pa / 3.1mmHzO, 6.1mmHzO).
 \*3 Reference data under condition of Indoor: 27°CD.B./19.5°CW.B. (81°FD.B./67°FW.B.), Outdoor: 35°CD.B. (95°FD.B.)
 \*Due to continuing improvement, above specification may be subject to change without notice.



| Pipe length       | Level difference |
|-------------------|------------------|
| 7.5m (24-9/16ft.) | 0m (0ft.)        |



# OUTDOOR UNIT S Series PUMY-P VKM(-BS)



## ► Specifications

| Model                                  |                      | PUMY-P112VKM(-BS)               | PUMY-P125VKM(-BS)  | PUMY-P140VKM(-BS)  |  |
|--|----------------------|---------------------------------|--|--|--|
| Power source                           |                      |                                 | 1-phase 220-240V 50Hz  | 1-phase 220-240V 50Hz  | 1-phase 220-240V 50Hz  |
| Cooling capacity                       | *1                   | kW                              | 12.5   | 14.0   | 15.5   |
| (Nominal)                              | *1                   | BTU / h                         | 42,700   | 47,800   | 52,900   |
|  | Power input          | kW                              | 2.79   | 3.46   | 4.52   |
|  | Current input        | A                               | 12.87-12.32-11.80  | 15.97-15.27-14.64  | 20.86-19.95-19.12  |
|  | EER                  | kW / kW                         | 4.48   | 4.05   | 3.43   |
| Temp. range of                         | Indoor temp.         | W.B.                            | 15.0~24.0°C(59~75°F)   | 15.0~24.0°C(59~75°F)   | 15.0~24.0°C(59~75°F)   |
| cooling                                | Outdoor temp.        | D.B.                            | -5.0~46.0°C(23~115°F)  | -5.0~46.0°C(23~115°F)  | -5.0~46.0°C(23~115°F)  |
| Heating capacity                       | *2                   | kW                              | 14.0   | 16.0   | 18.0   |
| (Nominal)                              | *2                   | BTU / h                         | 47,800   | 54,600   | 61,400   |
|  | Power input          | kW                              | 3.04   | 3.74   | 4.47   |
|  | Current input        | A                               | 14.03-13.42-12.86  | 17.26-16.51-15.82  | 20.63-19.73-18.91  |
|  | COP                  | kW / kW                         | 4.61   | 4.28   | 4.03   |
| Temp. range of                         | Indoor temp.         | D.B.                            | 15.0~27.0°C(59~81°F)   | 15.0~27.0°C(59~81°F)   | 15.0~27.0°C(59~81°F)   |
| heating                                | Outdoor temp.        | W.B.                            | -20.0~15.5°C(-4~60°F)  | -20.0~15.5°C(-4~60°F)  | -20.0~15.5°C(-4~60°F)  |
| Indoor unit                            | Total capacity       |                                 | 50~130 % of outdoor unit capacity                                  | 50~130 % of outdoor unit capacity                                  | 50~130 % of outdoor unit capacity                                  |
| connectable                            | Model / Quantity     |                                 | P15~P140 / 9   | P15~P140 / 10  | P15~P140 / 12  |
| Sound pressure le<br>(measured in anex |                      | dB <a></a>                      | 49 / 51  | 50 / 52  | 51 / 53  |
| Refrigerant piping                     | Liquid pipe          | mm (in.)                        | 9.52(3/8) Flare  | 9.52(3/8) Flare  | 9.52(3/8) Flare  |
| diameter                               | Gas pipe             | mm (in.)                        | 15.88(5/8) Flare   | 15.88(5/8) Flare   | 15.88(5/8) Flare   |
| FAN                                    | Type x Quantity      |                                 | Propeller Fan x 2  | Propeller Fan x 2  | Propeller Fan x 2  |
|  | Air flow rate        | m³/min                          | 110  | 110  | 110  |
|  |                      | L/s                             | 1,833  | 1,833  | 1,833  |
|  |                      | cfm                             | 3,884  | 3,884  | 3,884  |
|  | Motor output         | kW                              | 0.06 + 0.06  | 0.06 + 0.06  | 0.06 + 0.06  |
| Compressor                             | Type x Quantity      |                                 | Scroll hermetic compressor x 1                                     | Scroll hermetic compressor x 1                                     | Scroll hermetic compressor x 1                                     |
|  | Starting method      |                                 | Inverter   | Inverter   | Inverter   |
|  | Motor output kW      |                                 | 2.9  | 3.5  | 3.9  |
| External finish                        |                      |                                 | Galvanized Steel Sheet<br>Munsell No. 3Y 7.8/1.1                   | Galvanized Steel Sheet<br>Munsell No. 3Y 7.8/1.1                   | Galvanized Steel Sheet<br>Munsell No. 3Y 7.8/1.1                   |
| External dimension                     | n HxWxD              | mm                              | 1,338 x 1,050 x 330 (+25)  | 1,338 x 1,050 x 330 (+25)  | 1,338 x 1,050 x 330 (+25)  |
|  |                      | in.                             | 52-11/16 x 41-11/32 x 13 (+1)                                      | 52-11/16 x 41-11/32 x 13 (+1)                                      | 52-11/16 x 41-11/32 x 13 (+1)                                      |
| Protection                             | High pressure pr     | otection                        | High pressure Switch   | High pressure Switch   | High pressure Switch   |
| devices                                | Inverter circuit (CC | MP./FAN)                        | Overcurrent detection, Overheat detection<br>(Heatsink thermistor) | Overcurrent detection, Overheat detection<br>(Heatsink thermistor) | Overcurrent detection, Overheat detection<br>(Heatsink thermistor) |
|  | Compressor           |                                 | Compressor thermistor, Over current detection                      | Compressor thermistor, Over current detection                      | Compressor thermistor, Over current detection                      |
| Fan motor                              |                      | Overheating, Voltage protection | Overheating, Voltage protection                                    | Overheating, Voltage protection                                    |  |
| Refrigerant                            | Type x original cl   | narge                           | R410A 4.8kg  | R410A 4.8kg  | R410A 4.8kg  |
| Net weight                             |                      | kg (lbs)                        | 123(272)   | 123(272)   | 123(272)   |
| Heat exchanger                         |                      |                                 | Cross Fin and Copper tube  | Cross Fin and Copper tube  | Cross Fin and Copper tube  |
| Defrosting method                      |                      |                                 | Reversed refrigerant circuit                                       | Reversed refrigerant circuit                                       | Reversed refrigerant circuit                                       |
| Optional parts                         |                      |                                 | Joint: CMY-Y62-G-E   | Joint: CMY-Y62-G-E   | Joint: CMY-Y62-G-E   |
|  |                      |                                 | Header: CMY-Y64/68-G-E   | Header: CMY-Y64/68-G-E   | Header: CMY-Y64/68-G-E   |

## OUTDOOR UNIT S Series PUMY-P YKM(-BS)

## ► Specifications

| Model                              |                      | PUMY-P112YKM(-BS)               | PUMY-P125YKM(-BS)  | PUMY-P140YKM(-BS)  |  |
|------------------------------------|----------------------|---------------------------------|--|--|--|
| Power source                       |                      |                                 | 3-phase 380-415V 50Hz  | 3-phase 380-415V 50Hz  | 3-phase 380-415V 50Hz  |
| Cooling capacity                   | *1                   | kW                              | 12.5   | 14.0   | 15.5   |
| (Nominal)                          | *1                   | BTU / h                         | 42,700   | 47,800   | 52,900   |
|                                    | Power input          | kW                              | 2.79   | 3.46   | 4.52   |
|                                    | Current input        | A                               | 4.46-4.24-4.09   | 5.53-5.26-5.07   | 7.23-6.87-6.62   |
|                                    | EER                  | kW / kW                         | 4.48   | 4.05   | 3.43   |
| Temp. range of                     | Indoor temp.         | W.B.                            | 15.0~24.0°C(59~75°F)   | 15.0~24.0°C(59~75°F)   | 15.0~24.0°C(59~75°F)   |
| cooling                            | Outdoor temp.        | D.B.                            | -5.0~46.0°C(23~115°F)  | -5.0~46.0°C(23~115°F)  | -5.0~46.0°C(23~115°F)  |
| Heating capacity                   | *2                   | kW                              | 14.0   | 16.0   | 18.0   |
| (Nominal)                          | *2                   | BTU / h                         | 47.800   | 54,600   | 61.400   |
|                                    | Power input          | kW                              | 3.04   | 3.74   | 4.47   |
|                                    | Current input        | A                               | 4.86-4.62-4.45   | 5.98-5.68-5.48   | 7.15-6.79-6.55   |
|                                    | COP                  | kW / kW                         | 4.61   | 4.28   | 4.03   |
| Temp. range of                     | Indoor temp.         | D.B.                            | 15.0~27.0°C(59~81°F)   | 15.0~27.0°C(59~81°F)   | 15.0~27.0°C(59~81°F)   |
| heating                            | Outdoor temp.        | W.B.                            | -20.0~15.5°C(-4~60°F)  | -20.0~15.5°C(-4~60°F)  | -20.0~15.5°C(-4~60°F)  |
| Indoor unit                        | Total capacity       | W.D.                            | 50~130 % of outdoor unit capacity                                  | 50~130 % of outdoor unit capacity                                  | 50~130 % of outdoor unit capacity                                  |
| connectable                        | Model / Quantity     |                                 | P15~P140 / 9   | P15~P140 / 10  | P15~P140 / 12  |
| Sound pressure le                  |                      |                                 | F 15~F 1407 9  | F 13~F 1407 10   | F 13~F 1407 12   |
| (measured in ane                   | choic room)          | dB <a></a>                      | 49 / 51  | 50 / 52  | 51 / 53  |
| Refrigerant piping                 |                      | mm (in.)                        | 9.52(3/8) Flare  | 9.52(3/8) Flare  | 9.52(3/8) Flare  |
| diameter                           | Gas pipe             | mm (in.)                        | 15.88(5/8) Flare   | 15.88(5/8) Flare   | 15.88(5/8) Flare   |
| FAN                                | Type x Quantity      |                                 | Propeller Fan x 2  | Propeller Fan x 2  | Propeller Fan x 2  |
|                                    | Air flow rate        | m³/min                          | 110  | 110  | 110  |
|                                    |                      | L/s                             | 1,833  | 1,833  | 1,833  |
|                                    |                      | cfm                             | 3,884  | 3,884  | 3,884  |
|                                    | Motor output         | kW                              | 0.06 + 0.06  | 0.06 + 0.06  | 0.06 + 0.06  |
| Compressor                         | Type x Quantity      |                                 | Scroll hermetic compressor x 1                                     | Scroll hermetic compressor x 1                                     | Scroll hermetic compressor x 1                                     |
|                                    | Starting method      |                                 | Inverter   | Inverter   | Inverter   |
|                                    | Motor output         | kW                              | 2.9  | 3.5  | 3.9  |
| External finish                    |                      |                                 | Galvanized Steel Sheet<br>Munsell No. 3Y 7.8/1.1                   | Galvanized Steel Sheet<br>Munsell No. 3Y 7.8/1.1                   | Galvanized Steel Sheet<br>Munsell No. 3Y 7.8/1.1                   |
| External dimensio                  | n HxWxD              | mm                              | 1,338 x 1,050 x 330 (+25)  | 1,338 x 1,050 x 330 (+25)  | 1,338 x 1,050 x 330 (+25)  |
|                                    |                      | in.                             | 52-11/16 x 41-11/32 x 13 (+1)                                      | 52-11/16 x 41-11/32 x 13 (+1)                                      | 52-11/16 x 41-11/32 x 13 (+1)                                      |
| Protection                         | High pressure pr     |                                 | High pressure Switch   | High pressure Switch   | High pressure Switch   |
| devices                            | Inverter circuit (CC | MP./FAN)                        | Overcurrent detection, Overheat detection<br>(Heatsink thermistor) | Overcurrent detection, Overheat detection<br>(Heatsink thermistor) | Overcurrent detection, Overheat detection<br>(Heatsink thermistor) |
|                                    | Compressor           |                                 | Compressor thermistor, Over current detection                      | Compressor thermistor, Over current detection                      | Compressor thermistor, Over current detection                      |
| Fan motor                          |                      | Overheating, Voltage protection | Overheating, Voltage protection                                    | Overheating, Voltage protection                                    |  |
| Refrigerant Type x original charge |                      | R410A 4.8kg                     | R410A 4.8kg  | R410A 4.8kg  |  |
| Net weight                         |                      | kg (lbs)                        | 125(276)   | 125(276)   | 125(276)   |
| Heat exchanger                     |                      |                                 | Cross Fin and Copper tube  | Cross Fin and Copper tube  | Cross Fin and Copper tube  |
| Defrosting method                  | 1                    |                                 | Reversed refrigerant circuit                                       | Reversed refrigerant circuit                                       | Reversed refrigerant circuit                                       |
| Optional parts                     |                      |                                 | Joint: CMY-Y62-G-E   | Joint: CMY-Y62-G-E   | Joint: CMY-Y62-G-E   |
|                                    |                      |                                 | Header: CMY-Y64/68-G-E   | Header: CMY-Y64/68-G-E   | Header: CMY-Y64/68-G-E   |

Notes:

| Nominal conditio | ns                                   |                                |                   |                  |
|------------------|--------------------------------------|--------------------------------|-------------------|------------------|
|                  | Indoor                               | Outdoor                        | Pipe length       | Level difference |
| Cooling          | 27°C DB/19°C WB<br>(81°F DB/66°F WB) | 35°C DB(95°F DB)               | 7.5m (24-9/16ft.) | 0m (0ft.)        |
| Heating          | 20°C DB(68°F DB)                     | 7°C DB/6°C WB(45°F DB/43°F WB) | 7.5m (24-9/16ft.) | 0m (0ft.)        |

\*Nominal condition \*1,\*2 are subject to ISO 15042.

\*Due to continuing improvement, above specification may be subject to change without notice.



Notes: \*1.\*2 Nominal condition

|         | Indoor                               | Outdoor                        | Pipe length       | Level difference |
|---------|--------------------------------------|--------------------------------|-------------------|------------------|
| Cooling | 27°C DB/19°C WB<br>(81°F DB/66°F WB) | 35°C DB(95°F DB)               | 7.5m (24-9/16ft.) | 0m (0ft.)        |
| Heating | 20°C DB(68°F DB)                     | 7°C DB/6°C WB(45°F DB/43°F WB) | 7.5m (24-9/16ft.) | 0m (0ft.)        |

\*Nominal condition \*1,\*2 are subject to ISO 15042.

\*Due to continuing improvement, above specification may be subject to change without notice.





## OUTDOOR UNIT Y Series PUHY-P YHA(-BS)



## ► Specifications

|  |                  |              | PUHY-P200YHA(-BS)                | PUHY-P250YHA(-BS)  | PUHY-P300YHA(-BS)                       |  |  |  |
|--|------------------|--------------|----------------------------------|--|---|--|--|--|
| Power source   | ce               |              |                                  | 3-phase 4-wire 380-400-415V 50/60Hz  |   |  |  |  |
| Cooling cap  | acity *1         | kW           | 22.4                             | 28.0   | 33.5                                    |  |  |  |
| (Nominal)  | • *1             | BTU/h        | 76,400                           | 95,500   | 114,300                                 |  |  |  |
|  | Power input      | kW           | 5.72                             | 7.73   | 9.07                                    |  |  |  |
|  | Current input    | A            | 9.6-9.1-8.8                      | 13.0-12.3-11.9   | 15.3-14.5-14.0                          |  |  |  |
|  | EER (kW/k)       | N)           | 3.91                             | 3.62   | 3.69                                    |  |  |  |
| Cooling cap  | acity *3         | kW           | 22.8                             | 28.5   | 34.1                                    |  |  |  |
| Гemp.  | Indoor           | W.B.         |                                  | 15~24°C(59~75°F)   |   |  |  |  |
| ange of<br>cooling   | Outdoor          | D.B.         |                                  | - 5~46°C(23~115°F)   |   |  |  |  |
| Heating cap  | acity *2         | kW           | 25.0                             | 31.5   | 37.5                                    |  |  |  |
| (Nominal)  | *2               | BTU/h        | 85.300                           | 107,500  | 128,000                                 |  |  |  |
|  | Power input      | kW           | 6.03                             | 7.83   | 9.39                                    |  |  |  |
|  | Current input    | A            | 10.1-9.6-9.3                     | 13.2-12.5-12.1   | 15.8-15.0-14.5                          |  |  |  |
|  | COP (kW/k        | W)           | 4.14                             | 4.02   | 3.99                                    |  |  |  |
| Temp.  | Indoor temp.     | D.B.         |                                  | 15~27°C(59~81°F)   |   |  |  |  |
| ange<br>of heating   | Outdoor temp W B |              |                                  | -20~15.5°C(-4~60°F)  |   |  |  |  |
|  | Total capac      | itv          |                                  | 50~130% of outdoor unit capacity   |   |  |  |  |
|  | Model/Quar       |              | P15~P250 / 1~17                  | P15~P250 / 1~21  | P15~P250 / 1~26                         |  |  |  |
| Sound pressure level (measured in anechoic room) dB <a></a>    |                  | dB <a></a>   | 56                               | 57   | 59                                      |  |  |  |
| Power pressure level<br>(measured in anechoic room) dB <a></a> |                  | dB <a></a>   | 76                               | 77   | 79                                      |  |  |  |
| Diameter of  | ,                |              |                                  | ø9.52 (ø3/8) Brazed  | ø9.52 (ø3/8) Brazed                     |  |  |  |
| efrigerant pipe  | Liquid           | mm(in.)      | ø9.52 (ø3/8) Brazed              | (ø12.7 (ø1/2) Brazed , total length >=90m)   | (ø12.7 (ø1/2) Brazed, total length>=40r |  |  |  |
| • • •  | Gas              | mm(in.)      | ø19.05 (ø3/4) Brazed             | ø22.2 (ø7/8) Brazed  | ø22.2 (ø7/8) Brazed                     |  |  |  |
| External fini  | sh               |              | Pre-coated galvanized ste        | el sheets (+ powder coating for-BS type) <mun< td=""><td>SELL 3.0Y 7.8/11 or similar&gt;</td></mun<> | SELL 3.0Y 7.8/11 or similar>            |  |  |  |
| External dimens  |                  | mm           | 1,650 x 920 x 760                | 1,650 x 920 x 760  | 1,650 x 920 x 760                       |  |  |  |
| External dimens  | SION H X W X D   | in.          | 65 x 36-1/4 x 29-15/16           | 65 x 36-1/4 x 29-15/16   | 65 x 36-1/4 x 29-15/16                  |  |  |  |
| Vet weight   |                  | kg(lbs)      | 185 (408)                        | 200 (441)  | 215 (474)                               |  |  |  |
| leat exchar  | nger             |              |                                  | Salt-resistant cross fin & copper tube   |   |  |  |  |
|  | Туре             |              |                                  | Inverter scroll hermetic compressor  |   |  |  |  |
| Compressor   | Starting me      | thod         |                                  | Inverter   |   |  |  |  |
|  | Motor output     | kW           | 5.4                              | 6.7  | 8.2                                     |  |  |  |
|  |                  | m³/min       | 185                              | 185  | 185                                     |  |  |  |
|  | Air flow rate    | L/s          | 3,083                            | 3,083  | 3,083                                   |  |  |  |
| AN   |                  | cfm          | 6,532                            | 6,532  | 6,532                                   |  |  |  |
|  | Type x Qua       | ntity        | Propeller fan x 1                | Propeller fan x 1  | Propeller fan x 1                       |  |  |  |
|  | Motor output     | kW           | 0.92 x 1                         | 0.92 x 1   | 0.92 x 1                                |  |  |  |
|  | High pressure    | e protection | High pre                         | essure sensor, High pressure switch at 4.15 MP   | a (601 psi)                             |  |  |  |
| Protection   | Inverter circ    | uit          |                                  | Over-current protection  |   |  |  |  |
| devices  | Fan motor        |              | Thermal switch                   | Thermal switch   | Thermal switch                          |  |  |  |
| Refrigerant  | Type x Origii    | nal charge   | R410A x 6.5kg (15 lbs)           | R410A x 9.0kg (20 lbs)   | R410A x 9.0kg (20 lbs)                  |  |  |  |
|  |                  | Ŭ            | joint : CMY-Y102SS-G2            |  |   |  |  |  |
| Optional parts   |                  |              | Header : CMY-Y104 / 108 / 1010-G | joint : CMY-Y102SS / LS-G2<br>Header : CMY-Y104 / 108 / 1010-G                                       |   |  |  |  |

## OUTDOOR UNIT Y Series PUHY-P YHA(-BS)

## ► Specifications

|  |                            |            | PUHY-P350YHA(-BS)           | PUHY-P400YHA(-BS)   | PUHY-P450YHA(-BS)            |
|--|----------------------------|------------|-----------------------------|---|------------------------------|
| Power sour   | се                         |            |                             | 3-phase 4-wire 380-400-415V 50/60Hz   |                              |
| Cooling cap  | acity *1                   | kW         | 40.0                        | 45.0  | 50.0                         |
| (Nominal)  | *1                         | BTU/h      | 136,500                     | 153,500   | 170,600                      |
|  | Power input                | kW         | 11.20                       | 13.23   | 16.66                        |
|  | Current input              | A          | 18.9-17.9-17.3              | 22.3-21.2-20.4  | 28.1-26.7-25.7               |
|  | EER (kW/kV                 | N)         | 3.57                        | 3.40  | 3.00                         |
| Cooling cap  | acity *3                   | kW         | 40.7                        | 45.8  | 50.9                         |
| Temp.  | Indoor                     | W.B.       |                             | 15~24°C (59~75°F)   |                              |
| range of cooling   | Outdoor                    | D.B.       |                             | - 5~46°C (23~115°F)   |                              |
| Heating cap  | acity *2                   | kW         | 45.0                        | 50.0  | 52.0                         |
| (Nominal)  | *2                         | BTU/h      | 153,500                     | 170,600   | 177,400                      |
| . ,  | Power input                | kW         | 12.09                       | 13.47   | 15.85                        |
|  | Current input              | A          | 20.4-19.3-18.6              | 22.7-21.6-20.8  | 26.7-25.4-24.5               |
|  | COP (kW/k)                 |            | 3.72                        | 3.71  | 3.28                         |
| Temp.  | Indoor temp.               | D.B.       |                             | 15~27°C (59~81°F)   |                              |
| range<br>of heating Outdoor temp. W.B.                         |                            |            |                             | -20~15.5°C (-4~60°F)  |                              |
| Indoor unit Total capacity                                     |                            | ty         |                             | 50~130% of outdoor unit capacity  |                              |
| connectable  | connectable Model/Quantity |            | P15~P250 / 1~30             | P15~P250 / 1~34   | P15~P250 / 1~39              |
| Sound pressure level<br>(measured in anechoic room) dB <a></a> |                            | dB <a></a> | 60                          | 61  | 62                           |
| Power press<br>(measured in a                                  |                            | dB <a></a> | 80                          | 81  | 82                           |
| Diameter of  | Liquid                     | mm(in.)    | ø12.7 (ø1/2) Brazed         | ø12.7 (ø1/2) Brazed   | ø15.88 (ø5/8) Brazed         |
| refrigerant pipe   | Gas                        | mm(in.)    | ø28.58 (ø1-1/8) Brazed      | ø28.58 (ø1-1/8) Brazed  | ø28.58 (ø1-1/8) Brazed       |
| External fini  | ish                        |            | Pre-coated galvanized steel | sheets (+ powder coating for-BS type) <muns< td=""><td>SELL 3.0Y 7.8/11 or similar&gt;</td></muns<> | SELL 3.0Y 7.8/11 or similar> |
| Esternal dimension   | in Huwer                   | mm         | 1,650 x 1,220 x 760         | 1,650 x 1,220 x 760   | 1,650 x 1,220 x 760          |
| External dimens  | SION H X W X D             | in.        | 65 x 48-1/16 x 29-15/16     | 65 x 48-1/16 x 29-15/16   | 65 x 48-1/16 x 29-15/16      |
| Net weight   |                            | kg(lbs)    | 245 (541)                   | 245 (541)   | 245 (541)                    |
| Heat excha   | nger                       | ,          | . /                         | Salt-resistant cross fin & copper tube  |                              |
|  | Туре                       |            |                             | Inverter scroll hermetic compressor   |                              |
| Compressor   | Starting me                | thod       |                             | Inverter  |                              |
|  | Motor output               | kW         | 10.3                        | 10.5  | 12.0                         |
|  |                            | m³/min     | 225                         | 225   | 225                          |
|  | Air flow rate              | L/s        | 3,750                       | 3,750   | 3,750                        |
| FAN  |                            | cfm        | 7,945                       | 7,945   | 7,945                        |
|  | Type x Qua                 |            | Propeller fan x 1           | Propeller fan x 1   | Propeller fan x 1            |
|  | Motor output               | kW         | 0.92 x 1                    | 0.92 x 1  | 0.92 x 1                     |
|  | High pressure              |            |                             | sure sensor, High pressure switch at 4.15 MPa   |                              |
| Protection   | Inverter circ              |            | r iigii pico                | Over-current protection   | · ( · F-·)                   |
| devices  | Fan motor                  |            | Thermal switch              | Thermal switch  | Thermal switch               |
| Refrigerant  | Type x Origin              | al charge  | R410A x 11.5kg (26 lbs)     | R410A x 11.5kg (26 lbs)   | R410A x 11.5kg (26 lbs)      |
| Optional pa  |                            | iai onargo | 1100 A 11.009 (20100)       | joint : CMY-Y102SS / LS-G2, CMY-Y202S-G2<br>Header : CMY-Y104 / 108 / 1010-G                        | <u> </u>                     |

#### Notes:

\*1,\*2 Nominal conditions

|         | Indoor                               | Indoor Outdoor                 |                   | Level difference |
|---------|--------------------------------------|--------------------------------|-------------------|------------------|
| Cooling | 27°C DB/19°C WB<br>(81°F DB/66°F WB) | 35°C DB(95°F DB)               | 7.5m (24-9/16ft.) | 0m (0ft.)        |
| Heating | 20°C DB(68°F DB)                     | 7°C DB/6°C WB(45°F DB/43°F WB) | 7.5m (24-9/16ft.) | 0m (0ft.)        |

\*3 Reference data under condition of Indoor 27°C DB/19.5°C WB(81°F DB/67°F WB) Outdoor 35°C DB(95°F DB) \*Nominal condition \*1,\*2 are subject to JIS B8615-2. \*Due to continuing improvement, above specification may be subject to change without notice.



Notes:

|         | Indoor                               | Outdoor                        | Pipe length       | Level difference |
|---------|--------------------------------------|--------------------------------|-------------------|------------------|
| Cooling | 27°C DB/19°C WB<br>(81°F DB/66°F WB) | 35°C DB(95°F DB)               | 7.5m (24-9/16ft.) | 0m (0ft.)        |
| Heating | 20°C DB(68°F DB)                     | 7°C DB/6°C WB(45°F DB/43°F WB) | 7.5m (24-9/16ft.) | 0m (0ft.)        |

\*3 Reference data under condition of Indoor 27°C DB/19.5°C WB(81°F DB/67°F WB) Outdoor 35°C DB(95°F DB) \*Nominal condition \*1,\*2 are subject to JIS B8615-2. \*Due to continuing improvement, above specification may be subject to change without notice.





# OUTDOOR UNIT Y Series PUHY-P YSHA(-BS)

## ► Specifications

| Set name                      |                |            | PUHY-P500             | YSHA(-BS)   | PUHY-P550                                 | YSHA(-BS)             | PUHY-P600  | YSHA(-BS)             | PUHY-P650              | YSHA(-BS)              |
|-------------------------------|----------------|------------|-----------------------|---|---|-----------------------|--|-----------------------|------------------------|------------------------|
| Power source                  | ce             |            |                       |   | 3-  | phase 4-wire 380      | -400-415V 50/60  | Hz                    |                        |                        |
| Cooling cap                   | acity *1       | kW         | 56                    | 6.0   | 63  | 3.0                   | 69   | 0.0                   | 73                     | 3.0                    |
| (Nominal) *1 BTU/             |                | BTU/h      | 191,100               |   | 215                                       | ,000                  | 235,400  |                       | 249                    | ,100                   |
|                               | Power input    | kW         | 16                    | .47   | 18  | .36                   | 18   | .75                   | 20                     | .79                    |
|                               | Current input  | А          | 27.8-26               | 6.4-25.4  | 30.9-29                                   | 9.4-28.3              | 31.6-30  | 0.0-28.9              | 35.0-33                | 3.3-32.1               |
|                               | EER (kW / I    | (W)        | 3.                    | 40  | 3.  | 43                    | 3.   | 68                    | 3.                     | 51                     |
| Cooling cap                   | acity *3       | kW         | 57                    | 7.0   | 64  | l.1                   | 70   | ).2                   | 74                     | 1.2                    |
| Temp.                         | Indoor         | W.B.       |                       |   |   | 15~24°C               | (59~75°F)  |                       |                        |                        |
| range of<br>cooling           | Outdoor        | D.B.       |                       |   |   | - 5~46°C (            | 23~115°F)  |                       |                        |                        |
| Heating cap                   | acity *2       | kW         | 63                    | 3.0   | 69  | 9.0                   | 76   | 6.5                   | 81                     | .5                     |
| (Nominal)                     | , *2           | BTU/h      | 215                   | ,000  | 235                                       | ,400                  | 261  | ,000                  | 278                    | ,100                   |
| , ,                           | Power input    | kW         |                       | .40   | 18  | .06                   | 19   | .92                   | 21                     | .90                    |
|                               | Current input  | А          |                       | 6.3-25.3  | 30.4-28                                   | 3.9-27.9              | 33.6-31  | .9-30.7               | 36.9-35                | 5.1-33.8               |
|                               | COP (kW/k      | W)         | 3.                    |   | 3.  | 82                    | 3.   | 84                    | 3.                     | 72                     |
| Temp.                         | Indoor temp.   | ,<br>D.B.  |                       |   |   | 15~27°C               | (59~81°F)  | -                     |                        |                        |
| range                         |                |            |                       |   |   |                       | · · · ·  |                       |                        |                        |
| of heating                    | Outdoor temp.  | W.B.       |                       |   |   | -20~15.5°C            | · · /  |                       |                        |                        |
| Indoor unit                   | Total capac    |            |                       |   | D45 D0                                    | 50~130% of out        |  |                       | D45 D0                 | 0/4 50                 |
| connectable                   | Model/Quar     | ntity      | P15~P2                | 50 / 1~43   | P15~P2                                    | 50/1~47               | P15~P2   | 50 / 1~50             | P15~P2                 | 50 / 1~50              |
| Sound press<br>(measured in a |                | dB <a></a> | 6                     | 60 61   |   | 62                    |  | 62.5                  |                        |                        |
| Power press<br>(measured in a |                | dB <a></a> | 80                    |   | 81  |                       | 82   |                       | 82                     | 2.5                    |
| Diameter of                   | Liquid         | mm(in.)    | ø15.88 (ø5            | 5/8) Brazed   | ø15.88 (ø5/8) Brazed ø15.88 (ø5/8) Brazed |                       | 5/8) Brazed  | ø15.88 (ø5/8) Brazed  |                        |                        |
| refrigerant pipe              | Gas            | mm(in.)    | ø28.58 (ø1-           | 1/8) Brazed   | ø28.58 (ø1-                               | 1/8) Brazed           | ø28.58 (ø1-  | 1/8) Brazed           |                        | 1/8) Brazed            |
| Outdoor uni                   | t 1 and Outd   | oor unit 2 | PUHY-P250YHA<br>(-BS) | PUHY-P250YHA<br>(-BS)   | PUHY-P250YHA<br>(-BS)                     | PUHY-P300YHA<br>(-BS) | PUHY-P250YHA<br>(-BS)                                    | PUHY-P350YHA<br>(-BS) | PUHY-P300YHA<br>(-BS)  | PUHY-P350YHA<br>(-BS)  |
| External fini                 | sh             |            | (20)                  |   | nized steel sheet                         | s (+ powder coat      | ing for-BS type) <                                       | MUNSELL 3.0Y          | 7.8/11 or similar>     |                        |
|                               |                | mm         | 1.650 x 920x 760      | 1,650 x 920 x 760   | 1.650 x 920 x 760                         | 1.650 x 920 x 760     | 1.650 x 920 x 760  | 1 650 x 1 220 x 760   | 1,650 x 920 x 760      | 1.650 x 1.220 x 760    |
| External dimens               | sion H x W x D | in.        |                       |   |   |                       |  |                       | 65 x 36-1/4 x 29-15/16 |                        |
| Net weight                    |                | kg(lbs)    | 200 (441)             | 200 (441)   | 200 (441)                                 | 215 (474)             | 200 (441)  | 245 (541)             | 215 (474)              | 245 (541)              |
| Heat exchar                   | naer           | 5()        |                       |   |   |                       | s fin & copper tub                                       |                       | - ( )                  | - (- /                 |
|                               | Туре           |            |                       |   |   | nverter scroll her    | metic compresso  | r                     |                        |                        |
| Compressor                    | Starting me    | thod       |                       |   |   |                       | erter  |                       |                        |                        |
|                               | Motor output   | kW         | 6.7                   | 6.7   | 6.7                                       | 8.2                   | 6.7  | 10.3                  | 8.2                    | 10.3                   |
|                               |                | m³/min     | 185                   | 185   | 185                                       | 185                   | 185  | 225                   | 185                    | 225                    |
|                               | Air flow rate  | L/s        | 3,083                 | 3,083   | 3,083                                     | 3,083                 | 3,083  | 3,750                 | 3,083                  | 3,750                  |
| FAN                           |                | cfm        | 6,532                 | 6,532   | 6,532                                     | 6,532                 | 6,532  | 7,945                 | 6,532                  | 7,945                  |
|                               | Type x Qua     | ntitv      |                       |   |   |                       | Propeller fan x 1  |                       |                        |                        |
|                               | Motor output   | kW         | 0.92 x 1              | 0.92 x 1  | 0.92 x 1                                  | 0.92 x 1              | 0.92 x 1   | 0.92 x 1              | 0.92 x 1               | 0.92 x 1               |
|                               | High pressure  |            | 0.02 X 1              | 0.02 X 1  |   |                       | sure switch at 4.1                                       |                       | 0.02 X 1               | 0.02 X 1               |
| Protection                    | Inverter circ  |            |                       |   | 5 1                                       |                       | nt protection  |                       |                        |                        |
| devices                       | Fan motor      |            | Thermal switch        | Thermal switch  | Thermal switch                            | Thermal switch        |  | Thermal switch        | Thermal switch         | Thermal switch         |
|                               |                |            | R410A x 9.0kg         | R410A x 9.0kg   | R410A x 9.0kg                             | R410A x 9.0kg         | R410A x 9.0kg  | R410A x 11.5kg        | R410A x 9.0kg          | R410A x 11.5kg         |
| Refrigerant                   | Type x Origir  | nal charge | (20 lbs)              | (20 lbs)  | (20 lbs)                                  | (20 lbs)              | (20 lbs)   | (26 lbs)              | (20 lbs)               | (26 lbs)               |
| Pino hotwcon                  | Liquid         | mm(in.)    | . ,                   | · · · ·   | . ,                                       | ( )                   | . ,  | ( )                   | ø12.7 (ø1/2) Brazed    | · · ·                  |
| Pipe between                  |                |            |                       | (8) Brazed  | . ,                                       | . ,                   | · · · ·  | . ,                   | · · · /                | <u> </u>               |
| unit distributor              | Gas            | mm(in.)    |                       | (8) Brazed  | 922.2 (91/8) Brazed                       | . ,                   |  |                       | ø22.2 (ø7/8) Brazed    | 920.00 (91-1/8) Brazed |
| Optional par                  | rts            |            | , v                   | it : CMY-Y100VBK2<br>.S-G2, CMY-Y202S-G2<br>04 / 108 / 1010-G |   | joint : CN            | utdoor Twinning K<br>IY-Y102SS / LS-0<br>Header : CMY-Y1 | G2, CMY-Y202S /       | 302S-G2                |                        |
|                               |                |            | neauer: CMY-Y1        | 04/108/1010-G   |   |                       | neader : CMY-Y1  | 04/108/1010-0         | 2                      |                        |

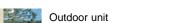
#### Notes:

\*1,\*2 Nominal conditions

|         | Indoor Outdoor                       |                                | Pipe length       | Level difference |
|---------|--------------------------------------|--------------------------------|-------------------|------------------|
| Cooling | 27°C DB/19°C WB<br>(81°F DB/66°F WB) | 35°C DB(95°F DB)               | 7.5m (24-9/16ft.) | 0m (0ft.)        |
| Heating | 20°C DB(68°F DB)                     | 7°C DB/6°C WB(45°F DB/43°F WB) | 7.5m (24-9/16ft.) | 0m (0ft.)        |

\*3 Reference data under condition of Indoor 27°C DB/19.5°C WB(81°F DB/67°F WB) Outdoor 35°C DB(95°F DB) \*Nominal condition \*1,\*2 are subject to JIS B8615-2. \*Due to continuing improvement, above specification may be subject to change without notice.







## OUTDOOR UNIT Y Series PUHY-P YSHA(-BS)

### ► Specifications

| Set name                                    |                |            | PUHY-P700                              | YSHA(-BS)               | PUHY-P750                                   | YSHA(-BS)   | PUHY-P800               | YSHA(-BS)               |  |
|---|----------------|------------|--|-------------------------|---|---|-------------------------|-------------------------|--|
| Power source                                | ce             |            |  | . ,                     | 3-phase 4-wire 380                          | -400-415V 50/60Hz   |                         | . ,                     |  |
| Cooling cap                                 | acity *1       | kW         | 80                                     | .0                      | . 85  | 5.0   | 90                      | ).0                     |  |
| (Nominal)                                   | *1             | BTU/h      | 273                                    | 000                     | 290,000                                     |   | 307,100                 |                         |  |
| . ,   | Power input    | kW         | 22                                     | 47                      | 25  | 25.07   |                         | 27.69                   |  |
|   | Current input  | A          | 37.9-36.0-34.7                         |                         | 42.3-40                                     | ).2-38.7  | 46.7-44                 | 1.4-42.8                |  |
|   | EER (kW/kV     | N)         | 3.                                     | 56                      | 3.  | 39  | 3.25                    |                         |  |
| Cooling cap                                 | acity *3       | kW         | 81                                     | .4                      | 86  | 6.4   | 9'                      | .5                      |  |
| Temp.                                       | Indoor         | W.B.       |  |                         | 15~24°C                                     | (59~75°F)   |                         | -                       |  |
| range of cooling                            | Outdoor        | D.B.       |  | - 5~46°C (23~115°F)     |   |   |                         |                         |  |
| Heating cap                                 | acity *2       | kW         | 88                                     | .0                      | 95  | 5.0   | 10                      | 0.0                     |  |
| (Nominal)                                   | *2             | BTU/h      | 300                                    | 300                     | 324   | ,100  | 341                     | ,200                    |  |
| ,   | Power input    | kW         | 23                                     | 71                      | 25  | .46   | 25                      | .70                     |  |
|   | Current input  | А          | 40.0-38                                | .0-36.6                 | 42.9-40                                     | ).8-39.3  | 43.3-47                 | .2-39.7                 |  |
|   | COP (kW/k)     |            | 3.                                     | 71                      | 3.  | 73  | 3.                      | 89                      |  |
| Temp.                                       | Indoor temp.   | D.B.       |  |                         | 15~27°C                                     | (59~81°F)   |                         |                         |  |
| range<br>of heating                         | Outdoor temp.  | W.B.       |  |                         |   | C (-4~60°F)   |                         |                         |  |
| Indoor unit                                 | Total capaci   | ty         |  |                         | 50~130% of out                              | door unit capacity  |                         |                         |  |
|   | Model/Quar     | -          | P15~P25                                | 50 / 1~50               |   | 50 / 1~50   | P15~P2                  | 50 / 1~50               |  |
| Sound press                                 | ,              |            |  |                         |   |   |                         |                         |  |
| (measured in a                              |                |            | 6                                      | 3                       | 63.5  |   | 64                      |                         |  |
| Power press                                 | ,              |            |  |                         |   |   |                         |                         |  |
| (measured in a                              |                | dB <a></a> | 8                                      | 3                       | 83.5  |   | 84                      |                         |  |
|   | Liquid         | mm(in.)    | ø19.05 (ø3                             | (4) Brazed              | ø19.05 (ø3/4) Brazed                        |   | ø19.05 (ø3              | 8/4) Brazed             |  |
| refrigerant pipe                            | · ·            | mm(in.)    | ø34.93 (ø1-                            | ,                       | ø34.93 (ø1-3/8) Brazed                      |   | ø34.93 (ø1-3/8) Brazed  |                         |  |
|   | t 1 and Outdo  | por unit 2 | PUHY-P350YHA(-BS)                      | PUHY-P350YHA(-BS)       | PUHY-P350YHA(-BS)                           | PUHY-P400YHA(-BS)   | PUHY-P350YHA(-BS)       | PUHY-P450YHA(-BS)       |  |
| External fini                               | sh             |            |  | . ,                     | ,   | ing for-BS type) <mun< td=""><td>. ,</td><td>. , ,</td></mun<>  | . ,                     | . , ,                   |  |
|   |                | mm         | 1,650 x 1,220 x 760                    | 1,650 x 1,220 x 760     | 1,650 x 1,220 x 760                         | 1,650 x 1,220 x 760   | 1,650 x 1,220 x 760     | 1,650 x 1,220 x 760     |  |
| External dimens                             | aion H x W x D | in.        | 65 x 48-1/16 x 29-15/16                | 65 x 48-1/16 x 29-15/16 | 65 x 48-1/16 x 29-15/16                     | 65 x 48-1/16 x 29-15/16   | 65 x 48-1/16 x 29-15/16 | 65 x 48-1/16 x 29-15/16 |  |
| Net weight                                  |                | kg(lbs)    | 245 (541)                              | 245 (541)               | 245 (541)                                   | 245 (541)   | 245 (541)               | 245 (541)               |  |
| Heat exchar                                 | nger           |            | Salt-resistant cross fin & copper tube |                         |   |   |                         |                         |  |
|   | Туре           |            | Inverter scroll hermetic compressor    |                         |   |   |                         |                         |  |
| Compressor                                  | Starting met   | thod       |  |                         | Inv   | erter   |                         |                         |  |
|   | Motor output   | kW         | 10.3                                   | 10.3                    | 10.3  | 10.5  | 10.3                    | 12.0                    |  |
|   |                | m³/min     | 225                                    | 225                     | 225   | 225   | 225                     | 225                     |  |
|   | Air flow rate  | L/s        | 3,750                                  | 3,750                   | 3,750                                       | 3,750   | 3,750                   | 3,750                   |  |
| FAN   |                | cfm        | 7,945                                  | 7,945                   | 7,945                                       | 7,945   | 7,945                   | 7,945                   |  |
|   | Type x Quai    | ntity      | Propeller fan x 1                      | Propeller fan x 1       | Propeller fan x 1                           | Propeller fan x 1   | Propeller fan x 1       | Propeller fan x 1       |  |
|   | Motor output   | kW         | 0.92 x 1                               | 0.92 x 1                | 0.92 x 1                                    | 0.92 x 1  | 0.92 x 1                | 0.92 x 1                |  |
|   | High pressure  | protection |  | High pres               | sure sensor, High pres                      | sure switch at 4.15 MPa   |                         |                         |  |
| Protection                                  | Inverter circ  |            |  |                         | Over-currer                                 | nt protection   |                         |                         |  |
| devices                                     | Fan motor      |            | Thermal switch                         | Thermal switch          | Thermal switch                              | Thermal switch  | Thermal switch          | Thermal switch          |  |
| <b>D</b> ( )                                |                |            | R410A x 11.5kg                         | R410A x 11.5kg          | R410A x 11.5kg                              | R410A x 11.5kg  | R410A x 11.5kg          | R410A x 11.5kg          |  |
| Refrigerant                                 | Type x Origir  | nai charge | (26 lbs)                               | (26 lbs)                | (26 lbs)                                    | (26 lbs)  | (26 lbs)                | (26 lbs)                |  |
| Pipe between                                | Liquid         | mm(in.)    | ø12.7 (ø1)                             | 2) Brazed               | ø12.7 (ø1/2) Brazed                         | ø15.88 (ø5/8) Brazed  | ø12.7 (ø1/2) Brazed     | ø15.88 (ø5/8) Brazed    |  |
| unit distributor                            | · ·            | mm(in.)    | ø28.58 (ø1-                            | ,                       |   | ø28.58 (ø1-1/8) Brazed  |                         |                         |  |
| Unit distributor Gas mm(in.) Optional parts |                |            |  | ,                       | Outdoor Twinning K<br>t : CMY-Y102SS / LS-0 | Lit : CMY-Y200VBK2<br>G2, CMY-Y202S / 302S<br>04 / 108 / 1010-G |                         |                         |  |

#### Notes:

| 1,*2 Nominal condition | Jris                                 |                                |                   |                  |
|------------------------|--------------------------------------|--------------------------------|-------------------|------------------|
|                        | Indoor                               | Outdoor                        | Pipe length       | Level difference |
| Cooling                | 27°C DB/19°C WB<br>(81°F DB/66°F WB) | 35°C DB(95°F DB)               | 7.5m (24-9/16ft.) | 0m (0ft.)        |
| Heating                | 20°C DB(68°F DB)                     | 7°C DB/6°C WB(45°F DB/43°F WB) | 7.5m (24-9/16ft.) | 0m (0ft.)        |

\*3 Reference data under condition of Indoor 27°C DB/19.5°C WB(81°F DB/67°F WB) Outdoor 35°C DB(95°F DB) \*Nominal condition \*1,\*2 are subject to JIS B8615-2. \*Due to continuing improvement, above specification may be subject to change without notice.

| <br>        |  |
|-------------|--|
| <u>, (1</u> |  |



### **OUTDOOR UNIT Y** Series PUHY-P YSHA(-BS)



### ► Specifications

| Set name                      | trame PUHY-P850YSHA(-BS) PUHY-P900YSHA(-BS) |              |  | YSHA(-BS)               |   |  |  |
|-------------------------------|---|--------------|--|-------------------------|---|--|--|
| Power source                  | ce  |              |  | 3-phase 4-wire 380      | 0-400-415V 50/60Hz  |  |  |
| Cooling cap                   | acity *1                                    | kW           | 96.  | 0                       | 10  | 1.0  |  |
| (Nominal)                     | *1  | BTU/h        | 327,6  | 600                     | 344   | ,600   |  |
|                               | Power input                                 | kW           | 30.9   | 90                      | 34.12   |  |  |
|                               | Current input                               | A            | 52.1-49.   | 5-47.7                  | 57.5-54.7-52.7  |  |  |
|                               | EER (kW/k)                                  | N)           | 3.1  | 0                       | 2.  | 96   |  |
| Cooling cap                   | acity *3                                    | kW           | 97.  | 6                       | 10  | 2.7  |  |
| Temp.                         | Indoor                                      | W.B.         |  | 15~24°C                 | (59~75°F)   |  |  |
| range of                      | Outdoor *2                                  | D.B.         |  | - 5~46°C                | (23~115°F)  |  |  |
| cooling<br>Heating cap        |   | kW           | 102  | 102.0                   |   | 4.0  |  |
| (Nominal)                     | acity 2                                     | BTU/h        | 348,0  |                         | 354   |  |  |
| (Norminal)                    | Dower innut                                 | вто/n<br>kW  | 29.8   |                         |   | .7   |  |
|                               | Power input                                 | A            | 50.3-47.   |                         | -   |  |  |
|                               | Current input<br>COP (kW/k)                 |              | 3.4  |                         | 33.5-50   |  |  |
| Temp.                         |   | D.B.         | 3.4  |                         | (59~81°F)   | 20   |  |
| range                         | Indoor temp.<br>Outdoor temp.               | D.в.<br>W.B. |  |                         | (59~81 F)<br>C (-4~60°F)                                      |  |  |
| of heating                    |   |              |  |                         | · · · ·   |  |  |
|                               | Total capac                                 |              |  |                         | door unit capacity  |  |  |
|                               | Model/Quar                                  | ntity        | P15~P250   | 0 / 1~50                | P15~P2  | 50 / 1~50                                      |  |
| Sound press                   |   | dB <a></a>   | 64.  | 5                       | 65  |  |  |
| (measured in a                | ,   | 42.4.6       |  |                         |   |  |  |
| Power press<br>(measured in a |   | dB <a></a>   | 84.  | 5                       | 85  |  |  |
|                               | Liquid                                      | mm(in.)      | ø19.05 (ø3/  | (1) Brazod              | a19.05 (a)  | R/A) Brazod                                    |  |
| refrigerant pipe              |   | mm(in.)      | ø41.28 (ø1-5   | ,                       |   | ø19.05 (ø3/4) Brazed<br>ø41.28 (ø1-5/8) Brazed |  |
|                               | it 1 and Outo                               |              | PUHY-P400YHA(-BS)  | PUHY-P450YHA(-BS)       | PUHY-P450YHA(-BS)   | PUHY-P450YHA(-BS)                              |  |
| External fini                 |   |              |  | · · · · ·               | ting for-BS type) <munsell 3.0y<="" td=""><td></td></munsell> |  |  |
|                               | 311   | mm           | 1,650 x 1,220 x 760  | 1,650 x 1,220 x 760     | 1,650 x 1,220 x 760   | 1,650 x 1,220 x 760                            |  |
| External dimens               | sion H x W x D                              | in.          | 65 x 48-1/16 x 29-15/16  | 65 x 48-1/16 x 29-15/16 | 65 x 48-1/16 x 29-15/16                                       | 65 x 48-1/16 x 29-15/16                        |  |
| Net weight                    |   | kg(lbs)      | 245 (541)  | 245 (541)               | 245 (541)   | 245 (541)                                      |  |
| Heat exchar                   | nger  | Kg(ID3)      | 240 (041)  | ( )                     |   | 240 (041)                                      |  |
|                               | Туре  |              | Salt-resistant cross fin & copper tube Inverter scroll hermetic compressor |                         |   |  |  |
| Compressor                    | Starting me                                 | thod         |  |                         | erter   |  |  |
| 001110100001                  | Motor output                                | kW           | 10.5   | 12.0                    | 12.0  | 12.0   |  |
|                               |   | m³/min       | 225  | 225                     | 225   | 225  |  |
|                               | Air flow rate                               | L/s          | 3.750  | 3.750                   | 3.750   | 3.750  |  |
| FAN                           | rui now idle                                | cfm          | 7.945  | 7.945                   | 7.945   | 7.945  |  |
|                               | Type x Qua                                  | -            | Propeller fan x 1  | Propeller fan x 1       | Propeller fan x 1   | Propeller fan x 1                              |  |
|                               | Motor output                                | kW           | 0.92 x 1   | 0.92 x 1                | 0.92 x 1  | 0.92 x 1                                       |  |
|                               | High pressure                               |              |  |                         | sure switch at 4.15 MPa (601 psi)                             | 0.02 A 1                                       |  |
| Protection                    | Inverter circ                               |              |  | • • • • •               | nt protection   |  |  |
| devices                       | Fan motor                                   |              | Thermal switch   | Thermal switch          | Thermal switch  | Thermal switch                                 |  |
| Refrigerant                   | Type x Origin                               | nal charge   | R410A x 11.5kg (26 lbs)  | R410A x 11.5kg (26 lbs) | R410A x 11.5kg (26 lbs)                                       | R410A x 11.5kg (26 lbs)                        |  |
| Pipe between                  | Liquid                                      | mm(in.)      |  | <b>.</b> ,              | 5/8) Brazed   |  |  |
| unit distributor              | Gas   | mm(in.)      |  | 1                       | -1/8) Brazed  |  |  |
|                               | GdS   |              |  | ,                       | ,   |  |  |
| Optional par                  | rte   |              |  | •                       | kit : CMY-Y200VBK2  |  |  |
| Optional pai                  | 110   |              |  | ,                       | G2, CMY-Y202S / 302S-G2                                       |  |  |
|                               |   |              |  | Header : CMY-Y1         | 104 / 108 / 1010-G  |  |  |

#### Notes:

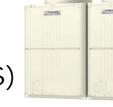
\*1,\*2 Nominal conditions

|         | Indoor                               | Outdoor                        | Pipe length       | th Level difference |  |
|---------|--------------------------------------|--------------------------------|-------------------|---------------------|--|
| Cooling | 27°C DB/19°C WB<br>(81°F DB/66°F WB) | 35°C DB(95°F DB)               | 7.5m (24-9/16ft.) | 0m (0ft.)           |  |
| Heating | 20°C DB(68°F DB)                     | 7°C DB/6°C WB(45°F DB/43°F WB) | 7.5m (24-9/16ft.) | 0m (0ft.)           |  |

\*3 Reference data under condition of Indoor 27°C DB/19.5°C WB(81°F DB/67°F WB) Outdoor 35°C DB(95°F DB) \*Nominal condition \*1,\*2 are subject to JIS B8615-2. \*Due to continuing improvement, above specification may be subject to change without notice.



## OUTDOOR UNIT Y Series PUHY-P YSHA ► Specifications (-BS)



150

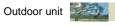
| Set name  |  |   | PUH   | IY-P950YSHA(  | -BS)  | PUH  | Y-P1000YSHA  | (-BS)   | PUH  | Y-P1050YSHA   | (-BS)   |  |
|---|--|---|---|---|---|--|--|---|--|---|---|--|
| Power sour  | ce   |   |   |   |   | 3-phase 4-v  | vire 380-400-41  | 5V 50/60Hz  |  |   |   |  |
| Cooling cap   | acity *1   | kW  |   | 108.0   |   |  | 113.0  |   |  | 118.0   |   |  |
| (Nominal)   | *1   | BTU/h   |   | 368,500   |   |  | 385,600  |   |  | 402,600   |   |  |
|   | Power input  | kW  |   | 30.68   |   |  | 32.47  |   | 33.90  |   |   |  |
|   | Current input  | А   |   | 51.7-49.2-47.4  |   |  | 54.8-52.0-50.1   |   |  | 57.2-54.3-52.4  |   |  |
|   | EER (kW/kW   | V)  |   | 3.52  |   |  | 3.48   |   | 3.48   |   |   |  |
| Cooling cap   | · · · ·  | kW  |   | 109.8   |   |  | 114.9  |   |  | 120.0   |   |  |
| Temp. Indoor W.B.   |  |   |   |   |   | 15   | 5~24°C (59~75°   | F)  |  |   |   |  |
| range of cooling Outdoor D.B.   |  |   |   |   |   | - 5  | ~46°C (23~115  | °F)   |  |   |   |  |
| Heating cap   | acity *2   | kW  |   | 119.5   |   |  | 127.0  |   |  | 132.0   |   |  |
| (Nominal)   | *2   | BTU/h   |   | 407,700   |   |  | 433,300  |   |  | 450,400   |   |  |
|   | Power input  | kW  |   | 30.02   |   |  | 33.15  |   |  | 35.01   |   |  |
|   | Current input  | А   |   | 50.6-48.1-46.4  |   |  | 55.9-53.1-51.2   |   |  | 59.1-56.1-54.1  |   |  |
|   | COP (kW/k)   | N)  |   | 3.98  |   |  | 3.83   |   |  | 3.77  |   |  |
| Temp.   | Indoor temp.   | D.B.  |   |   |   | 15   | 5~27°C (59~81°   | °F)   | 1  |   |   |  |
| range<br>of heating   | Outdoor temp.  | W.B.  |   |   |   | -20  | ~15.5°C (-4~60   | )°F)  |  |   |   |  |
| Indoor unit   | Total capaci   | ty  |   |   |   | 50~130%  | 6 of outdoor uni   | t capacity  |  |   |   |  |
| connectable   | Model/Quar   |   | F   | P15~P250 / 1~5  | 0   | F  | P15~P250 / 2~5   | 0   | F  | P15~P250 / 2~5  | 0   |  |
| Sound press<br>(measured in a   | sure level   | dB <a></a>  |   | 64  |   |  | 64.5   |   |  | 65  |   |  |
| Power pressure level<br>(measured in anechoic room) dB <a></a>  |  | dB <a></a>  |   | 84  |   | 84.5 85  |  |   |  |   |   |  |
| Diameter of   | Liquid   | mm(in.)   | ø1  | 9.05 (ø3/4) Braz  | zed   | ø19  | 9.05 (ø3/4) Bra  | zed   | ø1   | 9.05 (ø3/4) Bra   | zed   |  |
| refrigerant pipe  | Gas  | mm(in.)   | ø41.28 (ø1-5/8) Brazed ø41.28 (ø1-5/8) Brazed   |   | azed  | ø41  | ø41.28 (ø1-5/8) Brazed   |   |  |   |   |  |
| and Outdoo  |  | or unit 2 ,   | PUHY<br>-P250YHA<br>(-BS)   | PUHY<br>-P300YHA<br>(-BS)   | PUHY<br>-P400YHA<br>(-BS)   | PUHY<br>-P300YHA<br>(-BS)  | PUHY<br>-P300YHA<br>(-BS)  | PUHY<br>-P400YHA<br>(-BS)   | PUHY<br>-P300YHA<br>(-BS)  | PUHY<br>-P350YHA<br>(-BS)   | PUHY<br>-P400YHA<br>(-BS)   |  |
| External fini   | ish  |   |   | Pre-coated g  | alvanized steel   | sheets (+ powo   |  | ,   |  | 1   |   |  |
|   | ension mm  |   | 1 650 y 020 y 760   | 1,650 x 920 x 760   | 1,650 x 1,220 x 760   | 1,650 x 920 x 760  | 1,650 x 920 x 760  | 1,650 x 1,220 x 760   | 1,650 x 920 x 760  | 1,650 x 1,220 x 760   | 1.650 x 1.220 x 76  |  |
| External din  | nension  | mm  | 7   |   |   |  |  |   |  |   | 1   |  |
| External din<br>H x W x D   | nension  |   | 65 x 36-1/4   | 65 x 36-1/4   | 65 x 48-1/16  | 65 x 36-1/4  | 65 x 36-1/4  | 65 x 48-1/16  | 65 x 36-1/4  | 65 x 48-1/16  | 65 x 48-1/16  |  |
|   | nension  | mm<br>in.   | 65 x 36-1/4<br>x 29-15/16   | x 29-15/16  | x 29-15/16  | x 29-15/16   | x 29-15/16   | x 29-15/16  | x 29-15/16   | x 29-15/16  | 65 x 48-1/16<br>x 29-15/16  |  |
| H x W x D   | nension  | in.   | 65 x 36-1/4   |   |   |  |  |   |  |   | 65 x 48-1/16  |  |
| H x W x D<br>Net weight   |  |   | 65 x 36-1/4<br>x 29-15/16   | x 29-15/16  | x 29-15/16  | x 29-15/16<br>215<br>(474)   | x 29-15/16<br>215<br>(474)   | x 29-15/16<br>245<br>(541)  | x 29-15/16   | x 29-15/16  | 65 x 48-1/16<br>x 29-15/16  |  |
| H x W x D   | nger   | in.   | 65 x 36-1/4<br>x 29-15/16<br>200  | x 29-15/16<br>215   | x 29-15/16<br>245   | x 29-15/16<br>215<br>(474)<br>Salt-resista   | x 29-15/16<br>215<br>(474)<br>ant cross fin & c  | x 29-15/16<br>245<br>(541)<br>copper tube   | x 29-15/16<br>215  | x 29-15/16<br>245   | 65 x 48-1/16<br>x 29-15/16<br>245   |  |
| H x W x D<br>Net weight<br>Heat exchar  | nger<br>Type   | in.<br>kg(lbs)  | 65 x 36-1/4<br>x 29-15/16<br>200  | x 29-15/16<br>215   | x 29-15/16<br>245   | x 29-15/16<br>215<br>(474)<br>Salt-resista   | x 29-15/16<br>215<br>(474)<br>ant cross fin & c<br>croll hermetic co   | x 29-15/16<br>245<br>(541)<br>copper tube   | x 29-15/16<br>215  | x 29-15/16<br>245   | 65 x 48-1/16<br>x 29-15/16<br>245   |  |
| H x W x D<br>Net weight   | nger<br>Type<br>Starting met   | in.<br>kg(lbs)  | 65 x 36-1/4<br>x 29-15/16<br>200<br>(441)   | x 29-15/16<br>215<br>(474)  | x 29-15/16<br>245<br>(541)  | x 29-15/16<br>215<br>(474)<br>Salt-resista<br>Inverter so  | x 29-15/16<br>215<br>(474)<br>ant cross fin & c<br>croll hermetic co<br>Inverter   | x 29-15/16<br>245<br>(541)<br>copper tube<br>compressor   | x 29-15/16<br>215<br>(474)   | x 29-15/16<br>245<br>(541)  | 65 x 48-1/16<br>x 29-15/16<br>245<br>(541)  |  |
| H x W x D<br>Net weight<br>Heat exchar  | nger<br>Type   | in.<br>kg(lbs)<br>thod<br>kW  | 65 x 36-1/4<br>x 29-15/16<br>200<br>(441)<br>6.7  | x 29-15/16<br>215<br>(474)<br>8.2   | x 29-15/16<br>245<br>(541)<br>10.5  | x 29-15/16<br>215<br>(474)<br>Salt-resista<br>Inverter so<br>8.2   | x 29-15/16<br>215<br>(474)<br>ant cross fin & c<br>croll hermetic co<br>Inverter<br>8.2  | x 29-15/16<br>245<br>(541)<br>copper tube<br>compressor   | x 29-15/16<br>215<br>(474)<br>8.2  | x 29-15/16<br>245<br>(541)<br>10.3  | 65 x 48-1/16<br>x 29-15/16<br>245<br>(541)<br>10.5  |  |
| H x W x D<br>Net weight<br>Heat exchar  | nger<br>Type<br>Starting met<br>Motor output   | in.<br>kg(lbs)<br>thod<br>kW<br>m³/min  | 65 x 36-1/4<br>x 29-15/16<br>200<br>(441)<br>6.7<br>185   | x 29-15/16<br>215<br>(474)<br>8.2<br>185  | x 29-15/16<br>245<br>(541)<br>10.5<br>225   | x 29-15/16<br>215<br>(474)<br>Salt-resista<br>Inverter so<br>8.2<br>185  | x 29-15/16<br>215<br>(474)<br>ant cross fin & c<br>croll hermetic cc<br>Inverter<br>8.2<br>185   | x 29-15/16<br>245<br>(541)<br>popper tube<br>pompressor<br>10.5<br>225  | x 29-15/16<br>215<br>(474)<br>8.2<br>185   | x 29-15/16<br>245<br>(541)<br>10.3<br>225   | 65 x 48-1/16<br>x 29-15/16<br>245<br>(541)<br>10.5<br>225   |  |
| H x W x D<br>Net weight<br>Heat exchan<br>Compressor  | nger<br>Type<br>Starting met   | in.<br>kg(lbs)<br>thod<br>kW<br>m³/min<br>L/s   | 65 x 36-1/4<br>x 29-15/16<br>200<br>(441)<br>6.7<br>185<br>3,083  | x 29-15/16<br>215<br>(474)<br>8.2<br>185<br>3,083   | x 29-15/16<br>245<br>(541)<br>10.5<br>225<br>3,750  | x 29-15/16<br>215<br>(474)<br>Salt-resista<br>Inverter so<br>8.2<br>185<br>3,083   | x 29-15/16<br>215<br>(474)<br>ant cross fin & c<br>croll hermetic cc<br>Inverter<br>8.2<br>185<br>3,083  | x 29-15/16<br>245<br>(541)<br>copper tube<br>compressor<br>10.5<br>225<br>3,750   | x 29-15/16<br>215<br>(474)<br>8.2<br>185<br>3,083  | x 29-15/16<br>245<br>(541)<br>10.3<br>225<br>3,750  | 65 x 48-1/16<br>x 29-15/16<br>245<br>(541)<br>10.5<br>225<br>3,750  |  |
| H x W x D<br>Net weight<br>Heat exchar  | nger<br>Type<br>Starting met<br>Motor output<br>Air flow rate  | in.<br>kg(lbs)<br>thod<br>kW<br>m³/min<br>L/s<br>cfm  | 65 x 36-1/4<br>x 29-15/16<br>200<br>(441)<br>6.7<br>185<br>3,083<br>6,532   | x 29-15/16<br>215<br>(474)<br>8.2<br>185<br>3,083<br>6,532  | x 29-15/16<br>245<br>(541)<br>10.5<br>225<br>3,750<br>7,945   | x 29-15/16<br>215<br>(474)<br>Salt-resista<br>Inverter so<br>8.2<br>185<br>3,083<br>6,532  | x 29-15/16<br>215<br>(474)<br>ant cross fin & c<br>croll hermetic c<br>Inverter<br>8.2<br>185<br>3,083<br>6,532  | x 29-15/16<br>245<br>(541)<br>copper tube<br>compressor<br>10.5<br>225<br>3,750<br>7,945  | x 29-15/16<br>215<br>(474)<br>8.2<br>185<br>3,083<br>6,532   | x 29-15/16<br>245<br>(541)<br>10.3<br>225<br>3,750<br>7,945   | 65 x 48-1/16<br>x 29-15/16<br>245<br>(541)<br>10.5<br>225<br>3,750<br>7,945   |  |
| H x W x D<br>Net weight<br>Heat exchan<br>Compressor  | nger<br>Type<br>Starting met<br>Motor output<br>Air flow rate<br>Type x Qua  | in.<br>kg(lbs)<br>thod<br>kW<br>m³/min<br>L/s<br>cfm<br>ntity   | 65 x 36-1/4<br>x 29-15/16<br>200<br>(441)<br>6.7<br>185<br>3,083<br>6,532   | x 29-15/16<br>215<br>(474)<br>8.2<br>185<br>3,083<br>6,532<br>Propeller fan x   | x 29-15/16<br>245<br>(541)<br>10.5<br>225<br>3,750<br>7,945   | x 29-15/16<br>215<br>(474)<br>Salt-resista<br>Inverter so<br>8.2<br>185<br>3,083<br>6,532  | x 29-15/16<br>215<br>(474)<br>ant cross fin & c<br>croll hermetic c<br>Inverter<br>8.2<br>185<br>3,083<br>6,532<br>Propeller fan x   | x 29-15/16<br>245<br>(541)<br>popper tube<br>poppressor<br>10.5<br>225<br>3,750<br>7,945  | x 29-15/16<br>215<br>(474)<br>8.2<br>185<br>3,083<br>6,532   | x 29-15/16<br>245<br>(541)<br>10.3<br>225<br>3,750<br>7,945<br>Propeller fan x  | 65 x 48-1/16<br>x 29-15/16<br>245<br>(541)<br>10.5<br>225<br>3,750<br>7,945   |  |
| H x W x D<br>Net weight<br>Heat exchan<br>Compressor  | nger<br>Type<br>Starting met<br>Motor output<br>Air flow rate<br>Type x Quai<br>Motor output   | in.<br>kg(lbs)<br>thod<br>kW<br>m³/min<br>L/s<br>cfm<br>ntity<br>kW   | 65 x 36-1/4<br>x 29-15/16<br>200<br>(441)<br>6.7<br>185<br>3,083<br>6,532   | x 29-15/16<br>215<br>(474)<br>8.2<br>185<br>3,083<br>6,532  | x 29-15/16<br>245<br>(541)<br>10.5<br>225<br>3,750<br>7,945<br>1<br>0.92 x 1  | x 29-15/16<br>215<br>(474)<br>Salt-resista<br>Inverter sc<br>8.2<br>185<br>3,083<br>6,532<br>0.92 x 1  | x 29-15/16<br>215<br>(474)<br>ant cross fin & c<br>croll hermetic co<br>Inverter<br>8.2<br>185<br>3,083<br>6,532<br>Propeller fan x<br>0.92 x 1  | x 29-15/16<br>245<br>(541)<br>compressor<br>10.5<br>225<br>3,750<br>7,945<br>1<br>0.92 x 1  | x 29-15/16<br>215<br>(474)<br>8.2<br>185<br>3,083<br>6,532<br>0.92 x 1   | x 29-15/16<br>245<br>(541)<br>10.3<br>225<br>3,750<br>7,945   | 65 x 48-1/16<br>x 29-15/16<br>245<br>(541)<br>10.5<br>225<br>3,750<br>7,945   |  |
| H x W x D<br>Net weight<br>Heat exchan<br>Compressor  | nger<br>Type<br>Starting met<br>Motor output<br>Air flow rate<br>Type x Quan<br>Motor output<br>High pressure  | in.<br>kg(lbs)<br>thod<br>kW<br>m³/min<br>L/s<br>cfm<br>ntity<br>kW   | 65 x 36-1/4<br>x 29-15/16<br>200<br>(441)<br>6.7<br>185<br>3,083<br>6,532   | x 29-15/16<br>215<br>(474)<br>8.2<br>185<br>3,083<br>6,532<br>Propeller fan x   | x 29-15/16<br>245<br>(541)<br>10.5<br>225<br>3,750<br>7,945<br>1<br>0.92 x 1  | x 29-15/16<br>215<br>(474)<br>Salt-resista<br>Inverter so<br>8.2<br>185<br>3,083<br>6,532<br>I<br>0.92 x 1<br>sure sensor, Hig   | x 29-15/16<br>215<br>(474)<br>ant cross fin & c<br>croll hermetic co<br>Inverter<br>8.2<br>185<br>3,083<br>6,532<br>Propeller fan x<br>0.92 x 1<br>gh pressure sw  | x 29-15/16<br>245<br>(541)<br>opper tube<br>ompressor<br>10.5<br>225<br>3,750<br>7,945<br>1<br>0.92 x 1<br>tch at 4.15 MPa  | x 29-15/16<br>215<br>(474)<br>8.2<br>185<br>3,083<br>6,532<br>0.92 x 1   | x 29-15/16<br>245<br>(541)<br>10.3<br>225<br>3,750<br>7,945<br>Propeller fan x  | 65 x 48-1/16<br>x 29-15/16<br>245<br>(541)<br>10.5<br>225<br>3,750<br>7,945   |  |
| H x W x D<br>Net weight<br>Heat exchan<br>Compressor<br>FAN   | nger<br>Type<br>Starting met<br>Motor output<br>Air flow rate<br>Type x Quau<br>Motor output<br>High pressure<br>Inverter circ   | in.<br>kg(lbs)<br>thod<br>kW<br>m³/min<br>L/s<br>cfm<br>ntity<br>kW   | 65 x 36-1/4<br>x 29-15/16<br>200<br>(441)<br>6.7<br>185<br>3,083<br>6,532<br>0.92 x 1   | x 29-15/16<br>215<br>(474)<br>8.2<br>185<br>3,083<br>6,532<br>Propeller fan x<br>0.92 x 1   | x 29-15/16<br>245<br>(541)<br>10.5<br>225<br>3,750<br>7,945<br>1<br>0.92 x 1<br>High pres   | x 29-15/16<br>215<br>(474)<br>Salt-resiste<br>Inverter so<br>8.2<br>185<br>3,083<br>6,532<br>0.92 x 1<br>sure sensor, Hig<br>Ove   | x 29-15/16<br>215<br>(474)<br>ant cross fin & c<br>croll hermetic co<br>Inverter<br>8.2<br>185<br>3,083<br>6,532<br>Propeller fan x<br>0.92 x 1<br>gh pressure sw<br>er-current protect  | x 29-15/16<br>245<br>(541)<br>copper tube<br>ompressor<br>10.5<br>225<br>3,750<br>7,945<br>1<br>0.92 x 1<br>tch at 4.15 MPa   | x 29-15/16<br>215<br>(474)<br>8.2<br>185<br>3,083<br>6,532<br>0.92 x 1<br>0.92 x 1<br>a (601 psi)  | x 29-15/16<br>245<br>(541)<br>10.3<br>225<br>3,750<br>7,945<br>Propeller fan x<br>0.92 x 1  | 65 x 48-1/16<br>x 29-15/16<br>245<br>(541)<br>10.5<br>225<br>3,750<br>7,945<br>1<br>0.92 x 1  |  |
| H x W x D<br>Net weight<br>Heat exchar<br>Compressor<br>FAN<br>Protection   | nger<br>Type<br>Starting met<br>Motor output<br>Air flow rate<br>Type x Quan<br>Motor output<br>High pressure  | in.<br>kg(lbs)<br>thod<br>kW<br>m³/min<br>L/s<br>cfm<br>ntity<br>kW   | 65 x 36-1/4<br>x 29-15/16<br>200<br>(441)<br>6.7<br>185<br>3,083<br>6,532<br>0.92 x 1<br>Thermal switch   | x 29-15/16<br>215<br>(474)<br>8.2<br>185<br>3,083<br>6,532<br>Propeller fan x<br>0.92 x 1<br>Thermal switch   | x 29-15/16<br>245<br>(541)<br>10.5<br>225<br>3,750<br>7,945<br>1<br>0.92 x 1<br>High press<br>Thermal switch  | x 29-15/16<br>215<br>(474)<br>Salt-resistz<br>Inverter so<br>8.2<br>185<br>3,083<br>6,532<br>0.92 x 1<br>sure sensor, Hig<br>Ove<br>Thermal switch   | x 29-15/16<br>215<br>(474)<br>ant cross fin & c<br>croll hermetic cc<br>Inverter<br>8.2<br>185<br>3,083<br>6,532<br>Propeller fan x<br>0.92 x 1<br>gh pressure sw<br>er-current protec<br>Thermal switch   | x 29-15/16<br>245<br>(541)<br>opper tube<br>ompressor<br>10.5<br>225<br>3,750<br>7,945<br>1<br>0.92 x 1<br>tch at 4.15 MPa<br>ction<br>Thermal switch   | x 29-15/16<br>215<br>(474)<br>8.2<br>185<br>3,083<br>6,532<br>0.92 x 1<br>a (601 psi)<br>Thermal switch  | x 29-15/16<br>245<br>(541)<br>10.3<br>225<br>3,750<br>7,945<br>Propeller fan x<br>0.92 x 1<br>Thermal switch  | 65 x 48-1/16<br>x 29-15/16<br>245<br>(541)<br>10.5<br>225<br>3,750<br>7,945<br>0.92 x 1<br>Thermal switc  |  |
| H x W x D<br>Net weight<br>Heat exchan<br>Compressor<br>FAN<br>Protection<br>devices  | nger<br>Type<br>Starting met<br>Motor output<br>Air flow rate<br>Type x Quau<br>Motor output<br>High pressure<br>Inverter circo<br>Fan motor                                   | in.<br>kg(lbs)<br>thod<br>kW<br>m³/min<br>L/s<br>cfm<br>ntity<br>kW<br>sprotection<br>uit                         | 65 x 36-1/4<br>x 29-15/16<br>200<br>(441)<br>6.7<br>185<br>3,083<br>6,532<br>1<br>0.92 x 1<br>Thermal switch<br>R410A   | x 29-15/16<br>215<br>(474)<br>8.2<br>185<br>3,083<br>6,532<br>Propeller fan x ·<br>0.92 x 1<br>Thermal switch<br>R410A  | x 29-15/16<br>245<br>(541)<br>10.5<br>225<br>3,750<br>7,945<br>1<br>0.92 x 1<br>High press<br>Thermal switch<br>R410A   | x 29-15/16<br>215<br>(474)<br>Salt-resistz<br>Inverter sc<br>8.2<br>185<br>3,083<br>6,532<br>1<br>0.92 x 1<br>sure sensor, Hig<br>Ove<br>Thermal switch<br>R410A   | x 29-15/16<br>215<br>(474)<br>ant cross fin & c<br>croll hermetic cr<br>Inverter<br>8.2<br>185<br>3,083<br>6,532<br>Propeller fan x ×<br>0.92 x 1<br>0.92 x 1<br>0 | x 29-15/16<br>245<br>(541)<br>opper tube<br>ompressor<br>10.5<br>225<br>3,750<br>7,945<br>1<br>0.92 x 1<br>tch at 4.15 MPa<br>ction<br>Thermal switch<br>R410A  | x 29-15/16<br>215<br>(474)<br>8.2<br>185<br>3,083<br>6,532<br>0.92 x 1<br>a (601 psi)<br>Thermal switch<br>R410A   | x 29-15/16<br>245<br>(541)<br>10.3<br>225<br>3,750<br>7,945<br>Propeller fan x<br>0.92 x 1<br>Thermal switch<br>R410A   | 65 x 48-1/16<br>x 29-15/16<br>245<br>(541)<br>10.5<br>225<br>3,750<br>7,945<br>1<br>0.92 x 1<br>Thermal switc<br>R410A  |  |
| H x W x D<br>Net weight<br>Heat exchar<br>Compressor<br>FAN<br>Protection   | nger<br>Type<br>Starting met<br>Motor output<br>Air flow rate<br>Type x Quau<br>Motor output<br>High pressure<br>Inverter circ<br>Fan motor                                    | in.<br>kg(lbs)<br>thod<br>kW<br>m³/min<br>L/s<br>cfm<br>ntity<br>kW<br>sprotection<br>uit                         | 65 x 36-1/4<br>x 29-15/16<br>200<br>(441)<br>6.7<br>185<br>3,083<br>6,532<br>1<br>0.92 x 1<br>Thermal switch<br>R410A<br>x 9.0kg  | x 29-15/16<br>215<br>(474)<br>8.2<br>185<br>3,083<br>6,532<br>Propeller fan x *<br>0.92 x 1<br>Thermal switch<br>R410A<br>x 9.0kg                                 | x 29-15/16<br>245<br>(541)<br>10.5<br>225<br>3,750<br>7,945<br>1<br>0.92 x 1<br>High press<br>Thermal switch<br>R410A<br>x 11.5kg   | x 29-15/16<br>215<br>(474)<br>Salt-resistz<br>Inverter sc<br>8.2<br>185<br>3,083<br>6,532<br>0.92 x 1<br>Sure sensor, Hig<br>Ove<br>Thermal switch<br>R410A<br>x 9.0kg   | x 29-15/16<br>215<br>(474)<br>ant cross fin & c<br>croll hermetic cr<br>Inverter<br>8.2<br>185<br>3,083<br>6,532<br>Propeller fan x<br>0.92 x 1<br>gh pressure sw<br>r-current protect<br>Thermal switch<br>R410A<br>x 9.0kg   | x 29-15/16<br>245<br>(541)<br>opper tube<br>mpressor<br>10.5<br>225<br>3,750<br>7,945<br>1<br>0.92 x 1<br>tch at 4.15 MPa<br>tch at 4.15 MPa<br>ttion<br>Thermal switch<br>R410A<br>x 11.5kg  | x 29-15/16<br>215<br>(474)<br>8.2<br>185<br>3,083<br>6,532<br>0.92 x 1<br>a (601 psi)<br>Thermal switch<br>R410A<br>x 9.0kg  | x 29-15/16<br>245<br>(541)<br>10.3<br>225<br>3,750<br>7,945<br>Propeller fan x<br>0.92 x 1<br>Thermal switch<br>R410A<br>x 11.5kg                                   | 65 x 48-1/16<br>x 29-15/16<br>245<br>(541)<br>10.5<br>225<br>3,750<br>7,945<br>1<br>0.92 x 1<br>Thermal switc<br>R410A<br>x 11.5kg                                    |  |
| H x W x D<br>Net weight<br>Heat exchai<br>Compressor<br>FAN<br>Protection<br>devices<br>Refrigerant                                     | nger<br>Type<br>Starting met<br>Motor output<br>Air flow rate<br>Type x Quan<br>Motor output<br>High pressure<br>Inverter circ<br>Fan motor<br>Type x Origin                   | in.<br>kg(lbs)<br>thod<br>kW<br>m/min<br>L/s<br>cfm<br>ntity<br>kW<br>protection<br>uit<br>hal charge             | 65 x 36-1/4<br>x 29-15/16<br>200<br>(441)<br>6.7<br>185<br>3,083<br>6,532<br>0.92 x 1<br>7<br>10.92 x 1<br>7<br>10.92 x 1<br>7<br>10.92 x 1<br>8<br>410A<br>x 9.0kg<br>(20 lbs) | x 29-15/16<br>215<br>(474)<br>8.2<br>185<br>3,083<br>6,532<br>Propeller fan x ·<br>0.92 x 1<br>Thermal switch<br>R410A<br>x 9.0kg<br>(20 lbs)                     | x 29-15/16<br>245<br>(541)<br>10.5<br>225<br>3,750<br>7,945<br>1<br>0.92 x 1<br>High pres:<br>Thermal switch<br>R410A<br>x 11.5kg<br>(26 lbs)   | x 29-15/16<br>215<br>(474)<br>Salt-resista<br>Inverter so<br>8.2<br>185<br>3,083<br>6,532<br>0.92 x 1<br>sure sensor, Hig<br>Ove<br>Thermal switch<br>R410A<br>x 9.0kg<br>(20 lbs)                                 | x 29-15/16<br>215<br>(474)<br>ant cross fin & c<br>croll hermetic co<br>Inverter<br>8.2<br>185<br>3,083<br>6,532<br>Propeller fan x<br>0.92 x 1<br>gh pressure sw<br>r-current protec<br>Thermal switch<br>R410A<br>x 9.0kg<br>(20 lbs)  | x 29-15/16<br>245<br>(541)<br>opper tube<br>ompressor<br>10.5<br>225<br>3,750<br>7,945<br>1<br>0.92 x 1<br>tch at 4.15 MPa<br>tion<br>Thermal switch<br>R410A<br>x 11.5kg<br>(26 lbs)   | x 29-15/16<br>215<br>(474)<br>8.2<br>185<br>3,083<br>6,532<br>0.92 x 1<br>a (601 psi)<br>Thermal switch<br>R410A<br>x 9.0kg<br>(20 lbs)  | x 29-15/16<br>245<br>(541)<br>10.3<br>225<br>3,750<br>7,945<br>Propeller fan x<br>0.92 x 1<br>Thermal switch<br>R410A<br>x 11.5kg<br>(26 lbs)                       | 65 × 48-1/16<br>× 29-15/16<br>245<br>(541)<br>10.5<br>225<br>3,750<br>7,945<br>1<br>0.92 × 1<br>Thermal switc<br>R410A<br>× 11.5kg<br>(26 lbs)                        |  |
| H x W x D<br>Net weight<br>Heat exchan<br>Compressor<br>FAN<br>Protection<br>devices<br>Refrigerant<br>Pipe between                     | nger<br>Type<br>Starting met<br>Motor output<br>Air flow rate<br>Type x Quan<br>Motor output<br>High pressure<br>Inverter circ<br>Fan motor<br>Type x Origin<br>Liquid         | in.<br>kg(lbs)<br>khod<br>kW<br>m³/min<br>L/s<br>cfm<br>ntity<br>kW<br>protection<br>uit<br>nal charge<br>mm(in.) | 65 x 36-1/4<br>x 29-15/16<br>200<br>(441)<br>6.7<br>185<br>3,083<br>6,532<br>0.92 x 1<br>7<br>Thermal switch<br>R410A<br>x 9.0kg<br>(20 lbs)<br>ø9.52 (ø38) Brazed              | x 29-15/16<br>215<br>(474)<br>8.2<br>185<br>3,083<br>6,532<br>Propeller fan x<br>0.92 x 1<br>Thermal switch<br>R410A<br>x 9.0kg<br>(20 lbs)<br>ø127 (ø1/2) Brazed | x 29-15/16<br>245<br>(541)<br>10.5<br>225<br>3,750<br>7,945<br>1<br>0.92 x 1<br>High pres:<br>Thermal switch<br>R410A<br>x 11.5kg<br>(26 lbs)<br>of 5.88 (o5/8) Brazed                          | x 29-15/16<br>215<br>(474)<br>Salt-resistz<br>Inverter so<br>8.2<br>185<br>3,083<br>6,532<br>1<br>0.92 x 1<br>sure sensor, Hig<br>Ove<br>Thermal switch<br>R410A<br>x 9.0kg<br>(20 lbs)<br>ø12.7 (ø1               | x 29-15/16<br>215<br>(474)<br>ant cross fin & c<br>croll hermetic co<br>Inverter<br>8.2<br>185<br>3,083<br>6,532<br>Propeller fan x<br>0.92 x 1<br>gh pressure sw<br>er-current protec<br>Thermal switch<br>R410A<br>x 9.0kg<br>(20 lbs)<br>/2) Brazed   | x 29-15/16<br>245<br>(541)<br>compressor<br>10.5<br>225<br>3,750<br>7,945<br>1<br>0.92 x 1<br>tch at 4.15 MPa<br>ttion<br>Thermal switch<br>R410A<br>x 11.5kg<br>(26 lbs)<br>ø15.88 (ø5/8) Brazed   | x 29-15/16<br>215<br>(474)<br>8.2<br>185<br>3,083<br>6,532<br>0.92 x 1<br>a (601 psi)<br>Thermal switch<br>R410A<br>x 9.0kg<br>(20 lbs)<br>ø12.7 (ø1/2) Brazed                     | x 29-15/16<br>245<br>(541)<br>10.3<br>225<br>3,750<br>7,945<br>Propeller fan x<br>0.92 x 1<br>Thermal switch<br>R410A<br>x 11.5kg<br>(26 lbs)<br>ø12.7 (ø12) Brazed | 65 x 48-1/16<br>x 29-15/16<br>245<br>(541)<br>10.5<br>225<br>3,750<br>7,945<br>1<br>0.92 x 1<br>Thermal switc<br>R410A<br>x 11.5kg<br>(26 lbs)<br>ø15.88 (ø5/8) Braze |  |
| H x W x D<br>Net weight<br>Heat exchai<br>Compressor<br>FAN<br>Protection<br>devices<br>Refrigerant                                     | nger<br>Type<br>Starting met<br>Motor output<br>Air flow rate<br>Type x Quan<br>Motor output<br>High pressure<br>Inverter circ<br>Fan motor<br>Type x Origin<br>Liquid         | in.<br>kg(lbs)<br>thod<br>kW<br>m/min<br>L/s<br>cfm<br>ntity<br>kW<br>protection<br>uit<br>hal charge             | 65 x 36-1/4<br>x 29-15/16<br>200<br>(441)<br>6.7<br>185<br>3,083<br>6,532<br>0.92 x 1<br>7<br>Thermal switch<br>R410A<br>x 9.0kg<br>(20 lbs)<br>ø9.52 (ø38) Brazed              | x 29-15/16<br>215<br>(474)<br>8.2<br>185<br>3,083<br>6,532<br>Propeller fan x ·<br>0.92 x 1<br>Thermal switch<br>R410A<br>x 9.0kg<br>(20 lbs)                     | x 29-15/16<br>245<br>(541)<br>10.5<br>225<br>3,750<br>7,945<br>1<br>0.92 x 1<br>High pres:<br>Thermal switch<br>R410A<br>x 11.5kg<br>(26 lbs)<br>of 5.88 (o5/8) Brazed                          | x 29-15/16<br>215<br>(474)<br>Salt-resiste<br>Inverter so<br>8.2<br>185<br>3,083<br>6,532<br>1<br>0.92 x 1<br>Sure sensor, Hig<br>Ove<br>Thermal switch<br>R410A<br>x 9.0kg<br>(20 lbs)<br>ø12.7 (ø1<br>ø22.2 (ø7  | x 29-15/16<br>215<br>(474)<br>ant cross fin & c<br>croll hermetic co<br>Inverter<br>8.2<br>185<br>3,083<br>6,532<br>Propeller fan x<br>0.92 x 1<br>gh pressure sw<br>er-current protect<br>Thermal switch<br>R410A<br>x 9.0kg<br>(20 lbs)<br>(2) Brazed<br>//8) Brazed   | x 29-15/16<br>245<br>(541)<br>copper tube<br>compressor<br>10.5<br>225<br>3,750<br>7,945<br>1<br>0.92 x 1<br>tch at 4.15 MPa<br>ction<br>Thermal switch<br>R410A<br>x 11.5kg<br>(26 lbs)<br>ø15.88 (ø58) Brazed<br>ø28.58 (ø1-18) Brazed              | x 29-15/16<br>215<br>(474)<br>8.2<br>185<br>3,083<br>6,532<br>0.92 x 1<br>a (601 psi)<br>Thermal switch<br>R410A<br>x 9.0kg<br>(20 lbs)<br>ø12.7 (ø1/2) Brazed                     | x 29-15/16<br>245<br>(541)<br>10.3<br>225<br>3,750<br>7,945<br>Propeller fan x<br>0.92 x 1<br>Thermal switch<br>R410A<br>x 11.5kg<br>(26 lbs)                       | 65 x 48-1/16<br>x 29-15/16<br>245<br>(541)<br>10.5<br>225<br>3,750<br>7,945<br>1<br>0.92 x 1<br>Thermal switc<br>R410A<br>x 11.5kg<br>(26 lbs)<br>ø15.88 (ø5/8) Braze |  |
| H x W x D<br>Net weight<br>Heat exchai<br>Compressor<br>FAN<br>Protection<br>devices<br>Refrigerant<br>Pipe between<br>unit distributor | nger<br>Type<br>Starting met<br>Motor output<br>Air flow rate<br>Type x Quai<br>Motor output<br>High pressure<br>Inverter circc<br>Fan motor<br>Type x Origin<br>Liquid<br>Gas | in.<br>kg(lbs)<br>khod<br>kW<br>m³/min<br>L/s<br>cfm<br>ntity<br>kW<br>protection<br>uit<br>nal charge<br>mm(in.) | 65 x 36-1/4<br>x 29-15/16<br>200<br>(441)<br>6.7<br>185<br>3,083<br>6,532<br>0.92 x 1<br>7<br>Thermal switch<br>R410A<br>x 9.0kg<br>(20 lbs)<br>ø9.52 (ø38) Brazed              | x 29-15/16<br>215<br>(474)<br>8.2<br>185<br>3,083<br>6,532<br>Propeller fan x<br>0.92 x 1<br>Thermal switch<br>R410A<br>x 9.0kg<br>(20 lbs)<br>ø127 (ø1/2) Brazed | x 29-15/16<br>245<br>(541)<br>10.5<br>225<br>3,750<br>7,945<br>1<br>0.92 x 1<br>High pres:<br>Thermal switch<br>R410A<br>x 11.5kg<br>(26 lbs)<br>of 5.88 (o5/8) Brazed                          | x 29-15/16<br>215<br>(474)<br>Salt-resiste<br>Inverter so<br>8.2<br>185<br>3,083<br>6,532<br>1<br>0.92 x 1<br>Sure sensor, Hig<br>Ove<br>Thermal switch<br>R410A<br>x 9.0kg<br>(20 lbs)<br>ø12.7 (ø1<br>ø22.2 (ø7  | x 29-15/16<br>215<br>(474)<br>ant cross fin & c<br>croll hermetic co<br>Inverter<br>8.2<br>185<br>3,083<br>6,532<br>Propeller fan x<br>0.92 x 1<br>gh pressure sw<br>er-current protec<br>Thermal switch<br>R410A<br>x 9.0kg<br>(20 lbs)<br>/2) Brazed   | x 29-15/16<br>245<br>(541)<br>copper tube<br>compressor<br>10.5<br>225<br>3,750<br>7,945<br>1<br>0.92 x 1<br>tch at 4.15 MPa<br>ction<br>Thermal switch<br>R410A<br>x 11.5kg<br>(26 lbs)<br>ø15.88 (ø58) Brazed<br>ø28.58 (ø1-18) Brazed              | x 29-15/16<br>215<br>(474)<br>8.2<br>185<br>3,083<br>6,532<br>0.92 x 1<br>a (601 psi)<br>Thermal switch<br>R410A<br>x 9.0kg<br>(20 lbs)<br>ø12.7 (ø1/2) Brazed                     | x 29-15/16<br>245<br>(541)<br>10.3<br>225<br>3,750<br>7,945<br>Propeller fan x<br>0.92 x 1<br>Thermal switch<br>R410A<br>x 11.5kg<br>(26 lbs)<br>ø12.7 (ø12) Brazed | 65 x 48-1/16<br>x 29-15/16<br>245<br>(541)<br>10.5<br>225<br>3,750<br>7,945<br>1<br>0.92 x 1<br>Thermal switc<br>R410A<br>x 11.5kg<br>(26 lbs)<br>ø15.88 (ø5/8) Braze |  |
| H x W x D<br>Net weight<br>Heat exchan<br>Compressor<br>FAN<br>Protection<br>devices<br>Refrigerant<br>Pipe between                     | nger<br>Type<br>Starting met<br>Motor output<br>Air flow rate<br>Type x Quai<br>Motor output<br>High pressure<br>Inverter circc<br>Fan motor<br>Type x Origin<br>Liquid<br>Gas | in.<br>kg(lbs)<br>khod<br>kW<br>m³/min<br>L/s<br>cfm<br>ntity<br>kW<br>protection<br>uit<br>nal charge<br>mm(in.) | 65 x 36-1/4<br>x 29-15/16<br>200<br>(441)<br>6.7<br>185<br>3,083<br>6,532<br>0.92 x 1<br>7<br>Thermal switch<br>R410A<br>x 9.0kg<br>(20 lbs)<br>ø9.52 (ø38) Brazed              | x 29-15/16<br>215<br>(474)<br>8.2<br>185<br>3,083<br>6,532<br>Propeller fan x<br>0.92 x 1<br>Thermal switch<br>R410A<br>x 9.0kg<br>(20 lbs)<br>ø127 (ø1/2) Brazed | x 29-15/16<br>245<br>(541)<br>10.5<br>225<br>3,750<br>7,945<br>1<br>0.92 x 1<br>High pres:<br>Thermal switch<br>R410A<br>x 11.5kg<br>(26 lbs)<br>of 5.88 (of 0) Brazed<br>a&58 (of 1-18) Brazed | x 29-15/16<br>215<br>(474)<br>Salt-resiste<br>Inverter so<br>8.2<br>185<br>3,083<br>6,532<br>10<br>0.92 x 1<br>Sure sensor, Hig<br>Ove<br>Thermal switch<br>R410A<br>x 9.0kg<br>(20 lbs)<br>ø12.7 (ø1<br>ø22.2 (ø7 | x 29-15/16<br>215<br>(474)<br>ant cross fin & c<br>croll hermetic cu<br>Inverter<br>8.2<br>185<br>3,083<br>6,532<br>Propeller fan x<br>0.92 x 1<br>gh pressure sw<br>current protect<br>Thermal switch<br>R410A<br>x 9.0kg<br>(20 lbs)<br>/2) Brazed<br>/8) Brazed<br>inning kit : CMN   | x 29-15/16<br>245<br>(541)<br>opper tube<br>ompressor<br>10.5<br>225<br>3,750<br>7,945<br>1<br>0.92 x 1<br>tch at 4.15 MPa<br>ction<br>Thermal switch<br>R410A<br>x 11.5kg<br>(26 lbs)<br>ø15.88 (of 6) Brazed<br>ø28.58 (of 1.4) Brazed<br>v2300VBK2 | x 29-15/16<br>215<br>(474)<br>8.2<br>185<br>3,083<br>6,532<br>0.92 x 1<br>a (601 psi)<br>Thermal switch<br>R410A<br>x 9.0kg<br>(20 lbs)<br>ø127 (ø12) Brazed<br>ø222 (ø7/8) Brazed | x 29-15/16<br>245<br>(541)<br>10.3<br>225<br>3,750<br>7,945<br>Propeller fan x<br>0.92 x 1<br>Thermal switch<br>R410A<br>x 11.5kg<br>(26 lbs)<br>ø12.7 (ø12) Brazed | 65 x 48-1/16<br>x 29-15/16<br>245<br>(541)<br>10.5<br>225<br>3,750<br>7,945<br>1<br>0.92 x 1<br>Thermal switc<br>R410A<br>x 11.5kg<br>(26 lbs)<br>ø15.88 (ø5/8) Braze |  |

#### Notes:

| 1, | *2 Nominal conditions |                                      |                                |                   |                  |  |  |  |  |  |
|----|-----------------------|--------------------------------------|--------------------------------|-------------------|------------------|--|--|--|--|--|
|    |                       | Indoor                               | Outdoor                        | Pipe length       | Level difference |  |  |  |  |  |
|    | Cooling               | 27°C DB/19°C WB<br>(81°F DB/66°F WB) | 35°C DB(95°F DB)               | 7.5m (24-9/16ft.) | 0m (0ft.)        |  |  |  |  |  |
|    | Heating               | 20°C DB(68°F DB)                     | 7°C DB/6°C WB(45°F DB/43°F WB) | 7.5m (24-9/16ft.) | 0m (0ft.)        |  |  |  |  |  |
|    |                       |                                      |                                |                   |                  |  |  |  |  |  |

\*3 Reference data under condition of Indoor 27°C DB/19.5°C WB(81°F DB/67°F WB) Outdoor 35°C DB(95°F DB) \*Nominal condition \*1,\*2 are subject to JIS B8615-2. \*Due to continuing improvement, above specification may be subject to change without notice.

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## OUTDOOR UNIT Y Series PUHY-P YSHA(-BS)

### ► Specifications

| Set name                       |                    |                    | P                   | UHY-P1100YSHA(-BS                              | 5)  | F  | UHY-P1150YSHA(-BS                                   | 5)                     |  |  |
|--------------------------------|--------------------|--------------------|---------------------|--|---|--|---|------------------------|--|--|
| Power source                   | e                  |                    |                     |  | ,   | -400-415V 50/60Hz  |   |                        |  |  |
| Cooling cap                    | acitv *1           | kW                 |                     | 124.0  |   |  | 130.0   |                        |  |  |
| (Nominal)                      | *1                 | BTU/h              |                     | 423,100  |   |  | 443,600   |                        |  |  |
| ) í                            | Power input        | kW                 |                     | 35.83  |   |  | 39.39   |                        |  |  |
|                                | Current input      | A                  |                     | 60.4-57.4-55.3                                 |   | 66.4-63.1-60.8   |   |                        |  |  |
|                                | EER (kW/k)         |                    |                     | 3.46   |   |  | 3.30  |                        |  |  |
| Cooling cap                    | · · ·              | kW                 |                     | 126.1  |   |  | 132.2   |                        |  |  |
| Temp.                          | Indoor             | W.B.               |                     | -  | 15~24°C                                     | (59~75°F)  |   |                        |  |  |
| range of cooling               | Outdoor            | D.B.               |                     |  |   | (23~115°F)   |   |                        |  |  |
| Heating cap                    | acity *2           | kW                 |                     | 140.0  |   |  | 145.0   |                        |  |  |
| (Nominal)                      | *2                 | BTU/h              |                     | 477.700  |   |  | 494.700   |                        |  |  |
| (Norminar)                     | Power input        | kW                 |                     | 36.93  |   |  | 39.08   |                        |  |  |
|                                | Current input      | A                  |                     | 62.3-59.2-57.0                                 |   |  | 65.9-62.6-60.4                                      |                        |  |  |
|                                | COP (kW/k)         |                    |                     | 3.79   |   |  | 3.71  |                        |  |  |
| Temp.                          | Indoor temp.       | D.B.               |                     | 5.15   | 15~27°C                                     | (59~81°F)  | 5.71  |                        |  |  |
| range                          | Outdoor temp.      | W.B.               |                     |  |   | C (-4~60°F)  |   |                        |  |  |
| of heating                     | Tatal and a        | <b>4</b>           |                     |  | E0 1200/ of out                             |  |   |                        |  |  |
| Indoor unit                    | Total capaci       |                    |                     | D15 D250 / 2 50                                | 50~130% OF OUL                              | door unit capacity   | D45 D250 / 2 50                                     |                        |  |  |
| connectable                    |                    | ntity              |                     | P15~P250 / 2~50                                |   |  | P15~P250 / 2~50                                     |                        |  |  |
| Sound press                    |                    | dB <a></a>         |                     | 65   |   |  | 65.5  |                        |  |  |
| (measured in ar                | ,                  |                    |                     |  |   |  |   |                        |  |  |
| Power press                    |                    | dB <a></a>         |                     | 85   |   |  | 85.5  |                        |  |  |
| (measured in ar<br>Diameter of | Liquid             |                    |                     | ø19.05 (ø3/4) Brazed                           |   | ø19.05 (ø3/4) Brazed   |   |                        |  |  |
| refrigerant pipe               |                    | mm(in.)<br>mm(in.) |                     | ø19.05 (ø3/4) Brazed<br>ø41.28 (ø1-5/8) Brazed |   |  | Ø19.05 (Ø3/4) Brazed<br>941.28 (Ø1-5/8) Brazed      |                        |  |  |
| 0 11                           |                    |                    |                     | - ( )  |   |  | IY-P350YHA(-BS) PUHY-P350YHA(-BS) PUHY-P450YHA(-BS) |                        |  |  |
| External finis                 |                    |                    | . ,                 | . ,  | . ,   | ing for-BS type) <mun< td=""><td>. ,</td><td>. ,</td></mun<>   | . ,   | . ,                    |  |  |
|                                | 511                | <b>~</b> ~         | 1,650 x 1,220 x 760 | 1,650 x 1,220 x 760                            | 1,650 x 1,220 x 760                         | 1,650 x 1,220 x 760  | 1,650 x 1,220 x 760                                 | 1,650 x 1,220 x 760    |  |  |
| External dimens                | sion H x W x D in. |                    | , ,                 |  |   | 65 x 48-1/16 x 29-15/16  |   |                        |  |  |
| Net weight                     |                    | kg (lbs)           | 245(541)            | 245(541)                                       | 245(541)                                    | 245(541)   | 245(541)  | 245(541)               |  |  |
| Heat exchar                    | ner                | Kġ (lb5)           | 243(341)            | 240(041)                                       |   | s fin & copper tube  | 245(541)  | 240(041)               |  |  |
| ricat exertai                  | Туре               |                    |                     |  |   | metic compressor   |   |                        |  |  |
| Compressor                     | Starting me        | thod               |                     |  |   | erter  |   |                        |  |  |
| Compresser                     | Motor output       | kW                 | 10.3                | 10.3   | 10.5  | 10.3   | 10.3  | 12.0                   |  |  |
|                                | Air flow rate      | m³/min             | 225                 | 225  | 225   | 225  | 225   | 225                    |  |  |
|                                |                    | L/s                | 3,750               | 3,750  | 3,750                                       | 3,750  | 3,750   | 3,750                  |  |  |
| FAN                            |                    | cfm                | 7,945               | 7,945  | 7,945                                       | 7,945  | 7,945   | 7,945                  |  |  |
|                                | Type x Qua         |                    | Propeller fan x 1   | Propeller fan x 1                              | Propeller fan x 1                           | Propeller fan x 1  | Propeller fan x 1                                   | Propeller fan x 1      |  |  |
|                                | Motor output       | kW                 | 0.92 x 1            | 0.92x 1  | 0.92 x 1                                    | 0.92 x 1   | 0.92 x 1  | 0.92 x 1               |  |  |
|                                | High pressure      |                    |                     | High pres                                      |   | sure switch at 4.15 MPa  | a (601 psi)   |                        |  |  |
| Protection                     | Inverter circ      | 1                  |                     |  |   | nt protection  |   |                        |  |  |
| devices                        | Fan motor          |                    | Thermal switch      | Thermal switch                                 | Thermal switch                              | Thermal switch   | Thermal switch                                      | Thermal switch         |  |  |
|                                |                    |                    | R410A x 11.5kg      | R410A x 11.5kg                                 | R410A x 11.5kg                              | R410A x 11.5kg   | R410A x 11.5kg                                      | R410A x 11.5kg         |  |  |
| Refrigerant                    | Type x Origin      | hal charge         | (26 lbs)            | (26 lbs)                                       | (26 lbs)                                    | (26 lbs)   | (26 lbs)  | (26 lbs)               |  |  |
| Pipe between                   | Liquid             | mm(in.)            | ø12.7 (ø1/          | (2) Brazed                                     | ø15.88 (ø5/8) Brazed                        | ø12.7 (ø1  | /2) Brazed  | ø15.88 (ø5/8) Brazed   |  |  |
| unit distributor               | · ·                | mm(in.)            | ø28.58 (ø1-         | ,  | ø28.58 (ø1-1/8) Brazed                      | · · ·  | 1/8) Brazed   | ø28.58 (ø1-1/8) Brazed |  |  |
| Optional par                   |                    | . , ,              |                     | ,  | Outdoor Twinning K<br>t : CMY-Y102SS / LS-C | it : CMY-Y300VBK2<br>G2, CMY-Y202S / 302S<br>04 / 108 / 1010-G | ,   |                        |  |  |

#### Notes:

\*1,\*2 Nominal conditions

|         | Indoor                               | Outdoor                        | Pipe length       | ngth Level difference |  |
|---------|--------------------------------------|--------------------------------|-------------------|-----------------------|--|
| Cooling | 27°C DB/19°C WB<br>(81°F DB/66°F WB) | 35°C DB(95°F DB)               | 7.5m (24-9/16ft.) | 0m (0ft.)             |  |
| Heating | 20°C DB(68°F DB)                     | 7°C DB/6°C WB(45°F DB/43°F WB) | 7.5m (24-9/16ft.) | 0m (0ft.)             |  |

\*3 Reference data under condition of Indoor 27°C DB/19.5°C WB(81°F DB/67°F WB) Outdoor 35°C DB(95°F DB) \*Nominal condition \*1,\*2 are subject to JIS B8615-2. \*Due to continuing improvement, above specification may be subject to change without notice.



Outdoor unit



## OUTDOOR UNIT Y Series PUHY-P YSHA(-BS)

### ► Specifications

| Set name   |               |              | F                       | UHY-P1200YSHA(-BS       | ,   |  | UHY-P1250YSHA(-BS       | 5)                    |  |
|--|---------------|--------------|-------------------------|-------------------------|---|--|-------------------------|-----------------------|--|
| Power source   |               |              |                         |                         | 3-phase 4-wire 380                          | -400-415V 50/60Hz  |                         |                       |  |
| Cooling cap  |               | kW           |                         | 136.0                   |   |  | 140.0                   |                       |  |
| (Nominal)  | *1            | BTU/h        |                         | 464,000                 |   |  | 477,700                 |                       |  |
|  | Power input   | kW           |                         | 41.71                   |   | 46.20  |                         |                       |  |
|  | Current input | А            | 70.4-66.8-64.4          |                         |   | 77.9-74.0-71.4   |                         |                       |  |
|  | EER (kW/kV    | N)           |                         | 3.26                    |   | 3.03   |                         |                       |  |
| Cooling cap  | acity *3      | kW           |                         | 138.3                   |   |  | 142.4                   |                       |  |
| Temp.  | Indoor        | W.B.         |                         |                         | 15~24°C                                     | (59~75°F)  |                         |                       |  |
| range of<br>cooling  | Outdoor       | D.B.         |                         |                         | - 5~46°C (                                  | 23~115°F)  |                         |                       |  |
| Heating cap  | acity *2      | kW           |                         | 150.0                   |   |  | 150.0                   |                       |  |
| (Nominal)  | *2            | BTU/h        |                         | 511,800                 |   |  | 511,800                 |                       |  |
|  | Power input   | kW           |                         | 40.10                   |   |  | 44.77                   |                       |  |
|  | Current input | А            |                         | 67.6-64.3-61.9          |   |  | 75.5-71.7-69.2          |                       |  |
|  | COP (kW/k)    | N)           |                         | 3.74                    |   |  | 3.35                    |                       |  |
| Temp.  | Indoor temp.  | D.B.         |                         |                         | 15~27°C                                     | (59~81°F)  |                         |                       |  |
| range<br>of heating  | Outdoor temp. | W.B.         |                         |                         | -20~15.5°C                                  | C (-4~60°F)  |                         |                       |  |
| Indoor unit  | Total capaci  | ity          |                         |                         | 50~130% of outo                             | loor unit capacity   |                         |                       |  |
|  | Model/Quar    |              |                         | P15~P250 / 2~50         |   |  | P15~P250 / 2~50         |                       |  |
| Sound press<br>(measured in a                                  |               | dB <a></a>   |                         | 66                      |   | 66   |                         |                       |  |
| Power pressure level<br>(measured in anechoic room) dB <a></a> |               |              |                         | 86                      |   |  | 86                      |                       |  |
| Diameter of  | Liquid mm(in. |              |                         | ø19.05 (ø3/4) Brazed    |   | ø19.05 (ø3/4) Brazed   |                         |                       |  |
| refrigerant pipe   | Gas           | mm(in.)      |                         | ø41.28 (ø1-5/8) Brazed  | ł   |  | ø41.28 (ø1-5/8) Brazed  |                       |  |
|  |               |              | PUHY-P350YHA(-BS)       | PUHY-P400YHA(-BS)       | PUHY-P450YHA(-BS)                           | PUHY-P350YHA(-BS)  | PUHY-P450YHA(-BS)       | PUHY-P450YHA(-B       |  |
| External finis   | sh            |              | Pre-c                   | oated galvanized steel  | sheets (+ powder coat                       | ing for-BS type) <mun< td=""><td>SELL 3.0Y 7.8/11 or sir</td><td>nilar&gt;</td></mun<> | SELL 3.0Y 7.8/11 or sir | nilar>                |  |
| External dimens  |               | mm           | 1,650 x 1,220 x 760     | 1,650 x 1,220 x 760     | 1,650 x 1,220 x 760                         | 1,650 x 1,220 x 760  | 1,650 x 1,220 x 760     | 1,650 x 1,220 x 76    |  |
| External dimens  |               | in.          | 65 x 48-1/16 x 29-15/16 | 65 x 48-1/16 x 29-15/16 | 65 x 48-1/16 x 29-15/16                     | 65 x 48-1/16 x 29-15/16  | 65 x 48-1/16 x 29-15/16 | 65 x 48-1/16 x 29-15/ |  |
| Net weight   |               | kg (lbs)     | 245 (541)               | 245 (541)               | 245 (541)                                   | 245 (541)  | 245 (541)               | 245 (541)             |  |
| Heat exchar  | nger          |              |                         |                         | Salt-resistant cros                         | s fin & copper tube  |                         |                       |  |
|  | Туре          |              |                         |                         | Inverter scroll her                         | metic compressor   |                         |                       |  |
| Compressor   | Starting met  | thod         |                         |                         | Inve  | erter  |                         |                       |  |
|  | Motor output  | kW           | 10.3                    | 10.5                    | 12.0  | 10.3   | 12.0                    | 12.0                  |  |
|  | Air flow rate | m³/min       | 225                     | 225                     | 225   | 225  | 225                     | 225                   |  |
|  | [             | L/s          | 3,750                   | 3,750                   | 3,750                                       | 3,750  | 3,750                   | 3,750                 |  |
| FAN  |               | cfm          | 7,945                   | 7,945                   | 7,945                                       | 7,945  | 7,945                   | 7,945                 |  |
|  | Type x Quar   | ntity        | Propeller fan x 1       | Propeller fan x 1       | Propeller fan x 1                           | Propeller fan x 1  | Propeller fan x 1       | Propeller fan x 1     |  |
|  | Motor output  | kW           | 0.92 x 1                | 0.92 x 1                | 0.92 x 1                                    | 0.92 x 1   | 0.92 x 1                | 0.92 x 1              |  |
| Protection   | High pressure | e protection |                         | High pres               | sure sensor, High press                     |  | a (601 psi)             |                       |  |
|  | Inverter circ | uit          |                         |                         | Over-currer                                 | nt protection  |                         |                       |  |
| devices  | Fan motor     |              | Thermal switch          | Thermal switch          | Thermal switch                              | Thermal switch   | Thermal switch          | Thermal switch        |  |
| Defrigerent  |               | al abores    | R410A x 11.5kg          | R410A x 11.5kg          | R410A x 11.5kg                              | R410A x 11.5kg   | R410A x 11.5kg          | R410A x 11.5kg        |  |
| Refrigerant  | Type x Origin | ai charge    | (26 lbs)                | (26 lbs)                | (26 lbs)                                    | (26 lbs)   | (26 lbs)                | (26 lbs)              |  |
| Pipe between   | Liquid        | mm(in.)      | ø12.7 (ø1/2) Brazed     |                         | 5/8) Brazed                                 | ø12.7 (ø1/2) Brazed  | ø15.88 (ø5              | ,                     |  |
| unit distributor   | Gas           | mm(in.)      | ø28.58 (ø1-1/8) Brazed  | ø28.58 (ø1-             | 1/8) Brazed                                 | ø28.58 (ø1-1/8) Brazed   | ø28.58 (ø1-             | 1/8) Brazed           |  |
| Optional par   |               |              |                         | join                    | Outdoor Twinning K<br>t : CMY-Y102SS / LS-0 | it : CMY-Y300VBK2<br>62, CMY-Y202S / 302S  | -G2                     |                       |  |
|  |               |              |                         |                         | Header : CMY-Y1                             | 04 / 108 / 1010-G  |                         |                       |  |

#### Notes:

| ,*2 Nom | inal condition | ns                                   |                                |                   |                  |
|---------|----------------|--------------------------------------|--------------------------------|-------------------|------------------|
|         |                | Indoor                               | Outdoor                        | Pipe length       | Level difference |
| С       | Cooling        | 27°C DB/19°C WB<br>(81°F DB/66°F WB) | 35°C DB(95°F DB)               | 7.5m (24-9/16ft.) | 0m (0ft.)        |
| н       | leating        | 20°C DB(68°F DB)                     | 7°C DB/6°C WB(45°F DB/43°F WB) | 7.5m (24-9/16ft.) | 0m (0ft.)        |
| -       |                |                                      |                                |                   | •                |

\*3 Reference data under condition of Indoor 27°C DB/19.5°C WB(81°F DB/67°F WB) Outdoor 35°C DB(95°F DB) \*Nominal condition \*1,\*2 are subject to JIS B8615-2. \*Due to continuing improvement, above specification may be subject to change without notice.

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### **OUTDOOR UNIT** Y Series - High COP PUHY-EP YJM-A(-BS)

### ► Specifications

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| Model                                 |                      |            | PUHY-EP200YJM-A(-BS)   | PUHY-EP250YJM-A(-BS)   | PUHY-EP300YJM-A(-BS)   |  |
|---------------------------------------|----------------------|------------|--|--|--|--|
| Power source                          |                      |            | 3-phase 4-wire 380-400-415V 50/60Hz  | 3-phase 4-wire 380-400-415V 50/60Hz  | 3-phase 4-wire 380-400-415V 50/60Hz  |  |
| Cooling capacity                      | *1                   | kW         | 22.4   | 28.0   | 33.5   |  |
| (Nominal)                             | *1                   | BTU / h    | 76.400   | 95,500   | 114,300  |  |
|                                       | Power input          | kW         | 5,09   | 6.73   | 8.03   |  |
|                                       | Current input        | A          | 8.5-8.1-7.8  | 11.3-10.7-10.4   | 13.5-12.8-12.4   |  |
|                                       | EER                  | kW / kW    | 4.40   | 4.16   | 4.17   |  |
| Temp. range of                        | Indoor               | W.B.       | 15.0~24.0°C(59~75°F)   | 15.0~24.0°C(59~75°F)   | 15.0~24.0°C(59~75°F)   |  |
| coolina                               | Outdoor              | D.B.       | -5.0~46.0°C(23~115°F)  | -5.0~46.0°C(23~115°F)  | -5.0~46.0°C(23~115°F)  |  |
| Heating capacity                      | *2                   | kW         | 25.0   | 31.5   | 37.5   |  |
| (Nominal)                             | *2                   | BTU / h    | 85,300   | 107.500  | 128.000  |  |
| ()                                    | Power input          | kW         | 5.54   | 7.15   | 8.37   |  |
|                                       | Current input        | A          | 9.3-8.8-8.5  | 12.0-11.4-11.0   | 14.1-13.4-12.9   |  |
|                                       | COP                  | kW / kW    | 4.51   | 4.40   | 4.48   |  |
| Temp. range of                        | Indoor               | D.B.       | 15.0~27.0°C(59~81°F)   | 15.0~27.0°C(59~81°F)   | 15.0~27.0°C(59~81°F)   |  |
| heating                               | Outdoor              | W.B.       | -20.0~15.5°C(-4~60°F)  | -20.0~15.5°C(-4~60°F)  | -20.0~15.5°C(-4~60°F)  |  |
| Indoor unit                           | Total capacity       | VV.D.      | 50~130 % of outdoor unit capacity  | 50~130 % of outdoor unit capacity  | 50~130 % of outdoor unit capacity  |  |
| connectable                           | Model / Quantity     |            | P15~P250 / 1~17  | P15~P250 / 1~21  | P15~P250 / 1~26  |  |
| Sound pressure le                     |                      |            | F15~F25071~17  | F15~F25071~21  | F15~F25071~20  |  |
| (measured in ane                      | choic room)          | dB <a></a> | 57   | 60   | 61   |  |
| Power pressure le<br>(measured in ane |                      | dB <a></a> | 77   | 80   | 81   |  |
| Refrigerant piping                    | Liquid pipe          | mm (in.)   | 9.52(3/8) Brazed   | 9.52(3/8) Brazed (12.7(1/2) Brazed,total length >= 90m)  | 9.52(3/8) Brazed (12.7(1/2) Brazed,total length >= 40m   |  |
| diameter                              | Gas pipe             | mm (in.)   | 19.05(3/4) Brazed  | 22.2(7/8) Brazed   | 22.2(7/8) Brazed   |  |
| FAN                                   | Type x Quantity      |            | Propeller fan x 1  | Propeller fan x 1  | Propeller fan x 2  |  |
|                                       | Air flow rate        | m³/min     | 170  | 210  | 370  |  |
|                                       |                      | L/s        | 2,833  | 3,500  | 6,167  |  |
|                                       |                      | cfm        | 6,003  | 7,415  | 13,065   |  |
|                                       | Driving mechanis     | m          | Inverter-control, Direct-driven by motor   | Inverter-control, Direct-driven by motor   | Inverter-control, Direct-driven by motor   |  |
|                                       | Motor output         | kW         | 0.46 x 1   | 0.46 x 1   | 0.46 x 2   |  |
| *3                                    | B External static pr | ess.       | 0 Pa (0 mmH <sub>2</sub> O)  | 0 Pa (0 mmH <sub>2</sub> O)  | 0 Pa (0 mmH <sub>2</sub> O)  |  |
| Compressor                            | Type x Quantity      |            | Inverter scroll hermetic compressor  | Inverter scroll hermetic compressor  | Inverter scroll hermetic compressor  |  |
|                                       | Starting method      |            | Inverter   | Inverter   | Inverter   |  |
|                                       | Motor output         | kW         | 5.4  | 6.8  | 7.7  |  |
|                                       | Case heater          | kW         | 0.035  | 0.045  | 0.045  |  |
| External finish                       |                      |            | Pre-coated galvanized steel sheets<br>(+powder coating for -BS type)<br><munsell 1="" 5y="" 8="" or="" similar=""></munsell> | Pre-coated galvanized steel sheets<br>(+powder coating for -BS type)<br><munsell 1="" 5y="" 8="" or="" similar=""></munsell> | Pre-coated galvanized steel sheets<br>(+powder coating for -BS type)<br><munsell 1="" 5y="" 8="" or="" similar=""></munsell> |  |
| External dimension                    | on HxWxD             | mm         | 1,710(1,650 without legs) x 920 x 760  | 1,710(1,650 without legs) x 1,220 x 760  | 1,710(1,650 without legs) x 1,750 x 760  |  |
|                                       |                      | in.        | 67-3/8(65 without legs) x 36-1/4 x 29-15/16  | 67-3/8(48-1/16 without legs) x 48-1/16 x 29-15/16  | 67-3/8(65 without legs) x 68-15/16 x 29-15/1   |  |
| Protection<br>devices                 | High pressure pro    | otection   | High pressure sensor, High pressure switch<br>at 4.15MPa (601 psi)   | High pressure sensor, High pressure switch<br>at 4.15MPa (601 psi)   | High pressure sensor, High pressure switc<br>at 4.15MPa (601 psi)  |  |
| UEVICES                               | Inverter circuit     |            | Over-current protection  | Over-current protection  | Over-current protection  |  |
|                                       |                      |            |  |  |  |  |
| Defrigerent                           | Fan motor            |            | Thermal switch   | Thermal switch   | Thermal switch   |  |
| Refrigerant                           | Type x original ch   |            | R410A x 8.0kg (18lbs)  | R410A x 11.5kg (26lbs)   | R410A x 11.8kg (27lbs)   |  |
| Net weight                            |                      | kg (lbs)   | 200(441)   | 250(552)   | 290(640)   |  |
| Heat exchanger                        |                      |            | Salt-resistant cross fin & copper tube   | Salt-resistant cross fin & copper tube   | Salt-resistant cross fin & copper tube   |  |
| Optional parts                        |                      |            | Joint: CMY-Y102SS-G2   | Joint: CMY-Y102SS/LS-G2  | Joint: CMY-Y102SS/LS-G2  |  |
|                                       |                      |            | Header: CMY-Y104/108/1010-G  | Header: CMY-Y104/108/1010-G  | Header: CMY-Y104/108/1010-G  |  |

OUTDOOR UNIT Y Series - High COP PUHY-EP YSJM-A (-BS)



## ► Specifications

| Model                                 |                   |            | PUHY-EP400                                     | YSJM-A(-BS)   | PUHY-EP450                                     | YSJM-A(-BS)   | PUHY-EP500                                     | YSJM-A(-BS)   |  |
|---------------------------------------|-------------------|------------|--|---|--|---|--|---|--|
| Power source                          |                   |            | 3-phase 4-wire 380                             | -400-415V 50/60Hz   | 3-phase 4-wire 380                             | -400-415V 50/60Hz   | 3-phase 4-wire 380                             | -400-415V 50/60Hz   |  |
| Cooling capacity                      | *1                | kW         | 4  | 5.0   | 5  | 0.0   | 56   | 6.0   |  |
| (Nominal)                             | *1                | BTU / h    | 153  | ,500  | 170  | ,600  | 191  | ,100  |  |
|                                       | Power input kW    |            | 10.34  |   | 11.87  |   | 13.30  |   |  |
|                                       | Current input     | A          | 17.4-10  | 17.4-16.5-15.9  |  | 20.0-19.0-18.3  |  | 22.4-21.3-20.5  |  |
|                                       | EER               | kW / kW    | 4.   | 35  | 4.   | .21   | 4.   | 21  |  |
| Temp. range of                        | Indoor            | W.B.       | 15.0~24.0°                                     | C(59~75°F)  | 15.0~24.0°                                     | C(59~75°F)  | 15.0~24.0°                                     | C(59~75°F)  |  |
| cooling                               | Outdoor           | D.B.       |  | C(23~115°F)   |  | C(23~115°F)   | -5.0~46.0°C(23~115°F)                          |   |  |
| Heating capacity                      | *2                |            |  | 0.0   |  | 6.0   |  | 3.0   |  |
| (Nominal)                             |                   | BTU/h      |  | ,600  |  | .100  |  | ,000  |  |
| ()                                    | Power input       | kW         |  | .41   |  | .90   |  | .28   |  |
|                                       | Current input     | A          |  | 3.2-17.6  |  | 0.6-19.9  |  | 2.9-22.0  |  |
|                                       | COP               | kW / kW    |  | 38  |  | .34   |  | 41  |  |
| Temp. range of                        | Indoor            | D.B.       |  | C(59~81°F)  |  | C(59~81°F)  |  | C(59~81°F)  |  |
| heating                               | Outdoor           | W.B.       |  | °C(-4~60°F)   |  | °C(-4~60°F)   |  | °C(-4~60°F)   |  |
| Indoor unit                           | Total capacity    | W.D.       |  | door unit capacity  |  | door unit capacity  |  | door unit capacity  |  |
| connectable                           | Model / Quantity  |            |  | 50 / 1~35   |  | 50 / 1~39   |  | 50 / 1~43   |  |
| Sound pressure le                     |                   |            | P15~P2   | 3071~33   | P15~P2   | 5071~39   | P15~P2   | 3071~43   |  |
| (measured in ane                      |                   | dB <a></a> | 6  | 60  | 6  | 52  | 62   | 2.5   |  |
| Power pressure le<br>(measured in ane |                   | dB <a></a> | ε  | 80  | 8  | 32  | 82   | 2.5   |  |
| Refrigerant piping                    | Liquid pipe       | mm (in.)   | 12.7(1/2                                       | ) Brazed  | 15.88(5/                                       | 8) Brazed   | 15.88(5/                                       | 8) Brazed   |  |
| diameter                              | Gas pipe          | mm (in.)   | 28.58(1-1                                      | /8) Brazed  | 28.58(1-1                                      | /8) Brazed  | 28.58(1-1                                      | /8) Brazed  |  |
| Set Model                             | 1 1 1 -           |            |  |   |  |   |  |   |  |
| Model                                 |                   |            | PUHY-  | PUHY-   | PUHY-  | PUHY-   | PUHY-  | PUHY-   |  |
|                                       |                   |            | EP200YJM-A(-BS)                                | EP200YJM-A(-BS)   | EP200YJM-A(-BS)                                | EP250YJM-A(-BS)   | EP200YJM-A(-BS)                                | EP300YJM-A(-BS)   |  |
| FAN                                   | Type x Quantity   |            | Propeller fan x 1                              | Propeller fan x 1   | Propeller fan x 1                              | Propeller fan x 1   | Propeller fan x 1                              | Propeller fan x 2   |  |
|                                       | Air flow rate     | m³/min     | 170  | 170   | 170  | 210   | 170  | 370   |  |
|                                       |                   | L/s        | 2.833  | 2.833   | 2.833  | 3.500   | 2.833  | 6.167   |  |
|                                       |                   | cfm        | 6,003  | 6,003   | 6,003  | 7.415   | 6,003  | 13,065  |  |
|                                       | Driving mechanism |            | Inverter-control, Direct-driven by motor       |   |  | rect-driven by motor  |  | rect-driven by motor  |  |
|                                       | Motor output      | kW         | 0.46 x 1                                       | 0.46 x 1  | 0.46 x 1                                       | 0.46 x 1  | 0.46 x 1                                       | 0.46 x 2  |  |
| *3                                    | External static p |            | 0 Pa (0 mmH <sub>2</sub> O)                    | 0 Pa (0 mmH <sub>2</sub> O)                                 | 0 Pa (0 mmH <sub>2</sub> O)                    | 0 Pa (0 mmH <sub>2</sub> O)                                 | 0 Pa (0 mmH <sub>2</sub> O)                    | 0 Pa (0 mmH <sub>2</sub> O)                                 |  |
| Compressor                            | Type x Quantity   | 000.       |  | metic compressor  |  | metic compressor  |  | metic compressor  |  |
| 00110163301                           | Starting method   |            | Inverter                                       | Inverter  | Inverter                                       | Inverter  | Inverter                                       | Inverter  |  |
|                                       | Motor output      | kW         | 5.4  | 5.4   | 5.4  | 6.8   | 5.4  | 7.7   |  |
|                                       | Case heater       | kW         | 0.035  | 0.035   | 0.035  | 0.045   | 0.035  | 0.045   |  |
| External finish                       | Case nealer       | KVV        |  |   |  |   |  |   |  |
|                                       |                   |            | (+powder coati                                 | nized steel sheets<br>ng for -BS type)<br>( 8/1 or similar> | (+powder coati                                 | nized steel sheets<br>ng for -BS type)<br>( 8/1 or similar> | (+powder coati                                 | nized steel sheets<br>ng for -BS type)<br>( 8/1 or similar> |  |
| External dimensio                     | on HxWxD          | mm         | 1,710(1,650 without<br>legs) x 920 x 760       | 1,710(1,650 without<br>legs) x 920 x 760                    | 1,710(1,650 without<br>legs) x 920 x 760       | 1,710(1,650 without legs) x 1,220 x 760                     | 1,710(1,650 without<br>legs) x 920 x 760       | 1,710(1,650 withou<br>legs) x 1,750 x 760                   |  |
|                                       |                   | in.        | 67-3/8(65 without legs)<br>x 36-1/4 x 29-15/16 | 67-3/8(65 without legs)<br>x 36-1/4 x 29-15/16              | 67-3/8(65 without legs)<br>x 36-1/4 x 29-15/16 | 67-3/8(65 without legs)<br>x 48-1/16 x 29-15/16             | 67-3/8(65 without legs)<br>x 36-1/4 x 29-15/16 | 67-3/8(65 without legs<br>x 68-15/16 x 29-15/16             |  |
| Protection devices                    | High pressure pr  | rotection  | High pressure sensor<br>at 4.15MP              | , High pressure switch<br>a (601 psi)                       | High pressure sensor<br>at 4.15MF              | , High pressure switch<br>Pa (601 psi)                      | High pressure sensor<br>at 4.15MP              | ; High pressure switc<br>a (601 psi)                        |  |
|                                       | Inverter circuit  |            | Over-curre                                     | nt protection   | Over-curre                                     | nt protection   | Over-currer                                    | nt protection   |  |
|                                       | Fan motor         | -          | Thermal switch                                 | Thermal switch  | Thermal switch                                 | Thermal switch  | Thermal switch                                 | Thermal switch  |  |
| Refrigerant                           | Type x original c | harge      | R410A x 8.0kg (18lbs)                          | R410A x 8.0kg (18lbs)                                       | R410A x 8.0kg (18lbs)                          | R410A x 11.5kg (26lbs)                                      | R410A x 8.0kg (18lbs)                          | R410A x 11.8kg (27lbs                                       |  |
| Net weight                            |                   | kg (lbs)   | 200(441)                                       | 200(441)  | 200(441)                                       | 250(552)  | 200(441)                                       | 290(640)  |  |
| Heat exchanger                        |                   |            |  | s fin & copper tube   |  | s fin & copper tube   |  | s fin & copper tube   |  |
| Pipe between unit                     | Liquid pipe       | mm (in.)   | 9.52(3/8) Brazed                               | 9.52(3/8) Brazed  | 9.52(3/8) Brazed                               | 9.52(3/8) Brazed  | 9.52(3/8) Brazed                               | 12.7(1/2) Brazed  |  |
| and distributor                       | Gas pipe          | mm (in.)   |  | 19.05(3/4) Brazed   | 19.05(3/4) Brazed                              | 22.2(7/8) Brazed  | 19.05(3/4) Brazed                              | 22.2(7/8) Brazed  |  |
| Optional parts                        | 1 - 10 pipe       |            |  | kit: CMY-Y100VBK2   |  | kit: CMY-Y100VBK2   |  | kit: CMY-Y100VBK2   |  |
| optional parts                        |                   |            |  | S-G2, CMY-Y202S-G2  |  | S-G2. CMY-Y202S-G2  | Joint: CMY-Y102SS/L                            |   |  |
|                                       |                   |            |  | 104/108/1010-G  |  | 104/108/1010-G  |  | 104/108/1010-G  |  |
|                                       |                   |            |  | 10-1100/1010-0  |  | 10-1100/1010-0  |  |   |  |

#### Notes:

\*1,\*2 Nominal conditions

|         | Indoor                               | Outdoor                        | Pipe length       | Level difference |
|---------|--------------------------------------|--------------------------------|-------------------|------------------|
| Cooling | 27°C DB/19°C WB<br>(81°F DB/66°F WB) | 35°C DB(95°F DB)               | 7.5m (24-9/16ft.) | 0m (0ft.)        |
| Heating | 20°C DB(68°F DB)                     | 7°C DB/6°C WB(45°F DB/43°F WB) | 7.5m (24-9/16ft.) | 0m (0ft.)        |

\*3 External static pressure option is available (30Pa, 60Pa / 3.1mmH<sub>2</sub>O, 6.1mmH<sub>2</sub>O). \*Nominal condition \*1,\*2 are subject to JIS B8615-2. \*Due to continuing improvement, above specification may be subject to change without notice.



Page 57

#### Notes: \*1 \*2 Nominal conditio

| *1,*2 | Nominal condition | ıs                                   |                                |                   |                  |
|-------|-------------------|--------------------------------------|--------------------------------|-------------------|------------------|
| Γ     |                   | Indoor                               | Outdoor                        | Pipe length       | Level difference |
|       | Cooling           | 27°C DB/19°C WB<br>(81°F DB/66°F WB) | 35°C DB(95°F DB)               | 7.5m (24-9/16ft.) | 0m (0ft.)        |
|       | Heating           | 20°C DB(68°F DB)                     | 7°C DB/6°C WB(45°F DB/43°F WB) | 7.5m (24-9/16ft.) | 0m (0ft.)        |

\*3 External static pressure option is available (30Pa, 60Pa / 3.1mmH<sub>2</sub>O, 6.1mmH<sub>2</sub>O). \*Nominal condition \*1,\*2 are subject to JIS B8615-2. \*Due to continuing improvement, above specification may be subject to change without notice.

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# OUTDOOR UNIT Y Series - High COP PUHY-EP YSJM-A(1) (-BS)

| Model   |                  |            | PUHY-EP500YSJM-A1(-BS)              | PUHY-EP550YSJM-A(-BS)               | PUHY-EP600YSJM-A(-BS)                 |
|---|------------------|------------|-------------------------------------|-------------------------------------|---------------------------------------|
| Power source  |                  |            | 3-phase 4-wire 380-400-415V 50/60Hz | 3-phase 4-wire 380-400-415V 50/60Hz | 3-phase 4-wire 380-400-415V 50/60Hz   |
| Cooling capacity                                    | *1               | kW         | 56.0                                | 63.0                                | 69.0                                  |
| (Nominal)   | *1               | BTU / h    | 191,100                             | 215,000                             | 235,400                               |
|   | Power input      | kW         | 13.65                               | 15.36                               | 16.82                                 |
|   | Current input    | A          | 23.0-21.8-21.0                      | 25.9-24.6-23.7                      | 28.3-26.9-26.0                        |
|   | EER              | kW / kW    | 4.10                                | 4.10                                | 4.10                                  |
| Temp. range of                                      | Indoor           | W.B.       | 15.0~24.0°C(59~75°F)                | 15.0~24.0°C(59~75°F)                | 15.0~24.0°C(59~75°F)                  |
| cooling   | Outdoor          | D.B.       | -5.0~46.0°C(23~115°F)               | -5.0~46.0°C(23~115°F)               | -5.0~46.0°C(23~115°F)                 |
| Heating capacity                                    | *2               | kW         | 63.0                                | 69.0                                | 76.5                                  |
| (Nominal)   | *2 BTU / h       |            | 215,000                             | 235,400                             | 261,000                               |
|   | Power input      | kW         | 14.54                               | 15.78                               | 17.30                                 |
|   | Current input    | A          | 24.5-23.3-22.4                      | 26.6-25.3-24.3                      | 29.2-27.7-26.7                        |
|   | COP              | kW / kW    | 4.33                                | 4.37                                | 4.42                                  |
| Temp. range of                                      | Indoor           | D.B.       | 15.0~27.0°C(59~81°F)                | 15.0~27.0°C(59~81°F)                | 15.0~27.0°C(59~81°F)                  |
| heating   | Outdoor          | W.B.       | -20.0~15.5°C(-4~60°F)               | -20.0~15.5°C(-4~60°F)               | -20.0~15.5°C(-4~60°F)                 |
| Indoor unit   | Total capacity   |            | 50~130 % of outdoor unit capacity   | 50~130 % of outdoor unit capacity   | 50~130 % of outdoor unit capacity     |
| connectable   | Model / Quantity |            | P15~P250 / 1~43                     | P15~P250 / 1~47                     | P15~P250 / 1~50                       |
| Sound pressure le<br>(measured in aneo              |                  | dB <a></a> | 63                                  | 63.5                                | 64                                    |
| Power pressure level<br>(measured in anechoic room) |                  | dB <a></a> | 83                                  | 83.5                                | 84                                    |
| Refrigerant piping                                  | Liquid pipe      | mm (in.)   | 15.88(5/8) Brazed                   | 15.88(5/8) Brazed                   | 15.88(5/8) Brazed                     |
| diameter  | Gas pipe         | mm (in.)   | 28.58(1-1/8) Brazed                 | 28.58(1-1/8) Brazed                 | 28.58(1-1/8) Brazed                   |
| Set Model   |                  |            | •                                   | · · · · ·                           | · · · · · · · · · · · · · · · · · · · |

| Model             |                    |                     | PUHY-<br>EP250YJM-A(-BS)  | PUHY-<br>EP250YJM-A(-BS)    |   | PUHY-<br>EP300YJM-A(-BS)           | PUHY-<br>EP300YJM-A(-BS)                                      | PUHY-<br>EP300YJM-A(-BS)           |  |
|-------------------|--------------------|---------------------|---|-----------------------------|---|------------------------------------|---|------------------------------------|--|
| FAN               | Type x Quantity    |                     | Propeller fan x 1   | Propeller fan x 1           | Propeller fan x 1   | Propeller fan x 2                  | Propeller fan x 2   | Propeller fan x 2                  |  |
|                   | Air flow rate      | m³/min              | 210   | 210                         | 210   | 370                                | 370   | 370                                |  |
|                   |                    | L/s                 | 3,500   | 3,500                       | 3,500   | 6,167                              | 6,167   | 6,167                              |  |
|                   |                    | cfm                 | 7,415   | 7,415                       | 7,415   | 13,065                             | 13,065  | 13,065                             |  |
|                   | Driving mechanism  |                     | Inverter-control, Dir   | ect-driven by motor         | Inverter-control, Dir   | ect-driven by motor                | Inverter-control, Dir   | rect-driven by motor               |  |
|                   | Motor output       | kW                  | 0.46 x 1  | 0.46 x 1                    | 0.46 x 1  | 0.46 x 2                           | 0.46 x 2  | 0.46 x 2                           |  |
| *3                | External static pr | ess.                | 0 Pa (0 mmH <sub>2</sub> O)   | 0 Pa (0 mmH <sub>2</sub> O) | 0 Pa (0 mmH <sub>2</sub> O)   | 0 Pa (0 mmH <sub>2</sub> O)        | 0 Pa (0 mmH <sub>2</sub> O)                                   | 0 Pa (0 mmH <sub>2</sub> O)        |  |
| Compressor        | Type x Quantity    |                     | Inverter scroll her   | metic compressor            | Inverter scroll her   | metic compressor                   | Inverter scroll her   | rmetic compressor                  |  |
|                   | Starting method    |                     | Inverter  | Inverter                    | Inverter  | Inverter                           | Inverter  | Inverter                           |  |
|                   | Motor output       | kW                  | 6.8   | 6.8                         | 6.8   | 7.7                                | 7.7   | 7.7                                |  |
|                   | Case heater        | kW                  | 0.045   | 0.045                       | 0.045   | 0.045                              | 0.045   | 0.045                              |  |
| External finish   |                    |                     | Pre-coated galvanized steel sheets Pre-c  |                             | Pre-coated galva  | Pre-coated galvanized steel sheets |   | Pre-coated galvanized steel sheets |  |
|                   |                    |                     | (+powder coati  | ng for -BS type)            | (+powder coati  | ng for -BS type)                   | (+powder coati  | ng for -BS type)                   |  |
|                   |                    |                     | <munsell 5y<="" td=""><td>' 8/1 or similar&gt;</td><td><munsell 5y<="" td=""><td>' 8/1 or similar&gt;</td><td><munsell 51<="" td=""><td>/ 8/1 or similar&gt;</td></munsell></td></munsell></td></munsell> | ' 8/1 or similar>           | <munsell 5y<="" td=""><td>' 8/1 or similar&gt;</td><td><munsell 51<="" td=""><td>/ 8/1 or similar&gt;</td></munsell></td></munsell> | ' 8/1 or similar>                  | <munsell 51<="" td=""><td>/ 8/1 or similar&gt;</td></munsell> | / 8/1 or similar>                  |  |
| External dimensio | n HxWxD            | mm                  | 1,710(1,650 without   | 1,710(1,650 without         | 1,710(1,650 without   | 1,710(1,650 without                | 1,710(1,650 without   | 1,710(1,650 without                |  |
|                   |                    |                     | legs) x 1,220 x 760   | legs) x 1,220 x 760         | legs) x 1,220 x 760   | legs) x 1,750 x 760                | legs) x 1,750 x 760   | legs) x 1,750 x 760                |  |
|                   |                    | in.                 | 67-3/8(65 without legs)   | 67-3/8(65 without legs)     | 67-3/8(65 without legs)   | 67-3/8(65 without legs)            | 67-3/8(65 without legs)                                       | 67-3/8(65 without legs)            |  |
|                   |                    |                     | x 48-1/16 x 29-15/16  | x 48-1/16 x 29-15/16        | x 48-1/16 x 29-15/16  | x 68-15/16 x 29-15/16              | x 68-15/16 x 29-15/16   | x 68-15/16 x 29-15/16              |  |
| Protection        | High pressure pr   | otection            | High pressure sensor  | , High pressure switch      | High pressure sensor  | High pressure switch               | High pressure sensor  | ; High pressure switch             |  |
| devices           |                    |                     | at 4.15MP   | a (601 psi)                 | at 4.15MP   | a (601 psi)                        | at 4.15MP   | Pa (601 psi)                       |  |
|                   | Inverter circuit   |                     | Over-currer   | nt protection               | Over-currer   | nt protection                      | Over-currer   | nt protection                      |  |
|                   | Fan motor          |                     | Thermal switch  | Thermal switch              | Thermal switch  | Thermal switch                     | Thermal switch  | Thermal switch                     |  |
| Refrigerant       | Type x original cl | narge               | R410A x 11.5kg (26lbs)  | R410A x 11.5kg (26lbs)      | R410A x 11.5kg (26lbs)  | R410A x 11.8kg (27lbs)             | R410A x 11.8kg (27lbs)  | R410A x 11.8kg (27lbs)             |  |
| Net weight        |                    | kg (lbs)            | 250(552)  | 250(552)                    | 250(552)  | 290(640)                           | 290(640)  | 290(640)                           |  |
| Heat exchanger    |                    | Salt-resistant cros | s fin & copper tube   | Salt-resistant cros         | s fin & copper tube   | Salt-resistant cros                | s fin & copper tube   |                                    |  |
| Pipe between unit | Liquid pipe        | mm (in.)            | 9.52(3/8) Brazed  | 9.52(3/8) Brazed            | 9.52(3/8) Brazed  | 12.7(1/2) Brazed                   | 12.7(1/2) Brazed  | 12.7(1/2) Brazed                   |  |
| and distributor   | Gas pipe           | mm (in.)            | 22.2(7/8) Brazed  | 22.2(7/8) Brazed            | 22.2(7/8) Brazed  | 22.2(7/8) Brazed                   | 22.2(7/8) Brazed  | 22.2(7/8) Brazed                   |  |
| Optional parts    |                    |                     |   | kit: CMY-Y100VBK2           |   | tit: CMY-Y100VBK2                  |   | kit: CMY-Y100VBK2                  |  |
|                   |                    |                     |   | S-G2, CMY-Y202S-G2          |   | S-G2, CMY-Y202S-G2                 |   | S-G2, CMY-Y202S-G2                 |  |
|                   |                    |                     | Header: CMY-Y   | 104/108/1010-G              | Header: CMY-Y   | 104/108/1010-G                     | Header: CMY-Y   | '104/108/1010-G                    |  |

Notes:

\*1,\*2 Nominal conditions

| ., |         |                                      |                                |                   |                  |
|----|---------|--------------------------------------|--------------------------------|-------------------|------------------|
|    | /       | Indoor                               | Indoor Outdoor Pipe length     |                   | Level difference |
|    | Cooling | 27°C DB/19°C WB<br>(81°F DB/66°F WB) | 35°C DB(95°F DB)               | 7.5m (24-9/16ft.) | 0m (0ft.)        |
|    | Heating | 20°C DB(68°F DB)                     | 7°C DB/6°C WB(45°F DB/43°F WB) | 7.5m (24-9/16ft.) | 0m (0ft.)        |

\*3 External static pressure option is available (30Pa, 60Pa / 3.1mmH<sub>2</sub>O, 6.1mmH<sub>2</sub>O). \*Nominal condition \*1,\*2 are subject to JIS B8615-2. \*Due to continuing improvement, above specification may be subject to change without notice.



OUTDOOR UNIT Y Series - High COP PUHY-EP YSJM-A (-BS)



► Specifications

| Model                                |                               | _          | PI                          | JHY-EP650YSJM-A(-E                            | 3S)                         | PI                          | JHY-EP700YSJM-A(-E                            | 3S)                                    |
|--------------------------------------|-------------------------------|------------|-----------------------------|---|-----------------------------|-----------------------------|---|--|
| Power source                         |                               |            |                             | 4-wire 380-400-415V                           |                             |                             | 4-wire 380-400-415V                           |  |
| Cooling capacity                     | *1                            | kW         |                             | 73.0  |                             |                             | 80.0  |  |
| (Nominal)                            | *1                            | BTU / h    |                             | 249,100                                       |                             |                             | 273,000                                       |  |
|                                      | Power input                   | kW         |                             | 17.46   |                             | 19.13                       |   |  |
|                                      | Current input                 | A          |                             | 29.4-28.0-26.9                                |                             | 32.2-30.6-29.5              |   |  |
|                                      | EER                           | kW / kW    | 4.18                        |   |                             |                             | 4.18  |  |
| Temp. range of                       | Indoor                        | W.B.       |                             | 15.0~24.0°C(59~75°F                           | )                           | 15.0~24.0°C(59~75°F)        |   |  |
| cooling                              | Outdoor                       | D.B.       |                             | -5.0~46.0°C(23~115°F                          |                             |                             | -5.0~46.0°C(23~115°F                          | /                                      |
| Heating capacity                     | *2                            |            |                             | 81.5  | /                           |                             | 88.0  | /                                      |
| (Nominal)                            | *2                            | BTU / h    |                             | 278.100                                       |                             |                             | 300.300                                       |  |
| ()                                   | Power input kW                |            |                             | 18.56   |                             |                             | 20.00   |  |
|                                      | Current input                 | A          |                             | 31.3-29.7-28.6                                |                             |                             | 33.7-32.0-30.9                                |  |
|                                      | COP                           | kW / kW    |                             | 4.39  |                             |                             | 4.40  |  |
| Temp. range of                       | Indoor                        | D.B.       |                             | 15.0~27.0°C(59~81°F                           | )                           |                             | 15.0~27.0°C(59~81°F                           | )                                      |
| heating                              | Outdoor                       | W.B.       |                             | -20.0~15.5°C(-4~60°F                          |                             |                             | -20.0~15.5°C(-4~60°F                          |  |
| Indoor unit                          | Total capacity                | 11.0.      |                             | 30 % of outdoor unit ca                       |                             |                             | 30 % of outdoor unit ca                       |  |
| connectable                          | Model / Quantity              |            | 00 1                        | P15~P250 / 1~50                               |                             | 00 1                        | P15~P250 / 1~50                               | ······································ |
| Sound pressure le                    |                               |            |                             |   |                             |                             |   |  |
| (measured in ane                     |                               | dB <a></a> |                             | 63  |                             |                             | 63.5  |  |
| Power pressure le                    | 1                             |            |                             |   |                             |                             |   |  |
| (measured in ane                     |                               | dB <a></a> |                             | 83  |                             | 83.5                        |   |  |
|                                      |                               | mm (in.)   |                             | 15.88 (5/8) Brazed                            |                             | 19.05(3/4) Brazed           |   |  |
| diameter Gas pipe mm (in.            |                               |            |                             | 28.58 (1-1/8) Brazed                          |                             | 34.93(1-3/8) Brazed         |   |  |
| Set Model                            |                               |            |                             |   |                             |                             |   |  |
| Model                                |                               |            | PUHY-                       | PUHY-   | PUHY-                       | PUHY-                       | PUHY-   | PUHY-                                  |
|                                      |                               |            | EP200YJM-A(-BS)             | EP200YJM-A(-BS)                               | EP250YJM-A(-BS)             | EP200YJM-A(-BS)             | EP200YJM-A(-BS)                               | EP300YJM-A(-BS)                        |
| FAN                                  | Type x Quantity               |            | Propeller fan x 1           | Propeller fan x 1                             | Propeller fan x 1           | Propeller fan x 1           | Propeller fan x 1                             | Propeller fan x 2                      |
|                                      | Air flow rate                 | m³/min     | 170                         | 170   | 210                         | 170                         | 170   | 370                                    |
|                                      |                               | L/s        | 2.833                       | 2.833   | 3.500                       | 2.833                       | 2.833   | 6,167                                  |
|                                      |                               | cfm        | 6,003                       | 6.003   | 7.415                       | 6.003                       | 6.003   | 13.065                                 |
|                                      | Driving mechanis              | sm         |                             | -control, Direct-driven                       | by motor                    | Inverter                    | -control, Direct-driven                       | by motor                               |
|                                      | Motor output                  | kW         | 0.46 x 1                    | 0.46 x 1                                      | 0.46 x 1                    | 0.46 x 1                    | 0.46 x 1                                      | 0.46 x 2                               |
| *0                                   | External static pr            |            | 0 Pa (0 mmH <sub>2</sub> O) |   |                             |                             |   |  |
|                                      | 1                             | 622.       |                             | 0 Pa (0 mmH <sub>2</sub> O)                   | 0 Pa (0 mmH <sub>2</sub> O) | 0 Pa (0 mmH <sub>2</sub> O) | 0 Pa (0 mmH <sub>2</sub> O)                   | 0 Pa (0 mmH <sub>2</sub> O)            |
| Compressor                           | Type x Quantity               |            |                             | er scroll hermetic comp                       |                             |                             | er scroll hermetic comp                       |  |
|                                      | Starting method               |            | Inverter                    | Inverter                                      | Inverter                    | Inverter                    | Inverter                                      | Inverter                               |
|                                      | Motor output                  | kW         | 5.4                         | 5.4   | 6.8                         | 5.4                         | 5.4   | 7.7                                    |
| E                                    | Case heater                   | kW         | 0.035                       | 0.035   | 0.045                       | 0.035                       | 0.035   | 0.045                                  |
| External finish                      |                               |            |                             | bated galvanized steel                        |                             |                             | bated galvanized steel                        |  |
|                                      |                               |            | (+p                         | owder coating for -BS<br>UNSELL 5Y 8/1 or sim | type)                       |                             | owder coating for -BS<br>UNSELL 5Y 8/1 or sim |  |
| External dimensio                    | - 11-346-0                    |            |                             |   |                             |                             | 1   |  |
| External dimensio                    |                               | mm         | 1,710(1,650 without         | 1,710(1,650 without                           |                             |                             | 1,710(1,650 without                           |  |
|                                      |                               |            | legs) x 920 x 760           | legs) x 920 x 760                             | legs) x 1,220 x 760         | legs) x 920 x 760           | legs) x 920 x 760                             | legs) x 1,750 x 760                    |
|                                      |                               | in.        | 67-3/8(65 without legs)     | 67-3/8(65 without legs)                       | 67-3/8(65 without legs)     |                             | 67-3/8(65 without legs)                       |  |
| Destantion                           | Litele and a second and       |            | x 36-1/4 x 29-15/16         | x 36-1/4 x 29-15/16                           | x 48-1/16 x 29-15/16        | x 36-1/4 x 29-15/16         | x 36-1/4 x 29-15/16                           | x 68-15/16 x 29-15/1                   |
| Protection                           | High pressure pr              | orection   |                             | r, High pressure switch                       |                             |                             | r, High pressure switch                       |  |
| devices                              | Inverter circuit<br>Fan motor |            |                             | Over-current protection                       |                             |                             | Over-current protection                       |  |
|                                      |                               | orao       | Thermal switch              | Thermal switch                                | Thermal switch              | Thermal switch              | Thermal switch                                | Thermal switch                         |
| Refrigerant<br>Net weight            | Trype x original cr           |            | R410A x 8.0kg (18lbs)       | R410A x 8.0kg (18lbs)                         |                             |                             | R410A x 8.0kg (18lbs)                         |  |
| Net weight<br>Heat exchanger         |                               | kg (lbs)   | 200(441)                    | 200(441)                                      | 250(552)                    | 200(441)                    | 200(441)                                      | 290(640)                               |
|                                      | Liquid pipe                   | mana (ir.) |                             | sistant cross fin & copp                      |                             |                             | sistant cross fin & copp                      |  |
| Pipe between unit<br>and distributor |                               | mm (in.)   | 9.52(3/8) Brazed            | 9.52(3/8) Brazed                              | 9.52(3/8) Brazed            | 9.52(3/8) Brazed            | 9.52(3/8) Brazed                              | 12.7(1/2) Brazed                       |
|                                      | Gas pipe                      | mm (in.)   |                             | 19.05(3/4) Brazed                             | 22.2(7/8) Brazed            | 19.05(3/4) Brazed           | 19.05(3/4) Brazed                             | 22.2(7/8) Brazed                       |
| Optional parts                       |                               |            |                             | r Twinning kit: CMY-Y3                        |                             |                             | r Twinning kit: CMY-Y3                        |  |
|                                      |                               |            |                             | 102SS/LS-G2, CMY-Y2                           |                             |                             | 102SS/LS-G2, CMY-Y2                           |  |
|                                      |                               |            | Hea                         | der: CMY-Y104/108/10                          | 110-G                       | Hea                         | der: CMY-Y104/108/10                          | 110-G                                  |

#### Notes:

| *1, | *2 Nominal conditions |                                      |                                |                   |                  |  |  |  |  |  |  |  |
|-----|-----------------------|--------------------------------------|--------------------------------|-------------------|------------------|--|--|--|--|--|--|--|
|     |                       | Indoor                               | Outdoor                        | Pipe length       | Level difference |  |  |  |  |  |  |  |
|     | Cooling               | 27°C DB/19°C WB<br>(81°F DB/66°F WB) | 35°C DB(95°F DB)               | 7.5m (24-9/16ft.) | 0m (0ft.)        |  |  |  |  |  |  |  |
|     | Heating               | 20°C DB(68°F DB)                     | 7°C DB/6°C WB(45°F DB/43°F WB) | 7.5m (24-9/16ft.) | 0m (0ft.)        |  |  |  |  |  |  |  |
|     | -                     |                                      |                                |                   |                  |  |  |  |  |  |  |  |

\*3 External static pressure option is available (30Pa, 60Pa / 3.1mmH<sub>2</sub>O, 6.1mmH<sub>2</sub>O). \*Nominal condition \*1,\*2 are subject to JIS B8615-2. \*Due to continuing improvement, above specification may be subject to change without notice.

Page 59

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# OUTDOOR UNIT Y Series - High COP PUHY-EP YSJM-A(1) (-BS)



## ► Specifications

| Model                                 |   |            | PUHY-EP700YSJM-A1(-BS)              | PUHY-EP750YSJM-A(-BS)               |
|---------------------------------------|---|------------|-------------------------------------|-------------------------------------|
| Power source                          |   |            | 3-phase 4-wire 380-400-415V 50/60Hz | 3-phase 4-wire 380-400-415V 50/60Hz |
| Cooling capacity                      | *1  | kW         | 80.0                                | 85.0                                |
| (Nominal)                             | *1  | BTU / h    | 273,000                             | 290,000                             |
|                                       | Power input   | kW         | 19.41                               | 20.43                               |
|                                       | Current input   | A          | 32.7-31.1-30.0                      | 34.4-32.7-31.5                      |
|                                       | EER   | kW / kW    | 4.12                                | 4.16                                |
| Temp. range of                        | Indoor  | W.B.       | 15.0~24.0°C(59~75°F)                | 15.0~24.0°C(59~75°F)                |
| cooling                               | Outdoor   | D.B.       | -5.0~46.0°C(23~115°F)               | -5.0~46.0°C(23~115°F)               |
| Heating capacity                      | *2  | kW         | 88.0                                | 95.0                                |
| (Nominal)                             | *2  | BTU / h    | 300,300                             | 324,100                             |
|                                       | Power input   | kW         | 20.32                               | 21.93                               |
| C                                     | Current input   | A          | 34.3-32.5-31.4                      | 37.0-35.1-33.8                      |
|                                       | COP   | kW / kW    | 4.33                                | 4.33                                |
| Temp. range of                        | Indoor  | D.B.       | 15.0~27.0°C(59~81°F)                | 15.0~27.0°C(59~81°F)                |
| heating                               | Outdoor   | W.B.       | -20.0~15.5°C(-4~60°F)               | -20.0~15.5°C(-4~60°F)               |
| Indoor unit                           | Current input         A           EER         kW / kW           indoor         W.B.           Outdoor         D.B.           capacity         *2         kW           i)         *2         BTU / h           Power input         kW         Current input           Current input         A         COP           Current input         A         COP           Outdoor         D.B.         Outdoor           Indoor         D.B.         Outdoor           Outdoor         D.B.         Outdoor           Outdoor         D.B.         Outdoor           Model / Quantity         ressure level         dB <a>           ed in anechoic room)         dB <a></a></a> |            | 50~130 % of outdoor unit capacity   | 50~130 % of outdoor unit capacity   |
| connectable                           |   |            | P15~P250 / 1~50                     | P15~P250 / 1~50                     |
| Sound pressure le<br>(measured in ane |   | dB <a></a> | 64                                  | 64.5                                |
| Power pressure le<br>(measured in ane |   | dB <a></a> | 84                                  | 84.5                                |
| Refrigerant piping                    | Liquid pipe   | mm (in.)   | 19.05(3/4) Brazed                   | 19.05(3/4) Brazed                   |
| diameter                              | Gas pipe  | mm (in.)   | 34.93(1-3/8) Brazed                 | 34.93(1-3/8) Brazed                 |

| Model            | _                    |          | PUHY-<br>EP200YJM-A(-BS)                       | PUHY-<br>EP250YJM-A(-BS)   | PUHY-<br>EP250YJM-A(-BS)                        | PUHY-<br>EP200YJM-A(-BS)   | PUHY-<br>EP250YJM-A(-BS)                        | PUHY-<br>EP300YJM-A(-BS)                         |
|------------------|----------------------|----------|--|--|---|--|---|--|
| FAN              | Type x Quantity      |          | Propeller fan x 1                              | Propeller fan x 1  | Propeller fan x 1                               | Propeller fan x 1  | Propeller fan x 1                               | Propeller fan x 2                                |
|                  | Air flow rate        | m³/min   | 170  | 210  | 210   | 170  | 210   | 370  |
|                  |                      | L/s      | 2,833  | 3,500  | 3,500   | 2,833  | 3,500   | 6,167  |
|                  |                      | cfm      | 6,003  | 7,415  | 7,415   | 6,003  | 7,415   | 13,065   |
|                  | Driving mechanis     | sm       | Inverter                                       | -control, Direct-driven I  | by motor  | Inverter   | -control, Direct-driven                         | by motor   |
|                  | Motor output         | kW       | 0.46 x 1                                       | 0.46 x 1   | 0.46 x 1  | 0.46 x 1   | 0.46 x 1  | 0.46 x 2   |
| *                | 3 External static pr | ess.     | 0 Pa (0 mmH <sub>2</sub> O)                    | 0 Pa (0 mmH <sub>2</sub> O)  | 0 Pa (0 mmH <sub>2</sub> O)                     | 0 Pa (0 mmH <sub>2</sub> O)  | 0 Pa (0 mmH <sub>2</sub> O)                     | 0 Pa (0 mmH <sub>2</sub> O)                      |
| Compressor       | Type x Quantity      |          | Inverte  | er scroll hermetic comp  | oressor   | Invert   | er scroll hermetic comp                         | pressor  |
|                  | Starting method      |          | Inverter                                       | Inverter   | Inverter  | Inverter   | Inverter  | Inverter   |
|                  | Motor output         | kW       | 5.4  | 6.8  | 6.8   | 5.4  | 6.8   | 7.7  |
|                  | Case heater          | kW       | 0.035  | 0.045  | 0.045   | 0.035  | 0.045   | 0.045  |
| External finish  |                      |          | (+p  | oated galvanized steel<br>owder coating for -BS t<br>UNSELL 5Y 8/1 or simi | type)   | Pre-coated galvanized steel sheets<br>(+powder coating for -BS type)<br><munsell 1="" 5y="" 8="" or="" similar=""></munsell> |   |  |
| External dimensi | on HxWxD             | mm       | 1,710(1,650 without<br>legs) x 920 x 760       | 1,710(1,650 without legs) x 1,220 x 760                                    | 1,710(1,650 without legs) x 1,220 x 760         | 1,710(1,650 without<br>legs) x 920 x 760   | 1,710(1,650 without<br>legs) x 1,220 x 760      | 1,710(1,650 without<br>legs) x 1,750 x 760       |
|                  |                      | in.      | 67-3/8(65 without legs)<br>x 36-1/4 x 29-15/16 | 67-3/8(65 without legs)<br>x 48-1/16 x 29-15/16                            | 67-3/8(65 without legs)<br>x 48-1/16 x 29-15/16 | 67-3/8(65 without legs)<br>x 36-1/4 x 29-15/16   | 67-3/8(65 without legs)<br>x 48-1/16 x 29-15/16 | 67-3/8(65 without legs)<br>x 68-15/16 x 29-15/16 |
| Protection       | High pressure pr     | otection | High pressure senso                            | r, High pressure switch  | at 4.15MPa (601 psi)                            | High pressure senso  | r, High pressure switch                         | at 4.15MPa (601 psi)                             |
| devices          | Inverter circuit     |          |  | Over-current protection  | 1   |  | Over-current protection                         | ņ  |
|                  | Fan motor            |          | Thermal switch                                 | Thermal switch   | Thermal switch                                  | Thermal switch   | Thermal switch                                  | Thermal switch                                   |
| Refrigerant      | Type x original c    | harge    | R410A x 8.0kg (18lbs)                          | R410A x 11.5kg (26lbs)   | R410A x 11.5kg (26lbs)                          | R410A x 8.0kg (18lbs)  | R410A x 11.5kg (26lbs)                          | R410A x 11.8kg (27lbs)                           |
| Net weight       |                      | kg (lbs) | 200(441)                                       | 250(552)   | 250(552)  | 200(441)   | 250(552)  | 290(640)   |
| Heat exchanger   |                      |          | Salt-re:                                       | sistant cross fin & copp   | er tube   | Salt-re  | sistant cross fin & copp                        | per tube   |
| Pipe between un  |                      | mm (in.) | 9.52(3/8) Brazed                               | 9.52(3/8) Brazed   | 9.52(3/8) Brazed                                | 9.52(3/8) Brazed   | 9.52(3/8) Brazed                                | 12.7(1/2) Brazed                                 |
| and distributor  | Gas pipe             | mm (in.) | 19.05(3/4) Brazed                              | 22.2 (7/8) Brazed  | 22.2(7/8) Brazed                                | 19.05(3/4) Brazed  | 22.2(7/8) Brazed                                | 22.2(7/8) Brazed                                 |
| Optional parts   |                      |          | Joint: CMY-Y                                   | r Twinning kit: CMY-Y3<br>102SS/LS-G2, CMY-Y2<br>der: CMY-Y104/108/10      | 202S/302S-G2                                    | Outdoor Twinning kit: CMY-Y300VBK2<br>Joint: CMY-Y102SS/LS-G2, CMY-Y202S/302S-G2<br>Header: CMY-Y104/108/1010-G              |   |  |

# OUTDOOR UNIT Y Series - High COP PUHY-EP YSJM-A(1) (-BS)



| Model                                   |                                 |            | PL  | HY-EP750YSJM-A1(-   | BS)   | PI   | JHY-EP800YSJM-A(-E                               | 3S)                         |
|---|---------------------------------|------------|---|---|---|--|--|-----------------------------|
| Power source                            |                                 |            |   | 4-wire 380-400-415V   |   |  | 4-wire 380-400-415V                              |                             |
| Cooling capacity                        | *1                              | kW         | 85.0  |   | o phaod   | 90.0   | 00,00112   |                             |
| (Nominal)                               | *1                              | BTU / h    |   | 290.000   |   | 307.100  |  |                             |
|   | Power input                     | kW         |   | 20.93   |   | 21.63  |  |                             |
|   | Current input                   | A          | 35.3-33.5-32.3                                  |   |   |  | 36.5-34.6-33.4                                   |                             |
|   | EER                             | kW / kW    |   | 4.06  |   |  | 4.16   |                             |
| Temp. range of                          | Indoor                          | W.B.       |   | 15.0~24.0°C(59~75°F   | )   |  | 15.0~24.0°C(59~75°F                              | )                           |
| cooling                                 | Outdoor                         | D.B.       |   | -5.0~46.0°C(23~115°F  |   |  | -5.0~46.0°C(23~115°F                             |                             |
| Heating capacity                        | *2                              | kW         |   | 95.0  |   |  | 100.0  |                             |
| (Nominal)                               | *2                              | BTU / h    |   | 324,100   |   |  | 341,200  |                             |
| . ,                                     | Power input                     | kW         |   | 21.78   |   |  | 22.77  |                             |
|   | Current input                   | A          |   | 36.7-34.9-33.6  |   |  | 38.4-36.5-35.1                                   |                             |
|   | COP                             | kW / kW    |   | 4.36  |   |  | 4.39   |                             |
| Temp. range of                          | Indoor                          | D.B.       |   | 15.0~27.0°C(59~81°F   | )   |  | 15.0~27.0°C(59~81°F                              | )                           |
| heating                                 | Outdoor                         | W.B.       |   | -20.0~15.5°C(-4~60°F  | )   |  | -20.0~15.5°C(-4~60°F                             | )                           |
| Indoor unit                             | Total capacity                  |            | 50~13   | 30 % of outdoor unit ca   | apacity   | 50~13  | 30 % of outdoor unit ca                          | apacity                     |
| connectable                             | Model / Quantity                |            |   | P15~P250 / 1~50   |   |  | P15~P250 / 1~50                                  |                             |
| Sound pressure le                       |                                 | dB <a></a> |   | 65  |   |  | 65   |                             |
| (measured in aneo                       | choic room)                     | UD <a></a> |   | CO  |   |  | CO   |                             |
| Power pressure le<br>(measured in anec  |                                 | dB <a></a> |   | 85  |   |  | 85   |                             |
| Refrigerant piping Liquid pipe mm (in.) |                                 |            | 19.05(3/4) Brazed                               |   | 19.05(3/4) Brazed                               |  |  |                             |
| diameter Gas pipe mm (in.)              |                                 | mm (in.)   |   | 34.93(1-3/8) Brazed   |   |  | 34.93(1-3/8) Brazed                              |                             |
| Set Model                               |                                 |            |   |   |   |  |  |                             |
| Model                                   |                                 |            | PUHY-<br>EP250YJM-A(-BS)                        | PUHY-<br>EP250YJM-A(-BS)  | PUHY-<br>EP250YJM-A(-BS)                        | PUHY-<br>EP200YJM-A(-BS)   | PUHY-<br>EP300YJM-A(-BS)                         | PUHY-<br>EP300YJM-A(-BS)    |
| FAN                                     | Type x Quantity                 |            | Propeller fan x 1                               | Propeller fan x 1   | Propeller fan x 1                               | Propeller fan x 1  | Propeller fan x 2                                | Propeller fan x 2           |
|   | Air flow rate                   | m³/min     | 210   | 210   | 210   | 170  | 370  | 370                         |
|   |                                 | L/s        | 3,500   | 3,500   | 3,500   | 2,833  | 6,167  | 6,167                       |
|   |                                 | cfm        | 7,415   | 7,415   | 7,415   | 6,003  | 13,065   | 13,065                      |
|   | Driving mechanis                | sm         |   | -control, Direct-driven   |   |  | -control, Direct-driven                          |                             |
|   | Motor output kW                 |            | 0.46 x 1  | 0.46 x 1  | 0.46 x 1  | 0.46 x 1   | 0.46 x 2   | 0.46 x 2                    |
| *2                                      | External static pr              |            | 0 Pa (0 mmH <sub>2</sub> O)                     |   |   | 0 Pa (0 mmH <sub>2</sub> O)  | 0 Pa (0 mmH <sub>2</sub> O)                      |                             |
| Compressor                              |                                 | 633.       | ()  | 0 Pa (0 mmH <sub>2</sub> O)   | 0 Pa (0 mmH <sub>2</sub> O)                     |  |  | 0 Pa (0 mmH <sub>2</sub> O) |
| Compressor                              | Type x Quantity                 |            |   | er scroll hermetic comp   |   |  | er scroll hermetic comp                          |                             |
|   | Starting method<br>Motor output | 1.3.67     | Inverter  | Inverter  | Inverter  | Inverter   | Inverter   | Inverter                    |
|   | Case heater                     | kW<br>kW   | 6.8<br>0.045                                    | 6.8<br>0.045  | 6.8   | 5.4<br>0.035   | 7.7  | 7.7                         |
| External finish                         | Case Healer                     | KVV        |   |   | 0.045   |  |  |                             |
|   |                                 |            | (+p   | oated galvanized steel<br>owder coating for -BS<br>UNSELL 5Y 8/1 or sim | type)   | Pre-coated galvanized steel sheets<br>(+powder coating for -BS type)<br><munsell 1="" 5y="" 8="" or="" similar=""></munsell> |  |                             |
| External dimension                      | n HxWxD                         |            | 1,710(1,650 without                             | 1,710(1,650 without   | 1,710(1,650 without                             | 1,710(1,650 without  | 1,710(1,650 without                              | 1,710(1,650 without         |
|   |                                 | mm         | legs) x 1,220 x 760                             | legs) x 1,220 x 760   | legs) x 1,220 x 760                             | legs) x 920 x 760  | legs) x 1,750 x 760                              | legs) x 1,750 x 760         |
|   |                                 | in.        | 67-3/8(65 without legs)<br>x 48-1/16 x 29-15/16 | 67-3/8(65 without legs)<br>x 48-1/16 x 29-15/16                         | 67-3/8(65 without legs)<br>x 48-1/16 x 29-15/16 | 67-3/8(65 without legs)<br>x 36-1/4 x 29-15/16   | 67-3/8(65 without legs)<br>x 68-15/16 x 29-15/16 |                             |
| Protection                              | High pressure pr                | otection   |   |   | at 4.15MPa (601 psi)                            |  | r, High pressure switch                          |                             |
| devices                                 | Inverter circuit                |            |   | Over-current protection   |   |  | Over-current protection                          |                             |
| Fan motor                               |                                 |            | Thermal switch                                  | Thermal switch  | Thermal switch                                  | Thermal switch   | Thermal switch                                   | Thermal switch              |
| Refrigerant Type x original charge      |                                 | harge      |   |   | R410A x 11.5kg (26lbs)                          |  | R410A x 11.8kg (27lbs)                           |                             |
| Net weight kg (lbs)                     |                                 | 250(552)   | 250(552)  | 250(552)  | 200(441)  | 290(640)   | 290(640)   |                             |
|   |                                 | ry (ibs)   |   |   |   |  |  |                             |
| Net weight<br>Heat exchanger            |                                 | rg (105)   |   | sistant cross fin & copp  | per tube  | Salt-re  | sistant cross fin & copp                         | ber tube                    |
|   | Liquid pipe                     | mm (in.)   |   | sistant cross fin & copp<br>9.52(3/8) Brazed                            | 9.52(3/8) Brazed                                | 9.52(3/8) Brazed   | sistant cross fin & copp<br>12.7(1/2) Brazed     | 12.7(1/2) Brazed            |
| Heat exchanger                          | Liquid pipe<br>Gas pipe         |            | Salt-re<br>9.52(3/8) Brazed                     |   |   |  |  |                             |

#### Notes:

\*1,\*2 Nominal conditions

|         | Indoor                               | Outdoor                        | Pipe length       | Level difference |
|---------|--------------------------------------|--------------------------------|-------------------|------------------|
| Cooling | 27°C DB/19°C WB<br>(81°F DB/66°F WB) | 35°C DB(95°F DB)               | 7.5m (24-9/16ft.) | 0m (0ft.)        |
| Heating | 20°C DB(68°F DB)                     | 7°C DB/6°C WB(45°F DB/43°F WB) | 7.5m (24-9/16ft.) | 0m (0ft.)        |

\*3 External static pressure option is available (30Pa, 60Pa / 3.1mmH<sub>2</sub>O, 6.1mmH<sub>2</sub>O). \*Nominal condition \*1,\*2 are subject to JIS B8615-2. \*Due to continuing improvement, above specification may be subject to change without notice.



Notes:

| *2 Nominal conditio | ns                                   |                                |                   |                  |
|---------------------|--------------------------------------|--------------------------------|-------------------|------------------|
|                     | Indoor                               | Outdoor                        | Pipe length       | Level difference |
| Cooling             | 27°C DB/19°C WB<br>(81°F DB/66°F WB) | 35°C DB(95°F DB)               | 7.5m (24-9/16ft.) | 0m (0ft.)        |
| Heating             | 20°C DB(68°F DB)                     | 7°C DB/6°C WB(45°F DB/43°F WB) | 7.5m (24-9/16ft.) | 0m (0ft.)        |
|                     |                                      |                                |                   |                  |

\*3 External static pressure option is available (30Pa, 60Pa / 3.1mmH<sub>2</sub>O, 6.1mmH<sub>2</sub>O). \*Nominal condition \*1,\*2 are subject to JIS B8615-2. \*Due to continuing improvement, above specification may be subject to change without notice.

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## OUTDOOR UNIT Y Series - High COP PUHY-EP YSJM-A(1) (-BS)

## ► Specifications

| Model                                  |                   |            | PU   | JHY-EP800YSJM-A1(-                | BS)                      | PI                                       | UHY-EP850YSJM-A(-I       | BS)                      |  |
|--|-------------------|------------|--|-----------------------------------|--------------------------|--|--------------------------|--------------------------|--|
| Power source                           |                   |            | 3-phase  | e 4-wire 380-400-415V             | 50/60Hz                  | 3-phase 4-wire 380-400-415V 50/60Hz      |                          |                          |  |
| Cooling capacity                       | *1                | kW         |  | 90.0                              |                          | 96.0                                     |                          |                          |  |
| (Nominal)                              | *1                | BTU / h    |  | 307,100                           |                          |  | 327,600                  |                          |  |
|  | Power input       | kW         | 22.16  |                                   |                          | 23.58                                    |                          |                          |  |
|  | Current input     | Α          |  | 37.4-35.5-34.2                    |                          |  | 39.8-37.8-36.4           |                          |  |
|  | EER               | kW / kW    |  | 4.06                              |                          |  | 4.07                     |                          |  |
| Temp. range of                         | Indoor            | W.B.       |  | 15.0~24.0°C(59~75°F               | )                        |  | 15.0~24.0°C(59~75°F      | )                        |  |
| cooling                                | Outdoor           | D.B.       |  | -5.0~46.0°C(23~115°F              | -)                       |  | -5.0~46.0°C(23~115°F     | -)                       |  |
| Heating capacity                       | *2                | kW         |  | 100.0                             |                          |  | 108.0                    |                          |  |
| (Nominal)                              | *2                | BTU / h    |  | 341,200                           |                          |  | 368,500                  |                          |  |
|  | Power input       | kW         |  | 22.98                             |                          |  | 24.65                    |                          |  |
|  | Current input     | Α          |  | 38.7-36.8-35.5                    |                          |  | 41.6-39.5-38.1           |                          |  |
|  | COP               | kW / kW    |  | 4.35                              |                          |  | 4.38                     |                          |  |
| Temp. range of                         | Indoor            | D.B.       |  | 15.0~27.0°C(59~81°F               | )                        | 15.0~27.0°C(59~81°F)                     |                          |                          |  |
| heating                                | Outdoor           | W.B.       |  | -20.0~15.5°C(-4~60°F              | -)<br>-                  |  | -20.0~15.5°C(-4~60°F     | C(-4~60°F)               |  |
| Indoor unit                            | Total capacity    |            | 50~13  | 50~130 % of outdoor unit capacity |                          | 50~130 % of outdoor unit capacity        |                          |                          |  |
| connectable                            | Model / Quantity  |            | P15~P250 / 1~50  |                                   |                          |  | P15~P250 / 1~50          |                          |  |
| Sound pressure le<br>(measured in aneo |                   | dB <a></a> | 65   |                                   |                          |  | 65.5                     |                          |  |
| Power pressure le<br>(measured in anec |                   | dB <a></a> |  | 85                                |                          |  | 85.5                     |                          |  |
| Refrigerant piping                     | Liquid pipe       | mm (in.)   |  | 19.05(3/4) Brazed                 |                          |  | 19.05(3/4) Brazed        |                          |  |
| diameter                               | Gas pipe          | mm (in.)   |  | 34.93(1-3/8) Brazed               |                          |  | 41.28(1-5/8) Brazed      |                          |  |
| Set Model                              |                   |            |  |                                   |                          |  |                          |                          |  |
| Model                                  |                   |            |  | PUHY-<br>EP250YJM-A(-BS)          | PUHY-<br>EP300YJM-A(-BS) | PUHY-<br>EP250YJM-A(-BS)                 | PUHY-<br>EP300YJM-A(-BS) | PUHY-<br>EP300YJM-A(-BS) |  |
| FAN                                    | Type x Quantity   |            | Propeller fan x 1  | Propeller fan x 1                 | Propeller fan x 2        | Propeller fan x 1                        | Propeller fan x 2        | Propeller fan x 2        |  |
|  | Air flow rate     | m³/min     | 210  | 210                               | 370                      | 210                                      | 370                      | 370                      |  |
|  |                   | L/s        | 3,500  | 3,500                             | 6,167                    | 3,500                                    | 6,167                    | 6,167                    |  |
|  |                   | cfm        | 7,415  | 7,415                             | 13,065                   | 7,415                                    | 13.065                   | 13.065                   |  |
|  | Driving mechanism |            | 7,415 7,415 13,065<br>Inverter-control. Direct-driven by motor |                                   |                          | Inverter-control. Direct-driven by motor |                          |                          |  |

|                    |                    | L/s      | 3,500   | 3,500                       | 6,167                       | 3,500  | 6,167                       | 6,167                       |
|--------------------|--------------------|----------|---|-----------------------------|-----------------------------|--|-----------------------------|-----------------------------|
|                    |                    | cfm      | 7,415   | 7,415                       | 13,065                      | 7,415  | 13,065                      | 13,065                      |
|                    | Driving mechanis   | sm       | Inverter-control, Direct-driven by motor  |                             |                             | Inverter-control, Direct-driven by motor             |                             |                             |
|                    | Motor output       | kW       | 0.46 x 1  | 0.46 x 1                    | 0.46 x 2                    | 0.46 x 1   | 0.46 x 2                    | 0.46 x 2                    |
| *3                 | External static pr | ess.     | 0 Pa (0 mmH <sub>2</sub> O)   | 0 Pa (0 mmH <sub>2</sub> O) | 0 Pa (0 mmH <sub>2</sub> O) | 0 Pa (0 mmH <sub>2</sub> O)                          | 0 Pa (0 mmH <sub>2</sub> O) | 0 Pa (0 mmH <sub>2</sub> O) |
| Compressor         | Type x Quantity    |          | Inverte   | er scroll hermetic comp     | pressor                     | Inverte  | er scroll hermetic comp     | pressor                     |
|                    | Starting method    |          | Inverter  | Inverter                    | Inverter                    | Inverter   | Inverter                    | Inverter                    |
|                    | Motor output       | kW       | 6.8   | 6.8                         | 7.7                         | 6.8  | 7.7                         | 7.7                         |
|                    | Case heater        | kW       | 0.045   | 0.045                       | 0.045                       | 0.045  | 0.045                       | 0.045                       |
| External finish    |                    |          | Pre-co  | ated galvanized steel       | sheets                      | Pre-co   | bated galvanized steel      | sheets                      |
|                    |                    |          |   | owder coating for -BS t     |                             |  | owder coating for -BS f     |                             |
|                    |                    |          | <mi< td=""><td>JNSELL 5Y 8/1 or simi</td><td>ilar&gt;</td><td colspan="2"><munsell 1="" 5y="" 8="" or="" similar=""></munsell></td></mi<> | JNSELL 5Y 8/1 or simi       | ilar>                       | <munsell 1="" 5y="" 8="" or="" similar=""></munsell> |                             |                             |
| External dimension | n HxWxD            | mm       | 1,710(1,650 without   | 1,710(1,650 without         | 1,710(1,650 without         | 1,710(1,650 without                                  | 1,710(1,650 without         | 1,710(1,650 without         |
|                    |                    |          | legs) x 1,220 x 760   | legs) x 1,220 x 760         | legs) x 1,750 x 760         | legs) x 1,220 x 760                                  | legs) x 1,750 x 760         | legs) x 1,750 x 760         |
|                    |                    | in.      | 67-3/8(65 without legs)   |                             | 67-3/8(65 without legs)     | 67-3/8(65 without legs)                              | 67-3/8(65 without legs)     | 67-3/8(65 without legs)     |
|                    |                    |          | x 48-1/16 x 29-15/16  | x 48-1/16 x 29-15/16        | x 68-15/16 x 29-15/16       | x 48-1/16 x 29-15/16                                 | x 68-15/16 x 29-15/16       | x 68-15/16 x 29-15/16       |
| Protection         | High pressure pr   | otection | High pressure sensor  | ; High pressure switch      | at 4.15MPa (601 psi)        | High pressure sensor                                 | r, High pressure switch     | at 4.15MPa (601 psi)        |
| devices            | Inverter circuit   |          |   | Over-current protection     | ņ.                          | Over-current protection                              |                             |                             |
|                    | Fan motor          |          | Thermal switch  | Thermal switch              | Thermal switch              | Thermal switch                                       | Thermal switch              | Thermal switch              |
| Refrigerant        | Type x original ch | harge    | R410A x 11.5kg (26lbs)  | R410A x 11.5kg (26lbs)      | R410A x 11.8kg (27lbs)      | R410A x 11.5kg (26lbs)                               | R410A x 11.8kg (27lbs)      | R410A x 11.8kg (27lbs)      |
| Net weight         |                    | kg (lbs) | 250(552)  | 250(552)                    | 290(640)                    | 250(552)   | 290(640)                    | 290(640)                    |
| Heat exchanger     |                    |          | Salt-res  | sistant cross fin & copp    | per tube                    | Salt-res   | sistant cross fin & copp    | per tube                    |
| Pipe between unit  | Liquid pipe        | mm (in.) | 9.52(3/8) Brazed  | 9.52(3/8) Brazed            | 12.7(1/2) Brazed            | 9.52(3/8) Brazed                                     | 12.7(1/2) Brazed            | 12.7(1/2) Brazed            |
| and distributor    | Gas pipe           | mm (in.) | 22.2(7/8) Brazed  | 22.2(7/8) Brazed            | 22.2(7/8) Brazed            | 22.2(7/8) Brazed                                     | 22.2(7/8) Brazed            | 22.2(7/8) Brazed            |
| Optional parts     |                    |          | Outdoor   | Twinning kit: CMY-Y3        | 00VBK2                      | Outdoor Twinning kit: CMY-Y300VBK2                   |                             |                             |
|                    |                    |          | Joint: CMY-Y1   | 02SS/LS-G2, CMY-Y2          | 202S/302S-G2                | Joint: CMY-Y1  | 102SS/LS-G2, CMY-Y2         | 202S/302S-G2                |
|                    |                    |          | Head  | der: CMY-Y104/108/10        | 10-G                        | Head   | der: CMY-Y104/108/10        | 10-G                        |

### **OUTDOOR UNIT** Y Series - High COP PUHY-EP YSJM-A(-BS)

#### ► Specifications

| Model                                 |                       |   | PUHY-EP900YSJM-A(-BS)                         |   |   |  |  |  |
|---------------------------------------|-----------------------|---|---|---|---|--|--|--|
| Power source                          |                       |   | 3-phase 4-wire 380-400-415V 50/60Hz           |   |   |  |  |  |
| Cooling capacity *1 kW                |                       |   | 101.0   |   |   |  |  |  |
| (Nominal)                             |                       | BTU / h                                       |   | 344,600   |   |  |  |  |
|                                       | Power input           | kW  |   | 24.81   |   |  |  |  |
|                                       | Current input         | A   |   | 41.8-39.7-38.3  |   |  |  |  |
|                                       | EER                   | kW / kW                                       |   | 4.07  |   |  |  |  |
| Temp. range of                        | Indoor                | W.B.  |   | 15.0~24.0°C(59~75°F)  |   |  |  |  |
| cooling                               | Outdoor               | D.B.  |   | -5.0~46.0°C(23~115°F)   |   |  |  |  |
| Heating capacity                      | *2                    |   |   | 113.0   |   |  |  |  |
| (Nominal)                             |                       | BTU / h                                       |   | 385,600   |   |  |  |  |
|                                       | Power input           | kW  |   | 25.50   |   |  |  |  |
|                                       | Current input<br>COP  | A   |   | 43.0-40.8-39.4  |   |  |  |  |
| <b>T</b>                              |                       | kW / kW                                       |   | 4.43  |   |  |  |  |
| Temp. range of                        | Indoor<br>Outdoor     | D.B.  |   | 15.0~27.0°C(59~81°F)  |   |  |  |  |
| heating<br>Indoor unit                | Total capacity        | W.B.  |   | -20.0~15.5°C(-4~60°F)   |   |  |  |  |
| connectable                           | Model / Quantity      |   |   | 50~130 % of outdoor unit capacity   |   |  |  |  |
| Sound pressure le                     |                       |   |   | P15~P250 / 1~50   |   |  |  |  |
| (measured in ane                      | choic room)           | dB <a></a>                                    |   | 66  |   |  |  |  |
| Power pressure le<br>(measured in ane | choic room)           | dB <a></a>                                    |   | 86  |   |  |  |  |
| Refrigerant piping                    |                       | mm (in.)                                      |   | 19.05(3/4) Brazed   |   |  |  |  |
| diameter                              | Gas pipe              | mm (in.)                                      |   | 41.28(1-5/8) Brazed   |   |  |  |  |
| Set Model                             |                       |   |   |   |   |  |  |  |
| Model                                 | -                     |   | PUHY-EP300YJM-A(-BS)                          | PUHY-EP300YJM-A(-BS)  | PUHY-EP300YJM-A(-BS)                          |  |  |  |
| FAN                                   | Type x Quantity       |   | Propeller fan x 2                             | Propeller fan x 2   | Propeller fan x 2                             |  |  |  |
|                                       | Air flow rate         | m³/min  | 370   | 370   | 370   |  |  |  |
|                                       |                       | L/s   | 6,167   | 6,167   | 6,167   |  |  |  |
|                                       | Dair da anna ab a air | cfm   | 13,065  | 13,065  | 13,065  |  |  |  |
|                                       | Driving mechanis      |   |   | Inverter-control, Direct-driven by motor  |   |  |  |  |
|                                       | Motor output          | kW  | 0.46 x 2                                      | 0.46 x 2  | 0.46 x 2                                      |  |  |  |
| *3                                    | External static pr    | ess.  | 0 Pa (0 mmH <sub>2</sub> O)                   | 0 Pa (0 mmH <sub>2</sub> O)   | 0 Pa (0 mmH <sub>2</sub> O)                   |  |  |  |
| Compressor                            | Type x Quantity       |   |   | Inverter scroll hermetic compressor   |   |  |  |  |
|                                       | Starting method       |   | Inverter                                      | Inverter  | Inverter                                      |  |  |  |
|                                       | Motor output          | kW  | 7.7   | 7.7   | 7.7   |  |  |  |
|                                       | Case heater           | kW  | 0.045   | 0.045   | 0.045   |  |  |  |
| External finish                       |                       |   | Pre-coated                                    | d galvanized steel sheets (+powder coating fo<br><munsell 1="" 5y="" 8="" or="" similar=""></munsell>       | or -BS type)                                  |  |  |  |
| External dimensio                     | n HxWxD               | mm  | 1,710(1,650 without legs) x 1,750 x 760       | 1,710(1,650 without legs) x 1,750 x 760   | 1,710(1,650 without legs) x 1,750 x 760       |  |  |  |
|                                       |                       | in.   | 67-3/8(65 without legs) x 68-15/16 x 29-15/16 | 67-3/8(65 without legs) x 68-15/16 x 29-15/16   | 67-3/8(65 without legs) x 68-15/16 x 29-15/16 |  |  |  |
| Protection                            | High pressure pr      | otection                                      | High pres                                     | sure sensor, High pressure switch at 4.15MP   | a (601 psi)                                   |  |  |  |
| devices Inverter circuit              |                       |   |   | Over-current protection   |   |  |  |  |
| Fan motor                             |                       | Thermal switch                                | Thermal switch                                | Thermal switch  |   |  |  |  |
| Refrigerant Type x original charge    |                       | R410A x 11.8kg (27lbs) R410A x 11.8kg (27lbs) |   | R410A x 11.8kg (27lbs)  |   |  |  |  |
| Net weight                            |                       | kg (lbs)                                      | 290(640)                                      | 290(640)  | 290(640)                                      |  |  |  |
| Heat exchanger                        |                       |   |   | Salt-resistant cross fin & copper tube  |   |  |  |  |
| Pipe between unit                     |                       | mm (in.)                                      | 12.7(1/2) Brazed                              | 12.7(1/2) Brazed  | 12.7(1/2) Brazed                              |  |  |  |
| and distributor                       | Gas pipe              | mm (in.)                                      | 22.2(7/8) Brazed                              | 22.2(7/8) Brazed  | 22.2(7/8) Brazed                              |  |  |  |
| Optional parts                        |                       |   | oL  | Outdoor Twinning kit: CMY-Y300VBK2<br>int: CMY-Y102SS/LS-G2, CMY-Y202S/302S-<br>Header: CMY-Y104/108/1010-G | G2  |  |  |  |

#### Notes:

\*1,\*2 Nominal conditions

| ,       |                                      |                                |                   |                  |
|---------|--------------------------------------|--------------------------------|-------------------|------------------|
|         | Indoor                               | Outdoor                        | Pipe length       | Level difference |
| Cooling | 27°C DB/19°C WB<br>(81°F DB/66°F WB) | 35°C DB(95°F DB)               | 7.5m (24-9/16ft.) | 0m (0ft.)        |
| Heating | 20°C DB(68°F DB)                     | 7°C DB/6°C WB(45°F DB/43°F WB) | 7.5m (24-9/16ft.) | 0m (0ft.)        |

\*3 External static pressure option is available (30Pa, 60Pa / 3.1mmH<sub>2</sub>O, 6.1mmH<sub>2</sub>O). \*Nominal condition \*1,\*2 are subject to JIS B8615-2. \*Due to continuing improvement, above specification may be subject to change without notice.



#### Notes:

| Nominal condition | IS                                   |  |  |   |
|-------------------|--------------------------------------|--|--|---|
|                   | Indoor                               | Outdoor                                      | Pipe length  | Level difference  |
| Cooling           | 27°C DB/19°C WB<br>(81°F DB/66°F WB) | 35°C DB(95°F DB)                             | 7.5m (24-9/16ft.)  | 0m (0ft.)   |
| Heating           | 20°C DB(68°F DB)                     | 7°C DB/6°C WB(45°F DB/43°F WB)               | 7.5m (24-9/16ft.)  | 0m (0ft.)   |
|                   | Cooling                              | Cooling 27°C DB/19°C WB<br>(81°F DB/66°F WB) | Indoor         Outdoor           Cooling         27°C DB/19°C WB<br>(81°F DB/66°F WB)         35°C DB(95°F DB) | Indoor         Outdoor         Pipe length           Cooling         27°C DB/19°C WB<br>(81°F DB/66°F WB)         35°C DB(95°F DB)         7.5m (24-9/16fL) |

\*3 External static pressure option is available (30Pa, 60Pa / 3.1mmH<sub>2</sub>O, 6.1mmH<sub>2</sub>O). \*Nominal condition \*1,\*2 are subject to JIS B8615-2. \*Due to continuing improvement, above specification may be subject to change without notice.

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|   |            | dan series |  |



#### **HEAT SOURCE UNIT** WY (Heat Pump) Series PQHY-P YHM-A



#### ► Specifications

| Model                                 | Model                              |            | PQHY-P200YHM-A  | PQHY-P250YHM-A   | PQHY-P300YHM-A  |
|---------------------------------------|------------------------------------|------------|---|--|---|
| Power source                          |                                    |            | 3-phase 4-wire 380-400-415V 50/60Hz                             | 3-phase 4-wire 380-400-415V 50/60Hz                                | 3-phase 4-wire 380-400-415V 50/60Hz                               |
| Cooling capacity                      | *1                                 | kW         | 22.4  | 28.0   | 33.5  |
| (Nominal)                             | *1                                 | BTU / h    | 76,400  | 95,500   | 114,300   |
|                                       | Power input                        | kW         | 3.92  | 5.45   | 7.36  |
|                                       | Current input                      | A          | 6.6-6.2-6.0   | 9.2-8.7-8.4  | 12.4-11.8-11.3  |
|                                       | EER                                | kW / kW    | 5.71  | 5.13   | 4.55  |
| Temp. range of                        | Indoor                             | W.B.       | 15.0~24.0°C(59~75°F)  | 15.0~24.0°C(59~75°F)   | 15.0~24.0°C(59~75°F)  |
| cooling                               | Circulating water                  | °C         | 10.0~45.0°C(50~113°F)   | 10.0~45.0°C(50~113°F)  | 10.0~45.0°C(50~113°F)   |
| Heating capacity                      | *2                                 | kW         | 25.0  | 31.5   | 37.5  |
| (Nominal)                             | *2                                 | BTU / h    | 85,300  | 107,500  | 128,000   |
|                                       | Power input                        | kW         | 4.12  | 5.80   | 8.15  |
|                                       | Current input                      | A          | 6.9-6.6-6.3   | 9.7-9.3-8.9  | 13.7-13.0-12.5  |
|                                       | COP                                | kW / kW    | 6.06  | 5.43   | 4.60  |
| Temp. range of                        | Indoor                             | D.B.       | 15.0~27.0°C(59~81°F)  | 15.0~27.0°C(59~81°F)   | 15.0~27.0°C(59~81°F)  |
| heating                               | Circulating water                  | °C         | 10.0~45.0°C(50~113°F)   | 10.0~45.0°C(50~113°F)  | 10.0~45.0°C(50~113°F)   |
| Indoor unit                           | Total capacity                     |            | 50~130 % of heat source unit capacity                           | 50~130 % of heat source unit capacity                              | 50~130 % of heat source unit capacity                             |
| connectable                           | Model / Quantity                   |            | P15~P250 / 1~17   | P15~P250 / 1~21  | P15~P250 / 1~26   |
| Sound pressure le<br>(measured in ane |                                    | dB <a></a> | 47  | 49   | 50  |
| Refrigerant piping                    | Liquid pipe                        | mm (in.)   | 9.52(3/8) Brazed  | 9.52(3/8) Brazed (12.7(1/2) Brazed,total length >= 90m)            | 9.52(3/8) Brazed (12.7(1/2) Brazed,total length >= 40m)           |
| diameter [O.D.]                       | Gas pipe                           | mm (in.)   | 19.05(3/4) Brazed   | 22.2(7/8) Brazed   | 22.2(7/8) Brazed  |
| Circulating water                     | Water flow rate m <sup>3</sup> / h |            | 5.76  | 5.76   | 5.76  |
|                                       |                                    | L/min      | 96  | 96   | 96  |
|                                       |                                    | cfm        | 3.4   | 3.4  | 3.4   |
|                                       | Pressure drop                      | kPa        | 17  | 17   | 17  |
|                                       | Operating<br>volume range          | m³ / h     | 4.5 ~ 7.2   | 4.5 ~ 7.2  | 4.5 ~ 7.2   |
| Compressor                            | Type x Quantity                    |            | Inverter scroll hermetic compressor                             | Inverter scroll hermetic compressor                                | Inverter scroll hermetic compressor                               |
|                                       | Starting method                    |            | Inverter  | Inverter   | Inverter  |
|                                       | Motor output                       | kW         | 4.6   | 6.3  | 7.4   |
|                                       | Case heater                        | kW         | 0.035(240 V)  | 0.035(240 V)   | 0.035(240 V)  |
| External finish                       | *                                  |            | Acrylic painted steel plate                                     | Acrylic painted steel plate  | Acrylic painted steel plate                                       |
| External dimension                    | n HxWxD                            | mm         | 1,160(1,100 without legs) x 880 x 550                           | 1,160(1,100 without legs) x 880 x 550                              | 1,160(1,100 without legs) x 880 x 550                             |
|                                       |                                    | in.        | 45-11/16(43-5/16 without legs) x 34-11/16 x 21-11/16            | 45-11/16(43-5/16 without legs) x 34-11/16 x 21-11/16               | 45-11/16(43-5/16 without legs) x 34-11/16 x 21-11/16              |
| Protection                            | High pressure pro                  | otection   | High pressure sensor, High pressure switch at 4.15MPa (601 psi) | High pressure sensor, High pressure switch at 4.15MPa (601 psi)    | High pressure sensor, High pressure switch at 4.15MPa (601 psi)   |
| devices                               | Inverter circuit (C                | OMP.)      | Over-heat protection, Over-current protection                   | Over-heat protection, Over-current protection                      |   |
|                                       | Compressor                         |            | Over-heat protection  | Over-heat protection   | Over-heat protection  |
| Refrigerant                           | Type x original ch                 | narge      | R410A x 5.0kg (12lbs)   | R410A x 5.0kg (12lbs)  | R410A x 5.0kg (12lbs)   |
| Net weight                            |                                    | kg (lbs)   | 195(430)  | 195(430)   | 195(430)  |
| Heat exchanger                        |                                    |            | plate type  | plate type   | plate type  |
|                                       | Water volume in<br>plate           | L          | 5.0   | 5.0  | 5.0   |
|                                       | Water pressure<br>Max.             | MPa        | 2.0   | 2.0  | 2.0   |
| Optional parts                        |                                    |            | Joint: CMY-Y102SS-G2<br>Header: CMY-Y104/108/1010-G             | Joint: CMY-Y102SS-G2, CMY-Y102LS-G2<br>Header: CMY-Y104/108/1010-G | Joint: CMY-Y102SS-G2,CMY-Y102LS-G2<br>Header: CMY-Y104/108/1010-G |

Level difference 0m (0ft.)

#### **HEAT SOURCE UNIT** WY (Heat Pump) Series PQHY-P YSHM-A

#### ► Specifications

| Model                 |                          |                    | PQHY-P40                  | DOYSHM-A  | PQHY-P4                                  | 50YSHM-A  | PQHY-P50  | 00YSHM-A                |
|-----------------------|--------------------------|--------------------|---------------------------|---|--|---|---|-------------------------|
| Power source          |                          |                    | 3-phase 4-wire 380        | -400-415V 50/60Hz   | 3-phase 4-wire 380                       | -400-415V 50/60Hz   | 3-phase 4-wire 380  | -400-415V 50/60Hz       |
| Cooling capacity      | *1                       | kW                 | 45                        | 5.0   | 50                                       | 0.0   | . 56  | 6.0                     |
| (Nominal)             | *1                       | BTU / h            | 153                       | ,500  | 170                                      | ,600  | 191   | ,100                    |
| ,                     | Power input              | kW                 |                           | 25  |  | 84  |   | .45                     |
|                       | Current input            | A                  |                           | 3.2-12.7  | 16.6-15                                  | 5.7-15.2  | 19.3-18   | 3.3-17.6                |
|                       | EER                      | kW / kW            |                           | 45  | 5.                                       | 08  |   | 89                      |
| Temp. range of        | Indoor                   | W.B.               | 15.0~24.0°                | C(59~75°F)  | 15.0~24.0°                               | C(59~75°F)  | 15.0~24.0°  | C(59~75°F)              |
| cooling               | Circulating water        | °C                 | 10.0~45.0°0               |   |  | C(50~113°F)   |   | C(50~113°F)             |
| Heating capacity      | *2                       | -                  |                           | ).0   |  | 5.0   |   | 3.0                     |
| (Nominal)             |                          | BTU / h            |                           | .600  |  | .100  |   | ,000                    |
|                       | Power input              | kW                 | 8.65                      |   | 10                                       | .42   | 12  |                         |
|                       | Current input            | A                  |                           | 3.8-13.3  | 17.5-16                                  | 6.7-16.1  | 20.3-19   | .3-18.6                 |
|                       | COP                      | kW / kW            |                           | 78  |  | 37  |   | 22                      |
| Temp. range of        | Indoor                   | D.B.               |                           | C(59~81°F)  |  | C(59~81°F)  | 15.0~27.0°  |                         |
| heating               | Circulating water        | °C                 |                           | C(50~113°F)   |  | C(50~113°F)   |   | C(50~113°F)             |
| Indoor unit           | Total capacity           |                    |                           | source unit capacity  |  | source unit capacity  |   | source unit capacity    |
| connectable           | Model / Quantity         |                    |                           | 50 / 1~34   |  | 50 / 1~39   |   | 50 / 1~43               |
| Sound pressure le     |                          |                    |                           |   |  |   |   |                         |
| (measured in ane      |                          | dB <a></a>         | 5                         | 0   | 5  | 51  | 5   | 2                       |
| Refrigerant piping    | Liquid pipe              | mm (in.)           | 12.7(1/2                  | ) Brazed  | 15.88(5/8                                | <ol><li>Brazed</li></ol>  | 15.88(5/8   | 3) Brazed               |
| diameter [O.D.]       | Gas pipe                 | mm (in.)           | 28.58(1-1                 |   |  | /8) Brazed  | 28.58(1-1/8) Brazed   |                         |
| Set Model             |                          |                    |                           |   |  |   | · · ·   |                         |
| Model                 |                          |                    | PQHY-P200YHM-A            | PQHY-P200YHM-A  | PQHY-P250YHM-A                           | PQHY-P200YHM-A  | PQHY-P250YHM-A  | PQHY-P250YHM-A          |
| Circulating water     | Water flow rate          | m <sup>3</sup> / h | 5.76 -                    | + 5.76  | 5.76 -                                   | + 5.76  | 5.76 -  | + 5.76                  |
| Ŭ                     |                          | L/min              | 96 -                      | + 96  | 96 -                                     | + 96  | 96 -  | + 96                    |
|                       |                          | cfm                | 3.4 -                     | + 3.4   | 3.4 -                                    | + 3.4   | 3.4 -   | + 3.4                   |
|                       | Pressure drop            | kPa                | 17                        | 17  | 17                                       | 17  | 17  | 17                      |
|                       | Operating volume range   | m³ / h             | 4.5 + 4.5                 | ~ 7.2 + 7.2   | 4.5 + 4.5                                | ~ 7.2 + 7.2   | 4.5 + 4.5 -   | ~ 7.2 + 7.2             |
| Compressor            | Type x Quantity          |                    | Inverter scroll her       | metic compressor  | Inverter scroll her                      | metic compressor  | Inverter scroll her   | metic compressor        |
|                       | Starting method          |                    | Inverter                  | Inverter  | Inverter                                 | Inverter  | Inverter  | Inverter                |
|                       | Motor output             | kW                 | 4.6                       | 4.6   | 6.3                                      | 4.6   | 6.3   | 6.3                     |
|                       | Case heater              | kW                 | 0.035(240 V)              | 0.035(240 V)  | 0.035(240 V)                             | 0.035(240 V)  | 0.035(240 V)  | 0.035(240 V)            |
| External finish       |                          |                    |                           | ed steel plate  |  | ed steel plate  | Acrylic painte  |                         |
| External dimensio     | n HxWxD                  | mm                 |                           | 1,160(1,100 without<br>legs) x 880 x 550                          | 1,160(1,100 without<br>legs) x 880 x 550 |   | 1,160(1,100 without<br>legs) x 880 x 550                          |                         |
|                       |                          | in.                | 45-11/16(43-5/16 without  | 45-11/16(43-5/16 without  | 45-11/16(43-5/16 without                 | 45-11/16(43-5/16 without  | 45-11/16(43-5/16 without  | 45-11/16(43-5/16 withou |
| <b>D</b> <i>i i i</i> |                          |                    |                           | legs) x 34-11/16 x 21-11/16                                       |  | legs) x 34-11/16 x 21-11/16                                       |   |                         |
| Protection            | High pressure pro        |                    |                           | sure switch at 4.15MPa (601 psi)                                  |  | sure switch at 4.15MPa (601 psi)                                  | High pressure sensor, High pres                                   |                         |
| devices               | Inverter circuit (C      | OMP.)              |                           | Over-current protection   |  | Over-current protection   | Over-heat protection, (   |                         |
|                       | Compressor               |                    |                           | protection  |  | protection  | Over-heat   |                         |
| Refrigerant           | Type x original ch       |                    |                           |   |  | R410A x 5.0kg (12lbs)   |   |                         |
| Net weight            |                          | kg (lbs)           | 195(430)                  | 195(430)  | 195(430)                                 | 195(430)  | 195(430)  | 195(430)                |
| Heat exchanger        | 14/-1                    |                    | plate type                | plate type  | plate type                               | plate type  | plate type  | plate type              |
|                       | Water volume in<br>plate | L                  | 5.0                       | 5.0   | 5.0                                      | 5.0   | 5.0   | 5.0                     |
|                       | Water pressure<br>Max.   | MPa                | 2.0                       | 2.0   | 2.0                                      | 2.0   | 2.0   | 2.0                     |
| Optional parts        |                          |                    | Joint: CMY-Y102SS-G2, CMY | g kit: CMY-Y100VBK2<br>-Y102LS-G2, CMY-Y202S-G2<br>104/108/1010-G | Joint: CMY-Y102SS-G2, CMY                | g kit: CMY-Y100VBK2<br>-Y102LS-G2, CMY-Y202S-G2<br>104/108/1010-G | Heat Source Twinning<br>Joint: CMY-Y102SS-G2, CMY<br>Header:CMY-Y | -Y102LS-G2, CMY-Y202S-0 |

Notes:

| *1, | *2 Nominal conditio | ns                                       |                   |                   |
|-----|---------------------|--|-------------------|-------------------|
|     |                     | Indoor                                   | Water temperature | Pipe length       |
|     | Cooling             | 27°CD.B./19°CW.B.<br>(81°FD.B./66°FW.B.) | 30°C (86°F)       | 7.5m (24-9/16ft.) |

Heating 20°CD.B. (68°FD.B.) 20°C (68°F) \*3 The ambient temperature of the heat source unit needs to be kept below 40°CD.B.

3 The ambient temperature or the neat source unit needs to be kept below 40°-CU.B.
4 The ambient relative humidity of the heat source unit needs to be kept below 80%.
\*5 The heat source Unit should not be installed at outdoor.
\*6 Be sure to mount a strainer (more than 50 meshes) at the water inlet piping of the unit.
\*7 Be sure to provide interlocking for the unit operation and water circuit.
\*Nominal condition \*1,\*2 are subject to JIS B8615-1.
\*Due to continuing improvement, above specification may be subject to change without notice.

Outdoor unit



#### Notes: \*1,\*2 Nominal conditions

|         | Indoor                                   | Water temperature | Pipe    |
|---------|--|-------------------|---------|
| Cooling | 27°CD.B./19°CW.B.<br>(81°FD.B./66°FW.B.) | 30°C (86°F)       | 7.5m (2 |
| Heating | 20°CD.B. (68°FD.B.)                      | 20°C (68°F)       |         |
|         |  |                   |         |

\*3 The ambient temperature of the heat source unit needs to be kept below 40°CD.B.
\*4 The ambient relative humidity of the heat source unit needs to be kept below 80%.
\*5 The heat source Unit should not be installed at outdoor.
\*6 Be sure to mount a strainer (more than 50 meshes) at the water inlet piping of the unit.
\*7 Be sure to provide interlocking for the unit operation and water circuit.
\*Nominal condition \*1,\*2 are subject to JIS B8615-1.
\*Due to continuing improvement, above specification may be subject to change without notice.

| • |  |
|---|--|
| • |  |
|   |  |

| ipe length     | Level difference |
|----------------|------------------|
| n (24-9/16ft.) | Om (Oft.)        |



#### **HEAT SOURCE UNIT** WY (Heat Pump) Series PQHY-P YSHM-A



#### ► Specifications

| Model                                  |                           |                    | PQHY-P5   | 50YSHM-A                                 | PQHY-P600YSHM-A  |  |  |
|--|---------------------------|--------------------|---|--|--|--|--|
| Power source                           |                           |                    | 3-phase 4-wire 380  | -400-415V 50/60Hz                        | 3-phase 4-wire 380-400-415V 50/60Hz  |  |  |
| Cooling capacity                       | *1                        | kW                 | 63  | 3.0                                      | 69   | 9.0                                      |  |
| (Nominal)                              | *1                        | BTU / h            | 215   | ,000                                     | 235  | ,400                                     |  |
|  | Power input               | kW                 | 13  | .46                                      | 15   | .48                                      |  |
|  | Current input             | Α                  | 22.7-21   | 1.5-20.8                                 | 26.1-24.8-23.9   |  |  |
|  | EER                       | kW / kW            |   | 68                                       | 4.45   |  |  |
| Temp. range of                         | Indoor                    | W.B.               | 15.0~24.0°  | C(59~75°F)                               | 15.0~24.0°C(59~75°F)   |  |  |
| cooling                                | Circulating water         | °C                 | 10.0~45.0°0   | C(50~113°F)                              | 10.0~45.0°C(50~113°F)  |  |  |
| Heating capacity                       | *2                        |                    |   | 9.0                                      |  | 6.5                                      |  |
| (Nominal)                              |                           | BTU / h            |   | ,400                                     |  | ,000                                     |  |
|  | Power input               | kW                 |   | .65                                      |  | .12                                      |  |
|  | Current input             | A                  |   | 3.4-22.6                                 |  | 7.4-26.4                                 |  |
|  | COP                       | kW / kW            |   | 70                                       |  | 46                                       |  |
| Temp. range of                         | Indoor                    | D.B.               |   | C(59~81°F)                               | 15.0~27.0°   |  |  |
| heating                                | Circulating water         | °C                 |   | C(50~113°F)                              |  | C(50~113°F)                              |  |
| Indoor unit                            | Total capacity            |                    |   | source unit capacity                     |  | source unit capacity                     |  |
| connectable                            | Model / Quantity          |                    | P15~P2  | 50 / 2~47                                | P15~P2   | 50 / 2~50                                |  |
| Sound pressure le<br>(measured in anec |                           | dB <a></a>         | 52  | 2.5                                      | 5  | 3  |  |
| Refrigerant piping                     | Liquid pipe               | mm (in.)           | 15.88(5/8   | 3) Brazed                                | 15.88(5/8  | 3) Brazed                                |  |
| diameter [O.D.]                        | Gas pipe                  | mm (in.)           | 28.58(1-1   | /8) Brazed                               | 28.58(1-1  | /8) Brazed                               |  |
| Set Model                              |                           |                    |   |  |  |  |  |
| Model                                  | 1                         | 1                  | PQHY-P300YHM-A  | PQHY-P250YHM-A                           | PQHY-P300YHM-A   | PQHY-P300YHM-A                           |  |
| Circulating water                      | Water flow rate           | m <sup>3</sup> / h | 5.76 + 5.76   |  | 5.76 + 5.76  |  |  |
|  |                           | L/min              |   | + 96                                     | 96 + 96  |  |  |
|  |                           | cfm                |   | + 3.4                                    | 3.4 + 3.4  |  |  |
|  | Pressure drop             | kPa                | 17  | 17                                       | 17   | 17                                       |  |
|  | Operating<br>volume range | m³ / h             | 4.5 + 4.5   | ~ 7.2 + 7.2                              | 4.5 + 4.5 ~ 7.2 + 7.2  |  |  |
| Compressor                             | Type x Quantity           |                    | Inverter scroll hermetic compressor   |  | Inverter scroll hermetic compressor  |  |  |
|  | Starting method           |                    | Inverter Inverter   |  | Inverter   | Inverter                                 |  |
|  | Motor output              | kW                 | 7.4   | 6.3                                      | 7.4  | 7.4                                      |  |
|  | Case heater               | kW                 | 0.035(240 V)  | 0.035(240 V)                             | 0.035(240 V)   | 0.035(240 V)                             |  |
| External finish                        |                           | 1                  | Acrylic painted steel plate   | Acrylic painted steel plate              | Acrylic painted steel plate  | Acrylic painted steel plate              |  |
| External dimension                     | n HxWxD                   | mm                 | 1,160(1,100 without legs) x 880<br>x 550  | 1,160(1,100 without legs) x 880<br>x 550 | 1,160(1,100 without legs) x 880<br>x 550   | 1,160(1,100 without legs) x 880<br>x 550 |  |
|  |                           | in.                | 45-11/16(43-5/16 without legs) x  | 45-11/16(43-5/16 without legs) x         | 45-11/16(43-5/16 without legs) x   | 45-11/16(43-5/16 without legs) x         |  |
|  |                           | in.                | 34-11/16 x 21-11/16   | 34-11/16 x 21-11/16                      | 34-11/16 x 21-11/16  | 34-11/16 x 21-11/16                      |  |
| Protection                             | High pressure pro         | otection           | High pressure sensor, High pres   | sure switch at 4.15MPa (601 psi)         | High pressure sensor, High pressure switch at 4.15MPa (601 psi   |  |  |
| devices                                | Inverter circuit (C       | OMP.)              | Over-heat protection,   | Over-current protection                  | Over-heat protection, Over-current protection  |  |  |
|  | Compressor                |                    |   | protection                               | Over-heat protection   |  |  |
| Refrigerant                            | Type x original ch        | narge              | R410A x 5.0kg (12lbs)   | R410A x 5.0kg (12lbs)                    | R410A x 5.0kg (12lbs)  | R410A x 5.0kg (12lbs)                    |  |
| Net weight                             |                           | kg (lbs)           | 195(430)  | 195(430)                                 | 195(430)   | 195(430)                                 |  |
| Heat exchanger                         |                           |                    | plate type  | plate type                               | plate type   | plate type                               |  |
|  | Water volume in<br>plate  | L                  | 5.0   | 5.0                                      | 5.0  | 5.0                                      |  |
|  | Water pressure<br>Max.    | MPa                | 2.0   | 2.0                                      | 2.0  | 2.0                                      |  |
| Optional parts                         |                           |                    | Heat Source Twinning kit: CMY-Y100VBK2<br>Joint: CMY-Y102SS-G2, CMY-Y102LS-G2, CMY-Y202S-G2,CMY-Y302S-G2<br>Header: CMY-Y104/108/1010-G |  | Heat Source Twinning kit: CMY-Y100VBK2<br>Joint: CMY-Y102SS-G2, CMY-Y102LS-G2, CMY-Y202S-G2,CMY-Y302S-G2<br>Header:CMY-Y104/108/1010-G |  |  |
| L                                      |                           |                    | neauer:CMY-Y  | 104/100/1010-G                           | neader:CMY-Y   | 104/100/1010-G                           |  |

#### **HEAT SOURCE UNIT** WY (Heat Pump) Series PQHY-P YSHM-A

### ► Specifications

| Model              |                          |            |   | PQHY-P650YSHM-A                               |   |   | PQHY-P700YSHM-A             |   |
|--------------------|--------------------------|------------|---|---|---|---|-----------------------------|---|
| Power source       |                          |            | 3-phase   | 4-wire 380-400-415V                           | 50/60Hz                                       | 3-phase   | 4-wire 380-400-415V         | 50/60Hz                                       |
| Cooling capacity   | *1                       | kW         |   | 73.0  |   |   | 80.0                        |   |
| (Nominal)          | *1                       | BTU / h    |   | 249,100                                       |   | 273,000   |                             |   |
| ```                | Power input              | kW         | 13.96   |   |   |   | 15.58                       |   |
|                    | Current input            | Α          |   | 23.5-22.3-21.5                                |   |   | 26.3-24.9-24.0              |   |
|                    | EER                      | kW / kW    |   | 5.22  |   |   | 5.13                        |   |
| Temp. range of     | Indoor                   | W.B.       |   | 15.0~24.0°C(59~75°F)                          |   |   | 15.0~24.0°C(59~75°F)        |   |
| cooling            | Circulating water        | °C         |   | 10.0~45.0°C(50~113°F                          |   |   | 10.0~45.0°C(50~113°F        |   |
| Heating capacity   | *2                       | kW         |   | 81.5  | ,   |   | 88.0                        | ,   |
| (Nominal)          | *2                       | BTU / h    |   | 278.100                                       |   |   | 300.300                     |   |
|                    | Power input              | kW         |   | 14.74   |   |   | 16.51                       |   |
|                    | Current input            | Α          |   | 24.8-23.6-22.7                                |   |   | 27.8-26.4-25.5              |   |
|                    | COP                      | kW / kW    |   | 5.52  |   |   | 5.33                        |   |
| Temp. range of     | Indoor                   | D.B.       |   | 15.0~27.0°C(59~81°F)                          |   |   | 15.0~27.0°C(59~81°F         | )   |
| heating            | Circulating water        | °C         |   | 10.0~45.0°C(50~113°F                          |   |   | 10.0~45.0°C(50~113°F        |   |
| Indoor unit        | Total capacity           |            |   | % of heat source unit of                      |   |   | % of heat source unit       |   |
| connectable        | Model / Quantity         |            |   | P15~P250 / 2~50                               |   |   | P15~P250 / 2~50             |   |
| Sound pressure le  |                          |            |   |   |   |   |                             |   |
| (measured in ane   |                          | dB <a></a> |   | 53  |   |   | 53.5                        |   |
| Refrigerant piping | Liquid pipe              | mm (in.)   |   | 19.05(3/4) Brazed                             |   |   | 19.05(3/4) Brazed           |   |
|                    | Gas pipe                 | mm (in.)   |   | 34.93(1-3/8) Brazed                           |   |   | 34.93(1-3/8) Brazed         |   |
| Set Model          |                          |            | 1   |   |   |   |                             |   |
| Model              |                          |            | PQHY-P250YHM-A  | PQHY-P200YHM-A                                | PQHY-P200YHM-A                                | PQHY-P250YHM-A  | PQHY-P250YHM-A              | PQHY-P200YHM-A                                |
| Circulating water  | Water flow rate          | m³ / h     |   | 5.76 + 5.76 + 5.76                            |   |   | 5.76 + 5.76 + 5.76          |   |
| Ũ                  |                          | L/min      |   | 96 + 96 + 96                                  |   |   | 96 + 96 + 96                |   |
|                    |                          | cfm        |   | 3.4 + 3.4 + 3.4                               |   |   | 3.4 + 3.4 + 3.4             |   |
|                    | Pressure drop            | kPa        | 17  | 17  | 17  | 17  | 17                          | 17  |
|                    | Operating volume range   | m³ / h     | 4.5 + 4.5 + 4.5 ~ 7.2 + 7.2 + 7.2   |   |   | 4.5 + 4.5 + 4.5 ~ 7.2 + 7.2 + 7.2   |                             |   |
| Compressor         | Type x Quantity          |            | Inverter scroll hermetic compressor   |   | Invert  | er scroll hermetic comp   | ressor                      |   |
|                    | Starting method          |            | Inverter  | Inverter                                      | Inverter                                      | Inverter  | Inverter                    | Inverter                                      |
|                    | Motor output             | kW         | 6.3   | 4.6   | 4.6   | 6.3   | 6.3                         | 4.6   |
|                    | Case heater              | kW         | 0.035(240 V)  | 0.035(240 V)                                  | 0.035(240 V)                                  | 0.035(240 V)  | 0.035(240 V)                | 0.035(240 V)                                  |
| External finish    |                          |            |   | crylic painted steel plat                     |   |   | crylic painted steel pla    |   |
| External dimensio  | n HxWxD                  | mm         | 1,160(1,100 without   | 1,160(1,100 without                           | 1,160(1,100 without                           | 1,160(1,100 without   | 1,160(1,100 without         | 1,160(1,100 withou                            |
|                    |                          |            | legs) x 880 x 550<br>45-11/16(43-5/16 without   | legs) x 880 x 550<br>45-11/16(43-5/16 without | legs) x 880 x 550<br>45-11/16(43-5/16 without | legs) x 880 x 550<br>45-11/16(43-5/16 without   | legs) x 880 x 550           | legs) x 880 x 550<br>45-11/16(43-5/16 without |
|                    |                          | in.        |   |   |   |   | 45-11/16(43-5/16 without    |   |
| Protection         | Llinh processo pr        | stantion   |   | legs) x 34-11/16 x 21-11/16                   |   |   | legs) x 34-11/16 x 21-11/16 |   |
| devices            | High pressure pro        |            |   | , High pressure switch                        |   | High pressure sensor, High pressure switch at 4.15MPa (601 pr<br>Over-heat protection, Over-current protection                        |                             |   |
| devices            | Inverter circuit (C      | OMP.)      | Over-neat p   | protection, Over-curren                       | it protection                                 | Over-neat   |                             | it protection                                 |
| Defeiserent        | Compressor               |            | D 440 A 5 Olive (40lb e)  | Over-heat protection                          | D 440 A 5 0                                   | R410A x 5.0kg (12lbs)   | Over-heat protection        | D 4404 5 01 (401h                             |
| Refrigerant        | Type x original ch       |            |   |   |   |   |                             |   |
| Net weight         |                          | kg (lbs)   | 195(430)  | 195(430)                                      | 195(430)                                      | 195(430)  | 195(430)                    | 195(430)                                      |
| Heat exchanger     | Motor volume - in        |            | plate type  | plate type                                    | plate type                                    | plate type  | plate type                  | plate type                                    |
|                    | Water volume in<br>plate | L          | 5.0   | 5.0   | 5.0   | 5.0   | 5.0                         | 5.0   |
| 1                  | Water pressure<br>Max.   | MPa        | 2.0   | 2.0   | 2.0   | 2.0   | 2.0                         | 2.0   |
| Optional parts     |                          |            | Heat Source Twinning kit: CMY-Y300VBK2<br>Joint: CMY-Y102SS-G2,CMY-Y102LS-G2,CMY-Y202S-G2,CMY-Y302S-G2<br>Header: CMY-Y104/108/1010-G |   |   | Heat Source Twinning kit: CMY-Y300VBK2<br>Joint: CMY-Y102SS-G2,CMY-Y102LS-G2,CMY-Y202S-G2,CMY-Y302S-G2<br>Header: CMY-Y104/108/1010-G |                             |   |

Notes:

| *1,*2 | Nominal | conditions |
|-------|---------|------------|
|       |         |            |

|         | Indoor Water temperature                 |             | Pipe length       | Level difference |  |
|---------|--|-------------|-------------------|------------------|--|
| Cooling | 27°CD.B./19°CW.B.<br>(81°FD.B./66°FW.B.) | 30°C (86°F) | 7.5m (24-9/16ft.) | 0m (0ft.)        |  |
| Heating | 20°CD.B. (68°FD.B.)                      | 20°C (68°F) |                   |                  |  |

\*3 The ambient temperature of the heat source unit needs to be kept below 40°CD.B.

3 The ambient temperature or the neat source unit needs to be kept below 40°-CU.B.
4 The ambient relative humidity of the heat source unit needs to be kept below 80%.
\*5 The heat source Unit should not be installed at outdoor.
\*6 Be sure to mount a strainer (more than 50 meshes) at the water inlet piping of the unit.
\*7 Be sure to provide interlocking for the unit operation and water circuit.
\*Nominal condition \*1,\*2 are subject to JIS B8615-1.
\*Due to continuing improvement, above specification may be subject to change without notice.

Outdoor unit

#### Notes: \*1 \*2 Nominal conditions

| ۰, | 2 NOTHINAI CONULIO | 115                                      |                   |         |
|----|--------------------|--|-------------------|---------|
|    |                    | Indoor                                   | Water temperature | Pipe    |
|    | Cooling            | 27°CD.B./19°CW.B.<br>(81°FD.B./66°FW.B.) | 30°C (86°F)       | 7.5m (2 |
|    | Heating            | 20°CD.B. (68°FD.B.)                      | 20°C (68°F)       |         |
|    |                    |  |                   |         |

\*3 The ambient temperature of the heat source unit needs to be kept below 40°CD.B.
\*4 The ambient relative humidity of the heat source unit needs to be kept below 80%.
\*5 The heat source Unit should not be installed at outdoor.
\*6 Be sure to mount a strainer (more than 50 meshes) at the water inlet piping of the unit.
\*7 Be sure to provide interlocking for the unit operation and water circuit.
\*Nominal condition \*1,\*2 are subject to JIS B8615-1.
\*Due to continuing improvement, above specification may be subject to change without notice.

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|---|--|---|
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| ipe length     | Level difference |
|----------------|------------------|
| n (24-9/16ft.) | Om (Oft.)        |



#### **HEAT SOURCE UNIT** WY (Heat Pump) Series PQHY-P YSHM-A



#### ► Specifications

| Model              |                           | PQHY-P750YSHM-A    |   |                             | PQHY-P800YSHM-A             |   |                             |                             |
|--------------------|---------------------------|--------------------|---|-----------------------------|-----------------------------|---|-----------------------------|-----------------------------|
| Power source       |                           |                    | 3-phase 4-wire 380-400-415V 50/60Hz   |                             |                             | 3-phase 4-wire 380-400-415V 50/60Hz   |                             |                             |
| Cooling capacity   | *1                        | kW                 |   | 85.0                        |                             |   | 90.0                        |                             |
| (Nominal)          | *1                        | BTU / h            |   | 290,000                     |                             |   | 307,100                     |                             |
| ` '                | Power input               | kW                 |   | 17.19                       |                             |   | 19.18                       |                             |
|                    | Current input             | Α                  |   | 29.0-27.5-26.5              |                             |   | 32.3-30.7-29.6              |                             |
|                    | EER                       | kW / kW            |   | 4.94                        |                             |   | 4.69                        |                             |
| Temp. range of     | Indoor                    | W.B.               |   | 15.0~24.0°C(59~75°F)        | )                           | 15.0~24.0°C(59~75°F)  |                             |                             |
| cooling            | Circulating water         | °C                 |   | 10.0~45.0°C(50~113°F        |                             |   | 10.0~45.0°C(50~113°F        |                             |
| Heating capacity   | *2                        |                    |   | 95.0                        |                             |   | 100.0                       | ,                           |
| (Nominal)          | *2                        | BTU / h            |   | 324,100                     |                             |   | 341,200                     |                             |
| ( ,                | Power input               | kW                 |   | 18.27                       |                             |   | 20.74                       |                             |
|                    | Current input             | Α                  |   | 30.8-29.3-28.2              |                             |   | 35.0-33.2-32.0              |                             |
|                    | COP                       | kW / kW            |   | 5.19                        |                             |   | 4.82                        |                             |
| Temp. range of     | Indoor                    | D.B.               |   | 15.0~27.0°C(59~81°F         | )                           |   | 15.0~27.0°C(59~81°F         | )                           |
| heating            | Circulating water         | °C                 |   | 10.0~45.0°C(50~113°F        |                             |   | 10.0~45.0°C(50~113°F        |                             |
| Indoor unit        | Total capacity            |                    |   | % of heat source unit       |                             |   | % of heat source unit       |                             |
| connectable        | Model / Quantity          |                    |   | P15~P250 / 2~50             |                             |   | P15~P250 / 2~50             |                             |
| Sound pressure le  | evel                      | dB <a></a>         |   | 54                          |                             |   | 54                          |                             |
| (measured in ane   |                           | UD <a></a>         |   | 94                          |                             |   | 94                          |                             |
| Refrigerant piping |                           | mm (in.)           |   | 19.05(3/4) Brazed           |                             |   | 19.05(3/4) Brazed           |                             |
| diameter [O.D.]    | Gas pipe                  | mm (in.)           |   | 34.93(1-3/8) Brazed         |                             |   | 34.93(1-3/8) Brazed         |                             |
| Set Model          |                           |                    |   |                             |                             |   |                             |                             |
| Model              | 1                         | 1                  | PQHY-P250YHM-A  |                             | PQHY-P250YHM-A              | PQHY-P300YHM-A  | PQHY-P250YHM-A              | PQHY-P250YHM-A              |
| Circulating water  | Water flow rate           | m <sup>3</sup> / h |   | 5.76 + 5.76 + 5.76          |                             |   | 5.76 + 5.76 + 5.76          |                             |
|                    |                           | L/min              |   | 96 + 96 + 96                |                             |   | 96 + 96 + 96                |                             |
|                    |                           | cfm                |   | 3.4 + 3.4 + 3.4             |                             |   | 3.4 + 3.4 + 3.4             |                             |
|                    | Pressure drop             | kPa                | 17  | 17                          | 17                          | 17  | 17                          | 17                          |
|                    | Operating<br>volume range | m³ / h             | 4.5 -   | + 4.5 + 4.5 ~ 7.2 + 7.2     | + 7.2                       | 4.5 -   | + 4.5 + 4.5 ~ 7.2 + 7.2     | + 7.2                       |
| Compressor         | Type x Quantity           |                    | Inverter scroll hermetic compressor   |                             |                             | Inverte   | er scroll hermetic comp     | pressor                     |
| -                  | Starting method           |                    | Inverter  | Inverter                    | Inverter                    | Inverter  | Inverter                    | Inverter                    |
|                    | Motor output              | kW                 | 6.3   | 6.3                         | 6.3                         | 7.4   | 6.3                         | 6.3                         |
|                    | Case heater               | kW                 | 0.035(240 V)  | 0.035(240 V)                | 0.035(240 V)                | 0.035(240 V)  | 0.035(240 V)                | 0.035(240 V)                |
| External finish    |                           |                    | A   | crylic painted steel pla    | te                          | A   | crylic painted steel pla    | te                          |
| External dimensio  | n HxWxD                   | mm                 | 1,160(1,100 without   | 1,160(1,100 without         | 1,160(1,100 without         | 1,160(1,100 without   | 1,160(1,100 without         | 1,160(1,100 without         |
|                    |                           |                    | legs) x 880 x 550   | legs) x 880 x 550           | legs) x 880 x 550           | legs) x 880 x 550   | legs) x 880 x 550           | legs) x 880 x 550           |
|                    |                           | in.                | 45-11/16(43-5/16 without  | 45-11/16(43-5/16 without    | 45-11/16(43-5/16 without    | 45-11/16(43-5/16 without  | 45-11/16(43-5/16 without    | 45-11/16(43-5/16 without    |
|                    |                           |                    | legs) x 34-11/16 x 21-11/16   | legs) x 34-11/16 x 21-11/16 | legs) x 34-11/16 x 21-11/16 | legs) x 34-11/16 x 21-11/16   | legs) x 34-11/16 x 21-11/16 | legs) x 34-11/16 x 21-11/16 |
| Protection         | High pressure pre         |                    |   | r, High pressure switch     |                             |   | r, High pressure switch     |                             |
| devices            | Inverter circuit (C       | OMP.)              | Over-heat   | protection, Over-currer     | nt protection               | Over-heat   | protection, Over-currer     | nt protection               |
|                    | Compressor                |                    |   | Over-heat protection        |                             | Over-heat protection  |                             |                             |
| Refrigerant        | Type x original ch        |                    |   |                             |                             | R410A x 5.0kg (12lbs)   | R410A x 5.0kg (12lbs)       |                             |
| Net weight         |                           | kg (lbs)           | 195(430)  | 195(430)                    | 195(430)                    | 195(430)  | 195(430)                    | 195(430)                    |
| Heat exchanger     |                           |                    | plate type  | plate type                  | plate type                  | plate type  | plate type                  | plate type                  |
|                    | Water volume in<br>plate  | L                  | 5.0   | 5.0                         | 5.0                         | 5.0   | 5.0                         | 5.0                         |
|                    | Water pressure<br>Max.    | MPa                | 2.0   | 2.0                         | 2.0                         | 2.0   | 2.0                         | 2.0                         |
| Optional parts     |                           |                    | 2.0         2.0           Heat Source Twinning kit: CMY-Y300VBK2           Joint: CMY-Y102S-62, CMY-Y102LS-62, CMY-Y202S-62, CMY-Y302S-62           Header: CMY-Y104/108/1010-G |                             |                             | Heat Source Twinning kit: CMY-Y300VBK2<br>2 Joint: CMY-Y102SS-G2,CMY-Y102LS-G2,CMY-Y202S-G2,CMY-Y302S-G2<br>Header: CMY-Y104/108/1010-G |                             |                             |

### **HEAT SOURCE UNIT** WY (Heat Pump) Series PQHY-P YSHM-A

### ► Specifications

| Model              |                                   |                   |                                     | PQHY-P850YSHM-A                                |                                     |   | PQHY-P900YSHM-A                          |                          |
|--------------------|-----------------------------------|-------------------|-------------------------------------|--|-------------------------------------|---|--|--------------------------|
| Power source       |                                   |                   | 3-phase                             | 4-wire 380-400-415V                            | 50/60Hz                             | 3-phase   | 4-wire 380-400-415V                      | 50/60Hz                  |
| Cooling capacity   | *1                                | kW                | 96.0                                |  | 101.0                               |   |  |                          |
| (Nominal)          | *1                                | BTU / h           |                                     | 327,600  |                                     |   | 344,600                                  |                          |
| · · · ·            | Power input                       | kW                | 21.20                               |  |                                     |   | 23.22                                    |                          |
|                    | Current input                     | A                 | 35.7-33.9-32.7                      |  |                                     |   | 39.1-37.2-35.8                           |                          |
|                    | EER                               | kW / kW           |                                     | 4.52   |                                     |   | 4.34                                     |                          |
| Temp. range of     | Indoor                            | W.B.              |                                     | 15.0~24.0°C(59~75°F)                           |                                     |   | 15.0~24.0°C(59~75°F                      | )                        |
| cooling            | Circulating water                 | °C                |                                     | 10.0~45.0°C(50~113°F                           |                                     |   | 10.0~45.0°C(50~113°F                     |                          |
| Heating capacity   | *2                                | kW                |                                     | 108.0  |                                     |   | 113.0                                    | 1                        |
| (Nominal)          | *2                                | BTU / h           |                                     | 368,500  |                                     |   | 385,600                                  |                          |
| ```                | Power input                       | kW                |                                     | 23.21  |                                     |   | 25.67                                    |                          |
|                    | Current input                     | A                 |                                     | 39.1-37.2-35.8                                 |                                     |   | 43.3-41.1-39.6                           |                          |
|                    | COP                               | kW / kW           |                                     | 4.65   |                                     |   | 4.40                                     |                          |
| Temp. range of     | Indoor                            | D.B.              |                                     | 15.0~27.0°C(59~81°F)                           | )                                   |   | 15.0~27.0°C(59~81°F                      | )                        |
| heating            | Circulating water                 | °C                |                                     | 10.0~45.0°C(50~113°F                           |                                     |   | 10.0~45.0°C(50~113°F                     |                          |
| Indoor unit        | Total capacity                    |                   |                                     | % of heat source unit                          |                                     |   | % of heat source unit                    |                          |
| connectable        | Model / Quantity                  |                   |                                     | P15~P250 / 2~50                                |                                     |   | P15~P250 / 2~50                          |                          |
| Sound pressure le  |                                   |                   |                                     |  |                                     |   |  |                          |
| (measured in ane   |                                   | dB <a></a>        |                                     | 54.5   |                                     |   | 55                                       |                          |
| Refrigerant piping | Liquid pipe                       | mm (in.)          |                                     | 19.05(3/4) Brazed                              |                                     |   | 19.05(3/4) Brazed                        |                          |
| diameter [O.D.]    | Gas pipe                          | mm (in.)          |                                     | 41.28(1-5/8) Brazed                            |                                     |   | 41.28(1-5/8) Brazed                      |                          |
| Set Model          |                                   |                   |                                     |  |                                     | •   |  |                          |
| Model              |                                   |                   | PQHY-P300YHM-A                      | PQHY-P300YHM-A                                 | PQHY-P250YHM-A                      | PQHY-P300YHM-A  | PQHY-P300YHM-A                           | PQHY-P300YHM-A           |
| Circulating water  | Water flow rate                   | m <sup>3</sup> /h |                                     | 5.76 + 5.76 + 5.76                             |                                     |   | 5.76 + 5.76 + 5.76                       |                          |
| -                  |                                   | L/min             |                                     | 96 + 96 + 96                                   |                                     |   | 96 + 96 + 96                             |                          |
|                    |                                   | cfm               |                                     | 3.4 + 3.4 + 3.4                                |                                     |   | 3.4 + 3.4 + 3.4                          |                          |
|                    | Pressure drop                     | kPa               | 17                                  | 17   | 17                                  | 17  | 17                                       | 17                       |
|                    | Operating volume range            | m³ / h            | 4.5 + 4.5 + 4.5 ~ 7.2 + 7.2 + 7.2   |  |                                     | 4.5 + 4.5 + 4.5 ~ 7.2 + 7.2 + 7.2   |  |                          |
| Compressor         | Type x Quantity                   | 1                 | Inverter scroll hermetic compressor |  | Inverter scroll hermetic compressor |   |  |                          |
| Compresses         | Starting method                   |                   | Inverter                            | Inverter                                       | Inverter                            | Inverter  | Inverter                                 | Inverter                 |
|                    | Motor output                      | kW                | 7.4                                 | 7.4  | 6.3                                 | 7.4   | 7.4                                      | 7.4                      |
|                    | Case heater                       | kW                | 0.035(240 V)                        | 0.035(240 V)                                   | 0.035(240 V)                        | 0.035(240 V)  | 0.035(240 V)                             | 0.035(240 V)             |
| External finish    |                                   |                   |                                     | crylic painted steel pla                       |                                     |   | crylic painted steel pla                 |                          |
| External dimensio  | n HxWxD                           | mm                |                                     | 1,160(1,100 without<br>legs) x 880 x 550       |                                     |   | 1,160(1,100 without<br>legs) x 880 x 550 |                          |
|                    |                                   | in.               | 45-11/16(43-5/16 without            | 45-11/16(43-5/16 without                       | 45-11/16(43-5/16 without            | 45-11/16(43-5/16 without  | 45-11/16(43-5/16 without                 | 45-11/16(43-5/16 without |
| Protection         | Llinh processo pr                 | stastion          |                                     |  |                                     | 6 legs) x 34-11/16 x 21-11/16 legs) x 34-11/16 x 21-11/16 legs) x 34-11/16 x 21-11/1                            |  |                          |
| devices            | High pressure pro                 |                   |                                     |  |                                     | High pressure sensor, High pressure switch at 4.15MPa (601 psi<br>Over-heat protection, Over-current protection |  |                          |
| devices            | Inverter circuit (C<br>Compressor | OIVIP.)           | Over-riear                          | Over-heat protection                           | it protection                       | Over-rieat  | Over-heat protection                     | it protection            |
| Definent           |                                   |                   |                                     |  | D 4404 5 01 (401                    | R410A x 5.0kg (12lbs)   |  | D 4404 5 01 (401         |
| Refrigerant        | Type x original ch                |                   |                                     |  |                                     |   |  |                          |
| Net weight         |                                   | kg (lbs)          | 195(430)                            | 195(430)                                       | 195(430)                            | 195(430)  | 195(430)                                 | 195(430)                 |
| Heat exchanger     | Water volume in                   | L                 | plate type<br>5.0                   | plate type<br>5.0                              | plate type<br>5.0                   | plate type<br>5.0   | plate type<br>5.0                        | plate type<br>5.0        |
|                    | plate<br>Water pressure           | MPa               | 2.0                                 | 2.0  | 2.0                                 | 2.0   | 2.0                                      | 2.0                      |
| Optional parts     | Max.                              |                   | Heat Sour                           | ce Twinning kit: CMY-1<br>CMY-Y102LS-G2,CMY-Y2 | Y300VBK2                            | Heat Source Twinning kit: CMY-Y300VBK2  |  |                          |
|                    |                                   |                   |                                     | der: CMY-Y104/108/10                           | ,                                   |   | der: CMY-Y104/108/10                     |                          |

Notes:

\*1,\*2

| 2 Nominal conditions |  |                   |                   |                  |  |  |  |
|----------------------|--|-------------------|-------------------|------------------|--|--|--|
|                      | Indoor                                   | Water temperature | Pipe length       | Level difference |  |  |  |
| Cooling              | 27°CD.B./19°CW.B.<br>(81°FD.B./66°FW.B.) | 30°C (86°F)       | 7.5m (24-9/16ft.) | 0m (0ft.)        |  |  |  |
| Heating              | 20°CD.B. (68°FD.B.)                      | 20°C (68°F)       |                   |                  |  |  |  |

\*3 The ambient temperature of the heat source unit needs to be kept below 40°CD.B.

3 The ambient temperature or the neat source unit needs to be kept below 40°-CU.B.
4 The ambient relative humidity of the heat source unit needs to be kept below 80%.
\*5 The heat source Unit should not be installed at outdoor.
\*6 Be sure to mount a strainer (more than 50 meshes) at the water inlet piping of the unit.
\*7 Be sure to provide interlocking for the unit operation and water circuit.
\*Nominal condition \*1,\*2 are subject to JIS B8615-1.
\*Due to continuing improvement, above specification may be subject to change without notice.

Outdoor unit

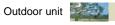
#### Notes: \*1,\*2 Nominal condition

| ۰,      | 1, 2 Normal conditions |  |                   |         |  |  |
|---------|------------------------|--|-------------------|---------|--|--|
|         |                        | Indoor                                   | Water temperature | Pipe    |  |  |
| Cooling |                        | 27°CD.B./19°CW.B.<br>(81°FD.B./66°FW.B.) | 30°C (86°F)       | 7.5m (2 |  |  |
|         | Heating                | 20°CD.B. (68°FD.B.)                      | 20°C (68°F)       |         |  |  |
|         |                        |  |                   |         |  |  |

\*3 The ambient temperature of the heat source unit needs to be kept below 40°CD.B.
\*4 The ambient relative humidity of the heat source unit needs to be kept below 80%.
\*5 The heat source Unit should not be installed at outdoor.
\*6 Be sure to mount a strainer (more than 50 meshes) at the water inlet piping of the unit.
\*7 Be sure to provide interlocking for the unit operation and water circuit.
\*Nominal condition \*1,\*2 are subject to JIS B8615-1.
\*Due to continuing improvement, above specification may be subject to change without notice.

| • | - |   |
|---|---|---|
| • |   |   |
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| ipe length     | Level difference |  |
|----------------|------------------|--|
| n (24-9/16ft.) | 0m (0ft.)        |  |



## **OUTDOOR UNIT R2** Series PURY-P YJM-A(-BS)



## ► Specifications

| Model                              |                      |            | PURY-P200YJM-A(-BS)                                    | PURY-P250YJM-A(-BS)                                    | PURY-P300YJM-A(-BS)                                    |
|------------------------------------|----------------------|------------|--|--|--|
| Power source                       |                      |            | 3-phase 4-wire 380-400-415V 50/60Hz                    | 3-phase 4-wire 380-400-415V 50/60Hz                    | 3-phase 4-wire 380-400-415V 50/60Hz                    |
| Cooling capacity                   | ty *1 kW             |            | 22.4   | 28.0   | 33.5   |
| (Nominal)                          | *1                   | BTU / h    | 76,400   | 95,500   | 114,300  |
| , ,                                | Power input          | kW         | 5.18   | 7.05   | 8.67   |
|                                    | Current input        | Α          | 8.7-8.3-8.0  | 11.9-11.3-10.8   | 14.6-13.9-13.4   |
|                                    | EER                  | kW / kW    | 4.32   | 3.97   | 3.86   |
| Temp. range of                     | Indoor               | W.B.       | 15.0~24.0°C(59~75°F)                                   | 15.0~24.0°C(59~75°F)                                   | 15.0~24.0°C(59~75°F)                                   |
|                                    | Outdoor              | D.B.       | -5.0~46.0°C(23~115°F)                                  | -5.0~46.0°C(23~115°F)                                  | -5.0~46.0°C(23~115°F)                                  |
| Heating capacity                   | *2                   | kW         | 25.0   | 31.5   | 37.5   |
| (Nominal)                          | *2                   | BTU / h    | 85.300   | 107.500  | 128.000  |
|                                    | Power input          | kW         | 5.69   | 7.32   | 8.78   |
|                                    | Current input        | A          | 9.6-9.1-8.7  | 12.3-11.7-11.3   | 14.8-14.0-13.5   |
|                                    | COP                  | kW / kW    | 4.39   | 4.30   | 4.27   |
| Temp. range of                     | Indoor               | D.B.       | 15.0~27.0°C(59~81°F)                                   | 15.0~27.0°C(59~81°F)                                   | 15.0~27.0°C(59~81°F)                                   |
|                                    | Outdoor              | W.B.       | -20.0~15.5°C(-4~60°F)                                  | -20.0~15.5°C(-4~60°F)                                  | -20.0~15.5°C(-4~60°F)                                  |
| Indoor unit                        | Total capacity       | VV.D.      | 50~150 % of outdoor unit capacity                      | 50~150 % of outdoor unit capacity                      | 50~150 % of outdoor unit capacity                      |
| connectable                        | Model / Quantity     |            | P15~P250 / 1~20  | P15~P250 / 1~25  | P15~P250 / 1~30  |
| Sound pressure le                  |                      |            | F 15~F2507 1~20  | F 15~F 2507 1~25                                       | F 13~F 2307 1~30                                       |
| (measured in ane                   |                      | dB <a></a> | 56   | 57   | 59   |
| Power pressure le                  | ,                    |            |  |  |  |
| (measured in ane                   |                      | dB <a></a> | 76   | 77   | 79   |
| Refrigerant piping                 | High pressure        | mm (in.)   | 15.88(5/8) Brazed                                      | 19.05(3/4) Brazed                                      | 19.05(3/4) Brazed                                      |
| diameter                           | Low pressure         | mm (in.)   | 19.05(3/4) Brazed                                      | 22.2(7/8) Brazed                                       | 22.2(7/8) Brazed                                       |
| FAN                                | Type x Quantity      |            | Propeller fan x 1                                      | Propeller fan x 1                                      | Propeller fan x 1                                      |
|                                    | Air flow rate        | m³/min     | 185  | 185  | 185  |
|                                    |                      | L/s        | 3,083  | 3,083  | 3,083  |
|                                    |                      | cfm        | 6,532  | 6,532  | 6,532  |
|                                    | Driving mechanism    |            | Inverter-control, Direct-driven by motor               | Inverter-control, Direct-driven by motor               | Inverter-control, Direct-driven by motor               |
|                                    | Motor output kW      |            | 0.92 x 1   | 0.92 x 1   | 0.92 x 1   |
| *4                                 | External static pr   | ess.       | 0 Pa (0 mmH <sub>2</sub> O)                            | 0 Pa (0 mmH <sub>2</sub> O)                            | 0 Pa (0 mmH <sub>2</sub> O)                            |
| Compressor                         | Type x Quantity      |            | Inverter scroll hermetic compressor                    | Inverter scroll hermetic compressor                    | Inverter scroll hermetic compressor                    |
| ·                                  | Starting method      |            | Inverter   | Inverter   | Inverter   |
|                                    | Motor output         | kW         | 5.4  | 6.8  | 7.8  |
|                                    | Case heater          | kW         | 0.035(240 V)   | 0.035(240 V)   | 0.045(240 V)   |
| External finish                    | 1                    |            | Pre-coated galvanized steel sheets                     | Pre-coated galvanized steel sheets                     | Pre-coated galvanized steel sheets                     |
|                                    |                      |            | (+powder coating for -BS type)                         | (+powder coating for -BS type)                         | (+powder coating for -BS type)                         |
|                                    |                      |            | <munsell 1="" 5y="" 8="" or="" similar=""></munsell>   | <munsell 1="" 5y="" 8="" or="" similar=""></munsell>   | <munsell 1="" 5y="" 8="" or="" similar=""></munsell>   |
| External dimensio                  | n HxWxD              | mm         | 1,710(1,650 without legs) x 920 x 760                  | 1,710(1,650 without legs) x 920 x 760                  | 1,710(1,650 without legs) x 920 x 760                  |
|                                    |                      | in.        | 67-3/8(65 without legs) x 36-1/4 x 29-15/16            | 67-3/8(65 without legs) x 36-1/4 x 29-15/16            | 67-3/8(65 without legs) x 36-1/4 x 29-15/16            |
| Protection                         | High pressure pro    |            | · · · · · · · · · · · · · · · · · · ·                  | High pressure sensor, High pressure switch             | ( °,   |
| devices                            | • • •                |            | at 4.15MPa (601 psi)                                   | at 4.15MPa (601 psi)                                   | at 4.15MPa (601 psi)                                   |
|                                    | Inverter circuit (CO | MP./FAN)   | Over-heat protection, Over-current protection          |  | Over-heat protection, Over-current protection          |
|                                    | Compressor           |            | Over-heat protection                                   | Over-heat protection                                   | Over-heat protection                                   |
| Fan motor                          |                      |            | Thermal switch   | Thermal switch   | Thermal switch   |
| Refrigerant Type x original charge |                      |            | R410A x 9.5kg (21lbs)                                  | R410A x 9.5kg (21lbs)                                  | R410A x 9.5kg (21lbs)                                  |
| Net weight                         |                      | kg (lbs)   | 240(530)   | 240(530)   | 245(541)   |
| Heat exchanger                     |                      |            | Salt-resistant cross fin & copper tube                 | Salt-resistant cross fin & copper tube                 | Salt-resistant cross fin & copper tube                 |
| Optional parts                     |                      |            | Joint: CMY-Y102SS-G2,CMY-Y102LS-G2,CMY-R160-J1         | Joint: CMY-Y102SS-G2, CMY-Y102LS-G2, CMY-R160-J1       | Joint: CMY-Y102SS-G2,CMY-Y102LS-G2,CMY-R160-J1         |
|                                    |                      |            | BC controller: CMB-P104,105,106,108,1010,1013,1016V-G1 | BC controller: CMB-P104,105,106,108,1010,1013,1016V-G1 | BC controller: CMB-P104,105,106,108,1010,1013,1016V-G1 |
|                                    |                      |            | Main BC controller: CMB-P108,1010,1013,1016V-GA1       | Main BC controller: CMB-P108,1010,1013,1016V-GA1       | Main BC controller: CMB-P108,1010,1013,1016V-GA1       |
|                                    |                      |            | Sub BC controller: CMB-P104,108V-GB1,CMB-P1016V-HB1    | Sub BC controller: CMB-P104,108V-GB1,CMB-P1016V-HB1    | Sub BC controller: CMB-P104,108V-GB1,CMB-P1016V-HB1    |
|                                    |                      |            |  |  |  |

## **OUTDOOR UNIT R2 Series** PURY-P YJM-A(-BS)

## ► Specifications

| Model                                       |                      |                        | PURY-P350YJM-A(-BS)  | PURY-P400YJM-A(-BS)  | PURY-P450YJM-A(-BS)   |  |
|---|----------------------|------------------------|--|--|---|--|
| Power source                                |                      |                        | 3-phase 4-wire 380-400-415V 50/60Hz  | 3-phase 4-wire 380-400-415V 50/60Hz  | 3-phase 4-wire 380-400-415V 50/60Hz   |  |
| Cooling capacity                            | *1                   | kW                     | 40.0   | 45.0   | 50.0  |  |
| (Nominal)                                   |                      | BTU / h                | 136,500  | 153,500  | 170,600   |  |
|   | Power input          | kW                     | 11.33  | 13.55  | 14.49   |  |
|   | Current input        | A                      | 19.1-18.1-17.5   | 22.8-21.7-20.9   | 24.4-23.2-22.3  |  |
|   | EER                  | kW / kW                | 3.53   | 3.32   | 3.45  |  |
| Temp. range of                              | Indoor               | W.B.                   | 15.0~24.0°C(59~75°F)   | 15.0~24.0°C(59~75°F)   | 15.0~24.0°C(59~75°F)  |  |
|   | Outdoor              | D.B.                   | -5.0~46.0°C(23~115°F)  | -5.0~46.0°C(23~115°F)  | -5.0~46.0°C(23~115°F)   |  |
| Heating capacity                            | *2                   |                        | 45.0   | 50.0   | 56.0  |  |
| (Nominal)                                   |                      | BTU / h                | 153,500  | 170.600  | 191.100   |  |
| (   | Power input          | kW                     | 10.89  | 12.75  | 14.58   |  |
|   | Current input        | A                      | 18.3-17.4-16.8   | 21.5-20.4-19.7   | 24.6-23.3-22.5  |  |
|   | COP                  | kW / kW                | 4.13   | 3.92   | 3.84  |  |
| Temp. range of                              | Indoor               | D.B.                   | 4.13<br>15.0~27.0°C(59~81°F)   |  |   |  |
|   |                      |                        |  | 15.0~27.0°C(59~81°F)   | 15.0~27.0°C(59~81°F)  |  |
|   |                      | W.B.                   | -20.0~15.5°C(-4~60°F)  | -20.0~15.5°C(-4~60°F)  | -20.0~15.5°C(-4~60°F)   |  |
| Indoor unit                                 | Total capacity       |                        | 50~150 % of outdoor unit capacity  | 50~150 % of outdoor unit capacity  | 50~150 % of outdoor unit capacity   |  |
| connectable                                 | Model / Quantity     |                        | P15~P250 / 1~35  | P15~P250 / 1~40  | P15~P250 / 1~45   |  |
| Sound pressure le<br>(measured in anec      | choic room)          | dB <a></a>             | 60   | 61   | 62  |  |
| Power pressure le<br>(measured in anec      |                      | dB <a></a>             | 80   | 81   | 82  |  |
| Refrigerant piping                          | High pressure        | mm (in.)               | 19.05(3/4) Brazed  | 22.2(7/8) Brazed   | 22.2(7/8) Brazed  |  |
| diameter                                    | Low pressure         | mm (in.)               | 28.58(1-1/8) Brazed  | 28.58(1-1/8) Brazed  | 28.58(1-1/8) Brazed   |  |
| FAN   | Type x Quantity      |                        | Propeller fan x 1  | Propeller fan x 1  | Propeller fan x 2   |  |
|   | Air flow rate        | m³/min                 | 225  | 225  | 360   |  |
|   |                      | L/s                    | 3.750  | 3.750  | 6.000   |  |
|   |                      | cfm                    | 7,945  | 7.945  | 12.712  |  |
|   | Driving mechanism    |                        | Inverter-control, Direct-driven by motor   | Inverter-control, Direct-driven by motor   | Inverter-control, Direct-driven by motor  |  |
|   | Motor output         | kW                     | 0.92 x 1   | 0.92 x 1   | 0.92 x 2  |  |
| */  | External static pro  |                        | 0 Pa (0 mmH <sub>2</sub> O)  | 0 Pa (0 mmH <sub>2</sub> O)  | 0 Pa (0 mmH <sub>2</sub> O)   |  |
| Compressor                                  | Type x Quantity      |                        | Inverter scroll hermetic compressor  | Inverter scroll hermetic compressor  | Inverter scroll hermetic compressor   |  |
| Compressor                                  | Starting method      |                        | Inverter   | Inverter   | Inverter  |  |
|   | Motor output         | kW                     | 9.9  | 10.2   | 11.6  |  |
|   | Case heater          | kW                     | 9.9<br>0.045(240 V)  | 0.045(240 V)   | 0.045(240 V)  |  |
| External finish                             | Case nealer          | KVV                    |  |  |   |  |
| External linish                             |                      |                        | Pre-coated galvanized steel sheets<br>(+powder coating for -BS type)<br><munsell 1="" 5y="" 8="" or="" similar=""></munsell>   | Pre-coated galvanized steel sheets<br>(+powder coating for -BS type)<br><munsell 1="" 5y="" 8="" or="" similar=""></munsell>   | Pre-coated galvanized steel sheets<br>(+powder coating for -BS type)<br><munsell 1="" 5y="" 8="" or="" similar=""></munsell>  |  |
| External dimension                          | n HxWxD              | mm                     | 1,710(1,650 without legs) x 1,220 x 760  | 1,710(1,650 without legs) x 1,220 x 760  | 1,710(1,650 without legs) x 1,750 x 760   |  |
|   |                      | in.                    | 67-3/8(65 without legs) x 48-1/16 x 29-<br>15/16   | 67-3/8(65 without legs) x 48-1/16 x 29-<br>15/16   | 67-3/8(65 without legs) x 68-15/16 x 29-15/16   |  |
| Protection High pressure protection devices |                      | otection               | High pressure sensor, High pressure switch<br>at 4.15MPa (601 psi)   | High pressure sensor, High pressure switch<br>at 4.15MPa (601 psi)   | High pressure sensor, High pressure switch<br>at 4.15MPa (601 psi)  |  |
|   | Inverter circuit (CO | MP./FAN)               | Over-heat protection, Over-current protection  | Over-heat protection, Over-current protection  | Over-heat protection, Over-current protection   |  |
|   | Compressor           |                        | Over-heat protection   | Over-heat protection   | Over-heat protection  |  |
|   | Fan motor            |                        | Thermal switch   | Thermal switch   | Thermal switch  |  |
| Refrigerant Type x original charge          |                      | R410A x 11.8kg (27lbs) | R410A x 11.8kg (27lbs)   | R410A x 11.8kg (27lbs)   |   |  |
| Net weight                                  | , <u>.</u>           | kg (lbs)               | 270(596)   | 270(596)   | 320(706)  |  |
| Heat exchanger                              |                      |                        | Salt-resistant cross fin & copper tube   | Salt-resistant cross fin & copper tube   | Salt-resistant cross fin & copper tube  |  |
| Optional parts                              |                      |                        | Joint: CMY-Y102SS-G2,CMY-Y102LS-G2,CMY-R160-J1<br>BC controller: CMB-P104,105,106,108,1010,1013,1016V-G1<br>Main BC controller: CMB-P108,1010,1013,1016V-G61<br>Sub BC controller: CMB-P108,1010,1013,1016V-G61,<br>CMB-P1016V-HB1 | Joint: CMY-Y102S-G2,CMY-Y102LS-<br>G2,CMY-R160-J1<br>Main BC controller: CMB-<br>P108,1010,1013,1016V-GA1<br>Sub BC controller: CMB-P104,108V-<br>GB1,CMB-P1016V-HB1 | Joint: CMY-Y102SS-G2,CMY-Y102LS-<br>G2,CMV-R160-J1<br>Main BC controller: CMB-<br>P108,1010,1013,1016V-GA1<br>Sub BC controller: CMB-P104,108V-<br>GB1.CMB-P1016V-HB1 |  |

#### Notes:

\*1,\*2 Nominal conditions

|         | Indoor                               | Outdoor                        | Pipe length       | Level difference |
|---------|--------------------------------------|--------------------------------|-------------------|------------------|
| Cooling | 27°C DB/19°C WB<br>(81°F DB/66°F WB) | 35°C DB(95°F DB)               | 7.5m (24-9/16ft.) | 0m (0ft.)        |
| Heating | 20°C DB(68°F DB)                     | 7°C DB/6°C WB(45°F DB/43°F WB) | 7.5m (24-9/16ft.) | 0m (0ft.)        |

\*3 -5°C DB (23°F DB) / -6°C WB (21°F WB) to 21°C DB (70°F DB) / 15.5°C WB (60°F WB) with cooling/heating mixed operation.

\*4 External static pressure option is available (30Pa / 0.1 mmbg/ 0.6.1 mmHgO).
 \*Nominal condition \*1,\*2 are subject to JIS B8615-1.
 \*Due to continuing improvement, above specification may be subject to change without notice.

Outdoor unit

#### \*1,\*2 Nominal conditions Indoor Outdoor 27°C DB/19°C WB Cooling 35°C DB(95°F DB) 7 (81°F DB/66°F WB) Heating 20°C DB(68°F DB) 7°C DB/6°C WB(45°F DB/43°F WB) 7.5

\*3 -5°C DB (23°F DB) / -6°C WB (21°F WB) to 21°C DB (70°F DB) / 15.5°C WB (60°F WB) with cooling/heating mixed operation. \*4 External static pressure option is available (30Pa / 3.1mmH<sub>2</sub>O, 6.1mmH<sub>2</sub>O).
 \*Nominal condition \*1,\*2 are subject to JIS B8615-1.
 \*Due to continuing improvement, above specification may be subject to change without notice.

Notes:

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|--|--|--|----------------|

| Level difference |
|------------------|
| 0m (0ft.)        |
| 0m (0ft.)        |
|                  |



## **OUTDOOR UNIT R2 Series** PURY-P YSJM-A(1)(-BS)





| woder   |                  |            | PURT-P40015JW-A1(-D5)               | PURT-P4301 SJW-A1(-DS)              | PURT-POULTOJW-A(-DO)                |
|---|------------------|------------|-------------------------------------|-------------------------------------|-------------------------------------|
| Power source  |                  |            | 3-phase 4-wire 380-400-415V 50/60Hz | 3-phase 4-wire 380-400-415V 50/60Hz | 3-phase 4-wire 380-400-415V 50/60Hz |
| Cooling capacity  | *1               | kW         | 45.0                                | 50.0                                | 56.0                                |
| (Nominal)   | *1               | BTU / h    | 153,500                             | 170,600                             | 191,100                             |
|   | Power input      | kW         | 10.73                               | 12.50                               | 14.85                               |
|   | Current input    | Α          | 18.1-17.2-16.5                      | 21.1-20.0-19.3                      | 25.0-23.8-22.9                      |
|   | EER              | kW / kW    | 4.19                                | 4.00                                | 3.77                                |
| Temp. range of  | Indoor           | W.B.       | 15.0~24.0°C(59~75°F)                | 15.0~24.0°C(59~75°F)                | 15.0~24.0°C(59~75°F)                |
| cooling *3  | Outdoor          | D.B.       | -5.0~46.0°C(23~115°F)               | -5.0~46.0°C(23~115°F)               | -5.0~46.0°C(23~115°F)               |
| Heating capacity  | *2               | kW         | 50.0                                | 56.0                                | 63.0                                |
| (Nominal)   | *2               | BTU / h    | 170,600                             | 191,100                             | 215,000                             |
|   | Power input      | kW         | 11.62                               | 13.30                               | 15.10                               |
|   | Current input    | A          | 19.6-18.6-17.9                      | 22.4-21.3-20.5                      | 25.4-24.2-23.3                      |
|   | COP              | kW/kW      | 4.30                                | 4.21                                | 4.17                                |
| Temp. range of  | Indoor           | D.B.       | 15.0~27.0°C(59~81°F)                | 15.0~27.0°C(59~81°F)                | 15.0~27.0°C(59~81°F)                |
| heating *3  | Outdoor          | W.B.       | -20.0~15.5°C(-4~60°F)               | -20.0~15.5°C(-4~60°F)               | -20.0~15.5°C(-4~60°F)               |
| Indoor unit   | Total capacity   |            | 50~150 % of outdoor unit capacity   | 50~150 % of outdoor unit capacity   | 50~150 % of outdoor unit capacity   |
| connectable   | Model / Quantity |            | P15~P250 / 1~40                     | P15~P250 / 1~45                     | P15~P250 / 1~50                     |
| Sound pressure level<br>(measured in anechoic room) dB </td <td>dB <a></a></td> <td>59</td> <td>59.5</td> <td>60</td> |                  | dB <a></a> | 59                                  | 59.5                                | 60                                  |
| Power pressure level<br>(measured in anechoic room) dB  |                  | dB <a></a> | 79                                  | 79.5                                | 80                                  |
| Refrigerant piping  | High pressure    | mm (in.)   | 22.2(7/8) Brazed                    | 22.2(7/8) Brazed                    | 22.2(7/8) Brazed                    |
| diameter  | Low pressure     | mm (in.)   | 28.58(1-1/8) Brazed                 | 28.58(1-1/8) Brazed                 | 28.58(1-1/8) Brazed                 |

| Set Model                          |                      |                       |   |                             |  |                             |  |                             |
|------------------------------------|----------------------|-----------------------|---|-----------------------------|--|-----------------------------|--|-----------------------------|
| Model                              |                      |                       | PURY-   | PURY-                       | PURY-  | PURY-                       | PURY-  | PURY-                       |
|                                    |                      |                       | P200YJM-A(-BS)  | P200YJM-A(-BS)              | P200YJM-A(-BS)                                       | P250YJM-A(-BS)              | P250YJM-A(-BS)                                       | P250YJM-A(-BS)              |
| FAN                                | Type x Quantity      |                       | Propeller fan x 1   | Propeller fan x 1           | Propeller fan x 1                                    | Propeller fan x 1           | Propeller fan x 1                                    | Propeller fan x 1           |
|                                    | Air flow rate        | m³/min                | 185   | 185                         | 185  | 185                         | 185  | 185                         |
|                                    |                      | L/s                   | 3,083   | 3,083                       | 3,083  | 3,083                       | 3,083  | 3,083                       |
|                                    |                      | cfm                   | 6,532   | 6,532                       | 6,532  | 6,532                       | 6,532  | 6,532                       |
|                                    | Driving mechanis     | sm                    | Inverter-control, Dir   | rect-driven by motor        | Inverter-control, Dir                                | rect-driven by motor        | Inverter-control, Dir                                | rect-driven by motor        |
|                                    | Motor output         | kW                    | 0.92 x 1  | 0.92 x 1                    | 0.92 x 1   | 0.92 x 1                    | 0.92 x 1   | 0.92 x 1                    |
| *4                                 | External static pr   | ess.                  | 0 Pa (0 mmH <sub>2</sub> O)   | 0 Pa (0 mmH <sub>2</sub> O) | 0 Pa (0 mmH <sub>2</sub> O)                          | 0 Pa (0 mmH <sub>2</sub> O) | 0 Pa (0 mmH <sub>2</sub> O)                          | 0 Pa (0 mmH <sub>2</sub> O) |
| Compressor                         | Type x Quantity      |                       | Inverter scroll her   | metic compressor            | Inverter scroll her                                  | metic compressor            | Inverter scroll her                                  | metic compressor            |
| -                                  | Starting method      |                       | Inverter  | Inverter                    | Inverter   | Inverter                    | Inverter   | Inverter                    |
|                                    | Motor output         | kW                    | 5.4   | 5.4                         | 5.4  | 6.8                         | 6.8  | 6.8                         |
|                                    | Case heater          | kW                    | 0.035(240 V)  | 0.035(240 V)                | 0.035(240 V)   | 0.035(240 V)                | 0.035(240 V)   | 0.035(240 V)                |
| External finish                    |                      |                       | Pre-coated galva  | nized steel sheets          | Pre-coated galvanized steel sheets                   |                             | Pre-coated galvanized steel sheets                   |                             |
|                                    |                      |                       | (+powder coating for -BS type)  |                             | (+powder coati                                       | ng for -BS type)            | (+powder coati                                       | ng for -BS type)            |
|                                    |                      |                       | <munsell 51<="" td=""><td>/ 8/1 or similar&gt;</td><td colspan="2"><munsell 1="" 5y="" 8="" or="" similar=""></munsell></td><td colspan="2"><munsell 1="" 5y="" 8="" or="" similar=""></munsell></td></munsell> | / 8/1 or similar>           | <munsell 1="" 5y="" 8="" or="" similar=""></munsell> |                             | <munsell 1="" 5y="" 8="" or="" similar=""></munsell> |                             |
| External dimension                 | on HxWxD             |                       | 1,710(1,650 without   | 1,710(1,650 without         | 1,710(1,650 without                                  | 1,710(1,650 without         | 1,710(1,650 without                                  | 1,710(1,650 without         |
|                                    |                      | mm                    | legs) x 920 x 760   | legs) x 920 x 760           | legs) x 920 x 760                                    | legs) x 920 x 760           | legs) x 920 x 760                                    | legs) x 920 x 760           |
|                                    |                      | in.                   | 67-3/8(65 without legs)   | 67-3/8(65 without legs)     | 67-3/8(65 without legs)                              | 67-3/8(65 without legs)     | 67-3/8(65 without legs)                              | 67-3/8(65 without legs)     |
|                                    |                      |                       | x 36-1/4 x 29-15/16   | x 36-1/4 x 29-15/16         | x 36-1/4 x 29-15/16                                  | x 36-1/4 x 29-15/16         | x 36-1/4 x 29-15/16                                  | x 36-1/4 x 29-15/16         |
| Protection                         | High pressure pr     | otection              | High pressure sensor  | ; High pressure switch      | High pressure sensor                                 | , High pressure switch      | High pressure sensor                                 | , High pressure switch      |
| devices                            |                      |                       | at 4.15MP   | <sup>p</sup> a (601 psi)    | at 4.15MP  | a (601 psi)                 | at 4.15MP  | a (601 psi)                 |
|                                    | Inverter circuit (CC | MP./FAN)              | Over-heat protection,   | Over-current protection     | Over-heat protection, (                              | Over-current protection     | Over-heat protection,                                | Over-current protection     |
|                                    | Compressor           |                       |   | protection                  |  | protection                  |  | protection                  |
|                                    | Fan motor            |                       | Thermal switch  | Thermal switch              | Thermal switch                                       | Thermal switch              | Thermal switch                                       | Thermal switch              |
| Refrigerant Type x original charge |                      | R410A x 9.5kg (21lbs) | R410A x 9.5kg (21lbs)   | R410A x 9.5kg (21lbs)       | R410A x 9.5kg (21lbs)                                | R410A x 9.5kg (21lbs)       | R410A x 9.5kg (21lbs)                                |                             |
| Net weight kg (lbs)                |                      | 240(530)              | 240(530)  | 240(530)                    | 240(530)   | 240(530)                    | 240(530)   |                             |
| Heat exchanger                     |                      | Salt-resistant cros   | s fin & copper tube   | Salt-resistant cros         | s fin & copper tube                                  | Salt-resistant cros         | s fin & copper tube                                  |                             |
| Pipe between unit                  | t High pressure      | mm (in.)              | 15.88(5/8) Brazed   | 15.88(5/8) Brazed           | 15.88(5/8) Brazed                                    | 19.05(3/4) Brazed           | 19.05(3/4) Brazed                                    | 19.05(3/4) Brazed           |
| and distributor                    | Low pressure         | mm (in.)              | 19.05(3/4) Brazed   | -                           | 19.05(3/4) Brazed                                    | -                           | 22.2(7/8) Brazed                                     | -                           |
| Optional parts                     |                      |                       | Outdoor Twinning  | kit: CMY-R100VBK            | Outdoor Twinning                                     | kit: CMY-R100VBK            | Outdoor Twinning                                     | kit: CMY-R100VBK            |
|                                    |                      |                       | Joint: CMY-Y102SS-G2,CM   | IY-Y102LS-G2,CMY-R160-J1    | Joint: CMY-Y102SS-G2,CM                              | Y-Y102LS-G2,CMY-R160-J1     | Joint: CMY-Y102SS-G2,CM                              | Y-Y102LS-G2,CMY-R160-J1     |
|                                    |                      |                       | Main BC controller: CMB-F   | P108,1010,1013,1016V-GA1    | Main BC controller: CMB-P                            | 108,1010,1013,1016V-GA1     | Main BC controller: CMB-F                            | 108,1010,1013,1016V-GA1     |
|                                    |                      |                       | Sub BC controller: CMB-P104   | ,108V-GB1,CMB-P1016V-HB1    | Sub BC controller: CMB-P104                          | ,108V-GB1,CMB-P1016V-HB1    | Sub BC controller: CMB-P104                          | ,108V-GB1,CMB-P1016V-HB1    |

## **OUTDOOR UNIT R2 Series** PURY-P YSJM-A(1)(-BS)

## ► Specifications

| Model                                  |                       |                    | 'SJM-A1(-BS)                            | PURY-P550YSJM-A(-BS)                    |   | PURY-P600YSJM-A(-BS)                    |   |   |
|--|-----------------------|--------------------|---|---|---|---|---|---|
| Power source                           |                       | 3-phase 4-wire 380 | -400-415V 50/60Hz                       |   | -400-415V 50/60Hz                       | 3-phase 4-wire 380-400-415V 50/60Hz     |   |   |
| Cooling capacity                       | *1                    |                    |   | 5.0                                     | 63.0                                    |   | 69.0                                    |   |
| (Nominal)                              | *1                    | BTU / h            | 191                                     | ,100                                    | 215                                     | ,000                                    | 235                                     | ,400                                    |
|  | Power input           | kW                 | 14                                      | .73                                     | 17                                      | .30                                     | 19                                      | .65                                     |
|  | Current input         | Α                  | 24.8-23                                 | 3.6-22.7                                | 29.2-27                                 | 7.7-26.7                                | 33.1-31                                 | 1.5-30.3                                |
|  | EER                   | kW / kW            | 3.                                      | 80                                      | 3.                                      | 64                                      | 3.                                      | 51                                      |
| Temp. range of                         | Indoor                | W.B.               |   | C(59~75°F)                              | 15.0~24.0°                              |   | 15.0~24.0°                              |   |
|  | Outdoor               | D.B.               |   | C(23~115°F)                             |   | C(23~115°F)                             | -5.0~46.0°C                             |   |
| Heating capacity                       | *2                    |                    |   | 3.0                                     |   | 9.0                                     |   | 6.5                                     |
| (Nominal)                              |                       | BTU / h            |   | ,000                                    |   | ,400                                    |   | ,000                                    |
| Power input                            |                       | kW                 |   | .07                                     |   | .95                                     |   | ,000                                    |
|  | Current input         | A                  |   | 4.1-23.2                                |   | 7.1-26.2                                |   | 0.5-29.4                                |
|  | COP                   | kW / kW            |   | 18                                      |   | 07                                      |   | .01                                     |
| Temp. range of                         | Indoor                | D.B.               |   | C(59~81°F)                              | 4.<br>15.0~27.0°                        |   |   | C(59~81°F)                              |
|  | Outdoor               |                    |   |   |   |   |   |   |
| Indoor unit                            |                       | W.B.               |   | °C(-4~60°F)                             |   | °C(-4~60°F)                             |   | °C(-4~60°F)                             |
|  | Total capacity        |                    |   | door unit capacity                      |   | door unit capacity                      |   | door unit capacity                      |
| connectable                            | Model / Quantity      | 1                  | P15~P2                                  | 50 / 1~50                               | P15~P2                                  | 50 / 2~50                               | P15~P2                                  | 50 / 2~50                               |
| Sound pressure le<br>(measured in anec |                       | dB <a></a>         | 6                                       | 51                                      | 6                                       | 51                                      | 6                                       | 62                                      |
| Power pressure le<br>(measured in anec |                       | dB <a></a>         | 8                                       | 31                                      | 8                                       | 31                                      | 8                                       | 32                                      |
| Refrigerant piping                     | High pressure         | mm (in.)           | 22.2(7/8                                | ) Brazed                                | 28.58(1-1                               | /8) Brazed                              | 28.58(1-1                               | /8) Brazed                              |
| diameter                               | Low pressure          | mm (in.)           |   | /8) Brazed                              | 28.58(1-1/8) Brazed                     |   |   | /8) Brazed                              |
| Set Model                              |                       |                    |   |   |   |   |   |   |
| Model                                  |                       |                    | PURY-                                   | PURY-                                   | PURY-                                   | PURY-                                   | PURY-                                   | PURY-                                   |
|  |                       |                    | P200YJM-A(-BS)                          | P300YJM-A(-BS)                          | P250YJM-A(-BS)                          | P300YJM-A(-BS)                          | P300YJM-A(-BS)                          | P300YJM-A(-BS)                          |
| FAN                                    | Type x Quantity       |                    | Propeller fan x 1                       |
|  | Air flow rate         | m³/min             | 185                                     | 185                                     | 185                                     | 185                                     | 185                                     | 185                                     |
|  | / III IIOW TOLO       | L/s                | 3,083                                   | 3.083                                   | 3.083                                   | 3,083                                   | 3.083                                   | 3.083                                   |
|  |                       | cfm                | 6.532                                   | 6.532                                   | 6.532                                   | 6.532                                   | 6.532                                   | 6.532                                   |
|  | Driving mechanis      |                    |   | rect-driven by motor                    |   | rect-driven by motor                    |   | rect-driven by motor                    |
|  | Motor output          | kW                 | 0.92 x 1                                |
| *4                                     | External static pr    |                    | 0.92 X 1<br>0 Pa (0 mmH <sub>2</sub> O) | 0.92 X 1<br>0 Pa (0 mmH <sub>2</sub> O) | 0.92 X 1<br>0 Pa (0 mmH <sub>2</sub> O) | 0.92 X 1<br>0 Pa (0 mmH <sub>2</sub> O) | 0.92 X 1<br>0 Pa (0 mmH <sub>2</sub> O) | 0.92 X 1<br>0 Pa (0 mmH <sub>2</sub> O) |
|  |                       | ess.               |   |   |   |   |   |   |
| Compressor                             | Type x Quantity       |                    |   | metic compressor                        |   | metic compressor                        |   | metic compressor                        |
|  | Starting method       |                    | Inverter                                | Inverter                                | Inverter                                | Inverter                                | Inverter                                | Inverter                                |
|  | Motor output          | kW                 | 5.4                                     | 7.8                                     | 6.8                                     | 7.8                                     | 7.8                                     | 7.8                                     |
|  | Case heater           | kW                 | 0.035(240 V)                            | 0.045(240 V)                            | 0.035(240 V)                            | 0.045(240 V)                            | 0.045(240 V)                            | 0.045(240 V)                            |
| External finish                        |                       |                    | Pre-coated galvanized steel sheets      |   |   | nized steel sheets                      | Pre-coated galvanized steel sheets      |   |
|  |                       |                    |   | ng for -BS type)                        |   | ng for -BS type)                        |   | ng for -BS type)                        |
|  |                       |                    |   | ( 8/1 or similar>                       |   | / 8/1 or similar>                       |   | / 8/1 or similar>                       |
| External dimension                     | n HxWxD               | mm                 | 1,710(1,650 without                     |   |   | 1,710(1,650 without                     | 1,710(1,650 without                     |   |
|  |                       |                    | legs) x 920 x 760                       |
|  |                       | in.                |   | 67-3/8(65 without legs)                 | 67-3/8(65 without legs)                 |   | 67-3/8(65 without legs)                 |   |
|  |                       |                    | x 36-1/4 x 29-15/16                     | x 36-1/4 x 29-15/1                      |
| Protection<br>devices                  | High pressure pr      | otection           |   | , High pressure switch                  |   | High pressure switch                    | High pressure sensor                    |   |
| uevices                                | lauratas sisterit (00 |                    |   | a (601 psi)                             |   | a (601 psi)                             |   | Pa (601 psi)                            |
|  | Inverter circuit (CO  | MP./FAN)           |   | Over-current protection                 |   | Over-current protection                 | Over-heat protection, (                 |   |
|  | Compressor            |                    |   | protection                              |   | protection                              |   | protection                              |
|  | Fan motor             |                    | Thermal switch                          |
| Refrigerant                            | Type x original cl    |                    |   |   |   |   | R410A x 9.5kg (21lbs)                   |   |
|  |                       | kg (lbs)           | 240(530)                                | 245(541)                                | 240(530)                                | 245(541)                                | 245(541)                                | 245(541)                                |
| Heat exchanger                         |                       |                    | s fin & copper tube                     |   | s fin & copper tube                     |   | s fin & copper tube                     |   |
| Pipe between unit                      |                       | mm (in.)           | 15.88(5/8) Brazed                       | 19.05(3/4) Braze                        |
| and distributor                        | Low pressure          | mm (in.)           |   | -                                       | 22.2(7/8) Brazed                        | -                                       | 22.2(7/8) Brazed                        | -                                       |
| Optional parts                         |                       |                    |   | kit: CMY-R100VBK                        | Outdoor Twinning                        | kit: CMY-R100VBK                        | Outdoor Twinning                        | kit: CMY-R100VBK                        |
|  |                       |                    |   | Y-Y102LS-G2.CMY-R160-J1                 |   | Y-Y102LS-G2,CMY-R160-J1                 | Joint: CMY-Y102SS-G2,CM                 |   |
|  |                       |                    | JUIII. GWIT-TTU233-02,GW                | 1-1102L3-02,0W1-R100-J1                 | JUIII. GIVIT-T 10255-02, GIVI           | 1 110220 02,0111 11100 01               |   |   |
|  |                       |                    |   | P108,1010,1013,1016V-GA1                |   | 108,1010,1013,1016V-GA1                 | Main BC controller: CMB-P               |   |

#### Notes:

\*1,\*2 Nominal conditions

|         | Indoor                               | Outdoor                        | Pipe length       | Level difference |
|---------|--------------------------------------|--------------------------------|-------------------|------------------|
| Cooling | 27°C DB/19°C WB<br>(81°F DB/66°F WB) | 35°C DB(95°F DB)               | 7.5m (24-9/16ft.) | 0m (0ft.)        |
| Heating | 20°C DB(68°F DB)                     | 7°C DB/6°C WB(45°F DB/43°F WB) | 7.5m (24-9/16ft.) | 0m (0ft.)        |

\*3 -5°C DB (23°F DB) / -6°C WB (21°F WB) to 21°C DB (70°F DB) / 15.5°C WB (60°F WB) with cooling/heating mixed operation.

\*4 External static pressure option is a valiable (30Pa / 3.1mmH<sub>2</sub>O, 6.1mmH<sub>2</sub>O). \*Nominal condition \*1,\*2 are subject to JIS B8615-1. \*Due to continuing improvement, above specification may be subject to change without notice.

#### Notes:

| *1,*2 Nominal con | ditions                              |                                |                   |                  |
|-------------------|--------------------------------------|--------------------------------|-------------------|------------------|
|                   | Indoor                               | Outdoor                        | Pipe length       | Level difference |
| Cooling           | 27°C DB/19°C WB<br>(81°F DB/66°F WB) | 35°C DB(95°F DB)               | 7.5m (24-9/16ft.) | 0m (0ft.)        |
| Heating           | 20°C DB(68°F DB)                     | 7°C DB/6°C WB(45°F DB/43°F WB) | 7.5m (24-9/16ft.) | 0m (0ft.)        |

\*3 -5°C DB (23°F DB) / -6°C WB (21°F WB) to 21°C DB (70°F DB) / 15.5°C WB (60°F WB) with cooling/heating mixed operation. 4 External static pressure option is available (30Pa / 3.1mmH<sub>2</sub>O, 6.1mmH<sub>2</sub>O).
 \*Nominal condition \*1,\*2 are subject to JIS B8615-1.
 \*Due to continuing improvement, above specification may be subject to change without notice.

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## **OUTDOOR UNIT R2 Series** PURY-P YSJM-A(1)(-BS)

## ► Specifications

Model



|  |  | FORT-FOOTSSM-AT(-DS)   | FORT-F050155W-A(-D5)   | FOR 1-F700135M-A(-D3)   |
|--|--|--|--|---|
|  |  | 3-phase 4-wire 380-400-415V 50/60Hz  | 3-phase 4-wire 380-400-415V 50/60Hz  | 3-phase 4-wire 380-400-415V 50/60Hz   |
| *1   | kW   | 69.0   | 73.0   | 80.0  |
| *1   | BTU / h  | 235,400  | 249,100  | 273,000   |
| Power input  | kW   | 19.16  | 21.53  | 23.95   |
| Current input  | A  | 32.3-30.7-29.6   | 36.3-34.5-33.2   | 40.4-38.4-37.0  |
| EER  | kW / kW  | 3.60   | 3.39   | 3.34  |
| Indoor   | W.B.   | 15.0~24.0°C(59~75°F)   | 15.0~24.0°C(59~75°F)   | 15.0~24.0°C(59~75°F)  |
| Outdoor  | D.B.   | -5.0~46.0°C(23~115°F)  | -5.0~46.0°C(23~115°F)  | -5.0~46.0°C(23~115°F)   |
| *2   | kW   | 76.5   | 81.5   | 88.0  |
| *2   | BTU / h  | 261,000  | 278,100  | 300,300   |
| Power input  | kW   | 18.61  | 20.47  | 22.33   |
| Current input  | A  | 31.4-29.8-28.7   | 34.5-32.8-31.6   | 37.6-35.8-34.5  |
| COP  | kW / kW  | 4.11   | 3.98   | 3.94  |
| Indoor   | D.B.   | 15.0~27.0°C(59~81°F)   | 15.0~27.0°C(59~81°F)   | 15.0~27.0°C(59~81°F)  |
| Outdoor  | W.B.   | -20.0~15.5°C(-4~60°F)  | -20.0~15.5°C(-4~60°F)  | -20.0~15.5°C(-4~60°F)   |
| Total capacity   |  | 50~150 % of outdoor unit capacity  | 50~150 % of outdoor unit capacity  | 50~150 % of outdoor unit capacity   |
| Model / Quantity   |  | P15~P250 / 2~50  | P15~P250 / 2~50  | P15~P250 / 2~50   |
| Sound pressure level<br>(measured in anechoic room) dB </td <td>62</td> <td>62.5</td> <td>63</td>                  |  | 62   | 62.5   | 63  |
| Power pressure level<br>(measured in anechoic room) dB <   |  | 82   | 82.5   | 83  |
| High pressure  | mm (in.)   | 28.58(1-1/8) Brazed  | 28.58(1-1/8) Brazed  | 28.58(1-1/8) Brazed   |
| Refrigerant piping         High pressure         mm (in.)           diameter         Low pressure         mm (in.) |  | 28.58(1-1/8) Brazed  | 28.58(1-1/8) Brazed  | 34.93(1-3/8) Brazed   |
|  | Current input<br>EER<br>Indoor<br>Outdoor<br>*2<br>*2<br>Power input<br>Current input<br>COP<br>Indoor<br>Outdoor<br>Total capacity<br>Model / Quantity<br>vel<br>choic room)<br>vel<br>choic room)<br>High pressure | *1         BTU / h           Power input         KW           Current input         A           EER         kW / kW           Indoor         D.B.           Outdoor         D.B.           Yearent input         A           *2         BTU / h           Power input         kW           COP         kW / kW           Corent input         A           COP         kW / kW           Indoor         D.B.           Outdoor         D.B.           Outdoor         D.B.           Outdoor         D.B.           Outdoor         W.B.           Total capacity         Model / Quantity           vel         dB <a>           choic room)         dB <a>           High pressure         mm (in.)</a></a> | 3-phase 4-wire 380-400-415V 50/60Hz           *1         kW         69.0           *1         BTU / h         235,400           Power input         kW         19.16           Current input         A         32.3-30.7-29.6           EER         kW / kW         36.0           Indoor         W.B.         15.0-24.0°C(59-75°F)           Outdoor         D.B.         -5.0~46.0°C(23~115°F)           *2         KW         76.5           *2         BTU / h         261,000           Power input         KW         18.61           Current input         A         31.4-29.8-28.7           COP         kW / kW         4.11           Indoor         D.B.         15.0-27.0°C(59-81°F)           Outdoor         D.B.         15.0-27.0°C(59-81°F)           Outdoor         W.B.         -20.0-15.5°C(-4-60°F)           Total capacity         50-150 % of outdoor unit capacity           Model / Quantity         P15-P250 / 2-50           vel         62           choic room)         dB <a>           82         82           High pressure         mm (in.)         28.58(1-1/8) Brazed  </a> | 3-phase 4-wire 380-400-415V 50/60Hz         3-phase 4-wire 380-400-415V 50/60Hz           *1         kW         69.0         73.0           *1         BTU / h         235,400         249,100           Power input         kW         19.16         21.53           Current input         A         32.3-30.7-29.6         36.3-34.5-33.2           EER         kW / kW         3.60         3.39           Indoor         W.B.         15.0-24.0°C (59-75°F)         15.0-24.0°C (59-75°F)           Outdoor         D.B.         -5.0-46.0°C (23-115°F)         -5.0-46.0°C (23-115°F)           *2         kW         76.5         81.5           *2         kW         18.61         20.47           Current input         A         31.4-29.8-28.7         34.5-32.8-31.6           COP         kW / kW         4.11         3.98           Indoor         D.B.         15.0-27.0°C (59-81°F)         15.0-27.0°C (59-81°F)           Outdoor         D.B.         15.0-27.0°C (59-81°F)         15.0-27.0°C (59-81°F)           Outdoor         W.B.         -20.0-15.5°C (-4-60°F)         -20.0-15.5°C (-4-60°F)           Outdoor         W.B.         -20.0-15.5°C (-4-60°F)         -20.0-15.0°C (-4-60°F)           Outdor< |

| Model            |                      |                     | PURY-<br>P250YJM-A(-BS)   | PURY-<br>P350YJM-A(-BS)     |   | PURY-<br>P350YJM-A(-BS)     | PURY-<br>P300YJM-A(-BS)                                       | PURY-<br>P400YJM-A(-BS)     |
|------------------|----------------------|---------------------|---|-----------------------------|---|-----------------------------|---|-----------------------------|
| FAN              | Type x Quantity      |                     | Propeller fan x 1   | Propeller fan x 1           | Propeller fan x 1   | Propeller fan x 1           | Propeller fan x 1   | Propeller fan x 1           |
|                  | Air flow rate        | m³/min              | 185   | 225                         | 185   | 225                         | 185   | 225                         |
|                  |                      | L/s                 | 3.083   | 3.750                       | 3.083   | 3.750                       | 3.083   | 3,750                       |
|                  |                      | cfm                 | 6.532   | 7.945                       | 6.532   | 7.945                       | 6.532   | 7,945                       |
|                  | Driving mechanis     |                     | - ,   | rect-driven by motor        |   | rect-driven by motor        |   | rect-driven by motor        |
|                  | Motor output         | kW                  | 0.92 x 1  | 0.92 x 1                    | 0.92 x 1  | 0.92 x 1                    | 0.92 x 1  | 0.92 x 1                    |
|                  | *4 External static p | ess.                | 0 Pa (0 mmH <sub>2</sub> O)   | 0 Pa (0 mmH <sub>2</sub> O) | 0 Pa (0 mmH <sub>2</sub> O)   | 0 Pa (0 mmH <sub>2</sub> O) | 0 Pa (0 mmH <sub>2</sub> O)                                   | 0 Pa (0 mmH <sub>2</sub> O) |
| Compressor       | Type x Quantity      |                     | Inverter scroll her   | metic compressor            |   | metic compressor            | Inverter scroll her   | metic compressor            |
| •                | Starting method      |                     | Inverter  | Inverter                    | Inverter  | Inverter                    | Inverter  | Inverter                    |
|                  | Motor output         | kW                  | 6.8   | 9.9                         | 7.8   | 9.9                         | 7.8   | 10.2                        |
|                  | Case heater          | kW                  | 0.035(240 V)  | 0.045(240 V)                | 0.045(240 V)  | 0.045(240 V)                | 0.045(240 V)  | 0.045(240 V)                |
| External finish  |                      |                     | Pre-coated galva  | nized steel sheets          | Pre-coated galva  | nized steel sheets          | Pre-coated galva  | nized steel sheets          |
|                  |                      |                     | (+powder coati  | ng for -BS type)            | (+powder coating for -BS type)  |                             | (+powder coating for -BS type)                                |                             |
|                  |                      |                     | <munsell 51<="" td=""><td>/ 8/1 or similar&gt;</td><td><munsell 5y<="" td=""><td>/ 8/1 or similar&gt;</td><td><munsell 51<="" td=""><td>/ 8/1 or similar&gt;</td></munsell></td></munsell></td></munsell> | / 8/1 or similar>           | <munsell 5y<="" td=""><td>/ 8/1 or similar&gt;</td><td><munsell 51<="" td=""><td>/ 8/1 or similar&gt;</td></munsell></td></munsell> | / 8/1 or similar>           | <munsell 51<="" td=""><td>/ 8/1 or similar&gt;</td></munsell> | / 8/1 or similar>           |
| External dimensi | ion HxWxD            |                     | 1,710(1,650 without   | 1,710(1,650 without         | 1,710(1,650 without   | 1,710(1,650 without         | 1,710(1,650 without   | 1,710(1,650 without         |
|                  |                      | mm                  | legs) x 920 x 760   | legs) x 1,220 x 760         | legs) x 920 x 760   | legs) x 1,220 x 760         | legs) x 920 x 760   | legs) x 1,220 x 760         |
|                  |                      | in.                 | 67-3/8(65 without legs) x   | 67-3/8(65 without legs) x   | 67-3/8(65 without legs) x   | 67-3/8(65 without legs) x   | 67-3/8(65 without legs) x                                     | 67-3/8(65 without legs) x   |
|                  |                      | in.                 | 36-1/4 x 29-15/16   | 48-1/16 x 29-15/16          | 36-1/4 x 29-15/16   | 48-1/16 x 29-15/16          | 36-1/4 x 29-15/16   | 48-1/16 x 29-15/16          |
| Protection       | High pressure pr     | otection            | High pressure sensor  | ; High pressure switch      | High pressure sensor  | ; High pressure switch      | High pressure sensor  | , High pressure switch      |
| devices          |                      |                     | at 4.15MP   | Pa (601 psi)                | at 4.15MP   | a (601 psi)                 | at 4.15MP   | a (601 psi)                 |
|                  | Inverter circuit (CC | MP./FAN)            | Over-heat protection,   | Over-current protection     | Over-heat protection,   | Over-current protection     | Over-heat protection,   | Over-current protection     |
|                  | Compressor           |                     |   | protection                  |   | protection                  |   | protection                  |
|                  | Fan motor            |                     | Thermal switch  | Thermal switch              | Thermal switch  | Thermal switch              | Thermal switch  | Thermal switch              |
| Refrigerant      | Type x original c    | harge               | R410A x 9.5kg (21lbs)   | R410A x 11.8kg (27lbs)      | R410A x 9.5kg (21lbs)   | R410A x 11.8kg (27lbs)      | R410A x 9.5kg (21lbs)   | R410A x 11.8kg (27lbs)      |
| Net weight       |                      | kg (lbs)            | 240(530)  | 270(596)                    | 245(541)  | 270(596)                    | 245(541)  | 270(596)                    |
| Heat exchanger   |                      | Salt-resistant cros | s fin & copper tube   | Salt-resistant cros         | s fin & copper tube   | Salt-resistant cros         | s fin & copper tube   |                             |
| Pipe between un  | it High pressure     | mm (in.)            | 19.05(3/4) Brazed   | 19.05(3/4) Brazed           | 19.05(3/4) Brazed   | 19.05(3/4) Brazed           | 19.05(3/4) Brazed   | 22.2(7/8) Brazed            |
| and distributor  | Low pressure         | mm (in.)            | 22.2(7/8) Brazed  | -                           | 22.2(7/8) Brazed  | -                           | 22.2(7/8) Brazed  | -                           |
| Optional parts   |                      |                     |   | kit: CMY-R100VBK            | Outdoor Twinning  | kit: CMY-R100VBK            | Outdoor Twinning  | kit: CMY-R200VBK            |
|                  |                      |                     | Joint: CMY-Y102SS-G2,CM   | IY-Y102LS-G2,CMY-R160-J1    |   | Y-Y102LS-G2,CMY-R160-J1     | Joint: CMY-Y102SS-G2,CM                                       | Y-Y102LS-G2,CMY-R160-J1     |
|                  |                      |                     | Main BC controller: CMB-F   | P108,1010,1013,1016V-GA1    | Main BC controller: CMB-P   | P108,1010,1013,1016V-GA1    | Main BC controller  | : CMB-P1016V-HA1            |
|                  |                      |                     | Sub BC controller: CMB-P104   | ,108V-GB1,CMB-P1016V-HB1    | Sub BC controller: CMB-P104   | ,108V-GB1,CMB-P1016V-HB1    | Sub BC controller: CMB-P104                                   | ,108V-GB1,CMB-P1016V-HB1    |

## OUTDOOR UNIT R2 Series PURY-P YSJM-A(1)(-BS)

## ► Specifications

| Model              |                       |               | PURY-P700Y  | SJM-A1(-BS)                 | PURY-P750   | (SJM-A(-BS)                 | PURY-P800  | YSJM-A(-BS)                |
|--------------------|-----------------------|---------------|---|-----------------------------|---|-----------------------------|--|----------------------------|
| Power source       |                       |               | 3-phase 4-wire 380  | -400-415V 50/60Hz           | 3-phase 4-wire 380  | -400-415V 50/60Hz           | 3-phase 4-wire 380   | -400-415V 50/60Hz          |
| Cooling capacity   | *1                    | kW            | . 80  | 0.0                         |   | 5.0                         |  | 0.0                        |
| (Nominal)          | *1                    | BTU / h       | 273   | .000                        |   | .000                        | 307  | .100                       |
| ```                | Power input           | kW            | 23  | .39                         | 26  | .47                         | 28   | .30                        |
|                    | Current input         | A             |   | 7.5-36.1                    |   | 2.4-40.9                    |  | 5.3-43.7                   |
|                    | EER                   | kW / kW       |   | 42                          | 3.  |                             |  | 18                         |
| Temp. range of     | Indoor                | W.B.          |   | -2<br>C(59~75°F)            | 15.0~24.0°  |                             |  | C(59~75°F)                 |
|                    | Outdoor               | D.B.          |   | C(23~115°F)                 |   | C(23~115°F)                 |  | C(23~115°F)                |
| Heating capacity   | *2                    |               |   | 3.0                         |   | 5.0                         |  | 0.0                        |
|                    |                       | BTU / h       |   |                             |   |                             |  |                            |
| (Nominal)          |                       |               |   | ,300                        |   | ,100                        |  | ,200                       |
|                    | Power input           | kW            |   | .78                         |   | .05                         |  | .04                        |
|                    | Current input         | A             |   | 4.9-33.6                    |   | 3.5-37.1                    |  | 1.7-40.2                   |
|                    | COP                   | kW / kW       |   | 04                          |   | 95                          |  | 84                         |
| Temp. range of     | Indoor                | D.B.          |   | C(59~81°F)                  | 15.0~27.0°  |                             |  | C(59~81°F)                 |
|                    | Outdoor               | W.B.          | -20.0~15.5  | °C(-4~60°F)                 | -20.0~15.5  | °C(-4~60°F)                 | -20.0~15.5   | °C(-4~60°F)                |
| Indoor unit        | Total capacity        |               | 50~150 % of out   | door unit capacity          | 50~150 % of out   | door unit capacity          | 50~150 % of out  | door unit capacity         |
| connectable        | Model / Quantity      |               | P15~P2  | 50 / 2~50                   | P15~P2  | 50 / 2~50                   | P15~P2   | 50 / 2~50                  |
| Sound pressure le  |                       | dB <a></a>    |   | 3                           |   | 3.5                         |  | 64                         |
| (measured in anec  | hoic room)            | ud <a></a>    | C   | 10                          | 6.  |                             | C  |                            |
| Power pressure le  | vel                   | ^ <b>D</b>    |   | 0                           |   |                             |  |                            |
| (measured in anec  | hoic room)            | dB <a></a>    | 8   | 3                           | 83  | 3.5                         | 8  | 34                         |
| Refrigerant piping | High pressure         | mm (in.)      | 28.58(1-1   | /8) Brazed                  | 28.58(1-1   | (8) Brazed                  | 28,58(1-1  | /8) Brazed                 |
| diameter           | Low pressure          | mm (in.)      |   | /8) Brazed                  | 34.93(1-3/8) Brazed   |                             |  | /8) Brazed                 |
| Set Model          | 2011 procedie         | /             | 01.00(10  | 10) 210200                  | 04.00(1 0/0) Diazed   |                             | 0 1.00(1 0   | 10/ 214204                 |
| Model              |                       |               | PURY-   | PURY-                       | PURY-   | PURY-                       | PURY-  | PURY-                      |
| mouer              |                       |               | P350YJM-A(-BS)  | P350YJM-A(-BS)              | P350YJM-A(-BS)  | P400YJM-A(-BS)              | P400YJM-A(-BS)   | P400YJM-A(-BS)             |
| FAN                | Type x Quantity       |               | Propeller fan x 1   | Propeller fan x 1           | Propeller fan x 1   | Propeller fan x 1           | Propeller fan x 1  | Propeller fan x 1          |
|                    | Air flow rate         | m³/min        | 225   | 225                         | 225   | 225                         | 225  | 225                        |
|                    | All now rate          | L/s           | 3,750   | 3,750                       | 3,750   | 3,750                       | 3,750  | 3,750                      |
|                    |                       | -             | 7.945   | 7.945                       | 7.945   | 7.945                       | 7.945  | 7.945                      |
|                    | Driving and the state | cfm           |   |                             |   |                             |  |                            |
|                    | Driving mechanis      |               |   | rect-driven by motor        |   | ect-driven by motor         |  | rect-driven by motor       |
|                    | Motor output          | kW            | 0.92 x 1  | 0.92 x 1                    | 0.92 x 1  | 0.92 x 1                    | 0.92 x 1   | 0.92 x 1                   |
|                    | External static pr    | ess.          | 0 Pa (0 mmH <sub>2</sub> O)   | 0 Pa (0 mmH <sub>2</sub> O) | 0 Pa (0 mmH <sub>2</sub> O)   | 0 Pa (0 mmH <sub>2</sub> O) | 0 Pa (0 mmH <sub>2</sub> O)  | 0 Pa (0 mmH <sub>2</sub> O |
| Compressor         | Type x Quantity       |               |   | metic compressor            |   | metic compressor            |  | metic compressor           |
|                    | Starting method       |               | Inverter  | Inverter                    | Inverter  | Inverter                    | Inverter   | Inverter                   |
|                    | Motor output          | kW            | 9.9   | 9.9                         | 9.9   | 10.2                        | 10.2   | 10.2                       |
|                    | Case heater           | kW            | 0.045(240 V)  | 0.045(240 V)                | 0.045(240 V)  | 0.045(240 V)                | 0.045(240 V)   | 0.045(240 V)               |
| External finish    |                       |               | Pre-coated galva  | nized steel sheets          | Pre-coated galva  | nized steel sheets          | Pre-coated galva   | nized steel sheets         |
|                    |                       |               | (+powder coati  | ng for -BS type)            | (+powder coati  | ng for -BS type)            | (+powder coati   | ng for -BS type)           |
|                    |                       |               | <munsell 51<="" td=""><td>/ 8/1 or similar&gt;</td><td><munsell 5y<="" td=""><td>8/1 or similar&gt;</td><td><munsell 51<="" td=""><td>/ 8/1 or similar&gt;</td></munsell></td></munsell></td></munsell> | / 8/1 or similar>           | <munsell 5y<="" td=""><td>8/1 or similar&gt;</td><td><munsell 51<="" td=""><td>/ 8/1 or similar&gt;</td></munsell></td></munsell> | 8/1 or similar>             | <munsell 51<="" td=""><td>/ 8/1 or similar&gt;</td></munsell>      | / 8/1 or similar>          |
| External dimension | n HxWxD               |               | 1,710(1,650 without   | 1,710(1,650 without         | 1,710(1,650 without   | 1,710(1,650 without         | 1,710(1,650 without  | 1,710(1,650 with           |
|                    |                       | mm            | legs) x 1,220 x 760   | legs) x 1,220 x 760         | legs) x 1,220 x 760   | legs) x 1,220 x 760         | legs) x 1,220 x 760  | legs) x 1,220 x 76         |
|                    |                       |               | 67-3/8(65 without leas)   | 67-3/8(65 without legs)     | 67-3/8(65 without legs)   | 67-3/8(65 without legs)     | 67-3/8(65 without legs)  | 67-3/8(65 without le       |
|                    |                       | in.           | x 48-1/16 x 29-15/16  |                             | x 48-1/16 x 29-15/16  | x 48-1/16 x 29-15/16        | x 48-1/16 x 29-15/16   | x 48-1/16 x 29-15/         |
| Protection         | High pressure pr      | otection      |   | , High pressure switch      |   |                             |  |                            |
| devices            | riigii procodio pr    | 01001.011     |   | a (601 psi)                 |   | a (601 psi)                 | High pressure sensor, High pressure switch<br>at 4.15MPa (601 psi) |                            |
| 0011000            | Inverter circuit (CO  | MP (FAN)      |   | Over-current protection     |   | Over-current protection     | Over-heat protection,  |                            |
|                    | Compressor            | WI ./ / / (N) |   | protection                  |   | protection                  |  | protection                 |
|                    | Fan motor             |               | Thermal switch  | Thermal switch              | Thermal switch  | Thermal switch              | Thermal switch   | Thermal switch             |
| Defrigerent        |                       |               |   |                             |   |                             |  |                            |
| Refrigerant        | Type x original ch    |               |   |                             | R410A x 11.8kg (27lbs)  |                             |  |                            |
| Net weight         |                       | kg (lbs)      | 270(596)  | 270(596)                    | 270(596)  | 270(596)                    | 270(596)   | 270(596)                   |
| Heat exchanger     |                       |               |   | s fin & copper tube         |   | s fin & copper tube         |  | s fin & copper tube        |
| Pipe between unit  |                       | mm (in.)      | 19.05(3/4) Brazed   | 19.05(3/4) Brazed           | 19.05(3/4) Brazed   | 22.2(7/8) Brazed            | 22.2(7/8) Brazed   | 22.2(7/8) Braze            |
| and distributor    | Low pressure          | mm (in.)      |   |                             | 28.58(1-1/8) Brazed   | -                           | 28.58(1-1/8) Brazed  | -                          |
| Optional parts     |                       |               | Outdoor Twinning  | kit: CMY-R200VBK            | Outdoor Twinning  | kit: CMY-R200VBK            |  | kit: CMY-R200VBK           |
|                    |                       |               | Joint: CMY-Y102SS-G2,CM   | Y-Y102LS-G2,CMY-R160-J1     | Joint: CMY-Y102SS-G2,CM   | Y-Y102LS-G2,CMY-R160-J1     | Joint: CMY-Y102SS-G2,CM  | Y-Y102LS-G2,CMY-R160-      |
|                    |                       |               |   |                             |   |                             |  |                            |
|                    |                       |               | Main BC controller  | : CMB-P1016V-HA1            | Main BC controller  | CMB-P1016V-HA1              | Main BC controller   | : CMB-P1016V-HA1           |

#### Notes:

\*1,\*2 Nominal conditions

|         | Indoor                               | Outdoor                        | Pipe length       | Level difference |
|---------|--------------------------------------|--------------------------------|-------------------|------------------|
| Cooling | 27°C DB/19°C WB<br>(81°F DB/66°F WB) | 35°C DB(95°F DB)               | 7.5m (24-9/16ft.) | 0m (0ft.)        |
| Heating | 20°C DB(68°F DB)                     | 7°C DB/6°C WB(45°F DB/43°F WB) | 7.5m (24-9/16ft.) | 0m (0ft.)        |

\*3 -5°C DB (23°F DB) / -6°C WB (21°F WB) to 21°C DB (70°F DB) / 15.5°C WB (60°F WB) with cooling/heating mixed operation.

\*4 External static pressure option is a valiable (30Pa / 3.1mmH<sub>2</sub>O, 6.1mmH<sub>2</sub>O). \*Nominal condition \*1,\*2 are subject to JIS B8615-1. \*Due to continuing improvement, above specification may be subject to change without notice.



#### Notes:

| *1, | 2 Nominal condition | ns                                   |                                |                   |                  |
|-----|---------------------|--------------------------------------|--------------------------------|-------------------|------------------|
|     |                     | Indoor                               | Outdoor                        | Pipe length       | Level difference |
|     | Cooling             | 27°C DB/19°C WB<br>(81°F DB/66°F WB) | 35°C DB(95°F DB)               | 7.5m (24-9/16ft.) | 0m (0ft.)        |
|     | Heating             | 20°C DB(68°F DB)                     | 7°C DB/6°C WB(45°F DB/43°F WB) | 7.5m (24-9/16ft.) | 0m (0ft.)        |

\*3 -5°C DB (23°F DB) / -6°C WB (21°F WB) to 21°C DB (70°F DB) / 15.5°C WB (60°F WB) with cooling/heating mixed operation. 4 External static pressure option is available (30Pa / 3.1mmH<sub>2</sub>O, 6.1mmH<sub>2</sub>O).
 \*Nominal condition \*1,\*2 are subject to JIS B8615-1.
 \*Due to continuing improvement, above specification may be subject to change without notice.



Outdoor unit



## OUTDOOR UNIT R2 Series PURY-P YSJM-A(1) (-BS) ► Specifications

| -    | - | - |  |
|------|---|---|--|
| <br> |   |   |  |
| 南    |   |   |  |

| Model  |                  | PURY-P800YSJM-A1(-BS) | PURY-P850YSJM-A(-BS)                | PURY-P900YSJM-A(-BS)                |                                     |
|--|------------------|-----------------------|-------------------------------------|-------------------------------------|-------------------------------------|
| Power source   |                  |                       | 3-phase 4-wire 380-400-415V 50/60Hz | 3-phase 4-wire 380-400-415V 50/60Hz | 3-phase 4-wire 380-400-415V 50/60Hz |
| Cooling capacity   | *1               | kW                    | 90.0                                | 96.0                                | 101.0                               |
| (Nominal)  | *1               | BTU / h               | 307,100                             | 327,600                             | 344,600                             |
|  | Power input      | kW                    | 26.62                               | 29.26                               | 30.23                               |
|  | Current input    | A                     | 44.9-42.6-41.1                      | 49.3-46.9-45.2                      | 51.0-48.4-46.7                      |
|  | EER              | kW / kW               | 3.38                                | 3.28                                | 3.34                                |
| Temp. range of   | Indoor           | W.B.                  | 15.0~24.0°C(59~75°F)                | 15.0~24.0°C(59~75°F)                | 15.0~24.0°C(59~75°F)                |
| cooling *3   | Outdoor          | D.B.                  | -5.0~46.0°C(23~115°F)               | -5.0~46.0°C(23~115°F)               | -5.0~46.0°C(23~115°F)               |
| Heating capacity   | *2               | kW                    | 100.0                               | 108.0                               | 113.0                               |
| (Nominal)  | *2               | BTU / h               | 341,200                             | 368,500                             | 385,600                             |
|  | Power input      | kW                    | 25.77                               | 28.42                               | 30.05                               |
|  | Current input    | A                     | 43.5-41.3-39.8                      | 47.9-45.5-43.9                      | 50.7-48.1-46.4                      |
|  | COP              | kW / kW               | 3.88                                | 3.80                                | 3.76                                |
| Temp. range of   | Indoor           | D.B.                  | 15.0~27.0°C(59~81°F)                | 15.0~27.0°C(59~81°F)                | 15.0~27.0°C(59~81°F)                |
| heating *3   | Outdoor          | W.B.                  | -20.0~15.5°C(-4~60°F)               | -20.0~15.5°C(-4~60°F)               | -20.0~15.5°C(-4~60°F)               |
| Indoor unit  | Total capacity   |                       | 50~150 % of outdoor unit capacity   | 50~150 % of outdoor unit capacity   | 50~150 % of outdoor unit capacity   |
| connectable  | Model / Quantity |                       | P15~P250 / 2~50                     | P15~P250 / 2~50                     | P15~P250 / 2~50                     |
| Sound pressure level<br>(measured in anechoic room) dB <a< td=""><td>dB <a></a></td><td>64</td><td>64.5</td><td>65</td></a<> |                  | dB <a></a>            | 64                                  | 64.5                                | 65                                  |
| Power pressure level<br>(measured in anechoic room)  |                  | dB <a></a>            | 84                                  | 84.5                                | 85                                  |
| Refrigerant piping   | High pressure    | mm (in.)              | 28.58(1-1/8) Brazed                 | 28.58(1-1/8) Brazed                 | 28.58(1-1/8) Brazed                 |
| diameter   | Low pressure     | mm (in.)              | 34.93(1-3/8) Brazed                 | 41.28(1-5/8) Brazed                 | 41.28(1-5/8) Brazed                 |

| Set Model<br>Model |                      |                     | PURY-  | PURY-                       | PURY-                          | PURY-                       | PURY-   | PURY-                       |
|--------------------|----------------------|---------------------|--|-----------------------------|--------------------------------|-----------------------------|---|-----------------------------|
| wodei              |                      |                     | PURT-<br>P350YJM-A(-BS)  | PURY-<br>P450YJM-A(-BS)     | PURY-<br>P400YJM-A(-BS)        | PURY-<br>P450YJM-A(-BS)     | PURY-<br>P450YJM-A(-BS)                                       | PURT-<br>P450YJM-A(-BS)     |
| FAN                | Type x Quantity      |                     | Propeller fan x 1  | Propeller fan x 2           | Propeller fan x 1              | Propeller fan x 2           | Propeller fan x 2   | Propeller fan x 2           |
|                    | Air flow rate        | m³/min              | 225  | 360                         | 225                            | 360                         | 360   | 360                         |
| Air flow rate      |                      | L/s                 | 3.750  | 6.000                       | 3.750                          | 6,000                       | 6,000   | 6,000                       |
|                    |                      | cfm                 | 7.945  | 12.712                      | 7,945                          | 12,712                      | 12.712  | 12,712                      |
|                    | Driving mechania     | -                   | Inverter-control, Direct-driven by motor   |                             | 12 2                           | rect-driven by motor        | ,   | ect-driven by motor         |
|                    | Motor output         | kW                  | 0.92 x 1   | 0.92 x 2                    | 0.92 x 1                       | 0.92 x 2                    | 0.92 x 2  | 0.92 x 2                    |
| *4                 | -                    | ess.                | 0 Pa (0 mmH <sub>2</sub> O)  | 0 Pa (0 mmH <sub>2</sub> O) | 0 Pa (0 mmH <sub>2</sub> O)    | 0 Pa (0 mmH <sub>2</sub> O) | 0 Pa (0 mmH <sub>2</sub> O)                                   | 0 Pa (0 mmH <sub>2</sub> O) |
| Compressor         | Type x Quantity      |                     |  | metic compressor            |                                | metic compressor            |   | metic compressor            |
|                    | Starting method      |                     | Inverter   | Inverter                    | Inverter                       | Inverter                    | Inverter  | Inverter                    |
|                    | Motor output         | kW                  | 9.9  | 11.6                        | 10.2                           | 11.6                        | 11.6  | 11.6                        |
|                    | Case heater          | kW                  | 0.045(240 V)   | 0.045(240 V)                | 0.045(240 V)                   | 0.045(240 V)                | 0.045(240 V)  | 0.045(240 V)                |
| External finish    |                      |                     | Pre-coated galva   | nized steel sheets          | Pre-coated galva               | nized steel sheets          | Pre-coated galvanized steel sheets                            |                             |
|                    |                      |                     | (+powder coating for -BS type)   |                             | (+powder coating for -BS type) |                             | (+powder coating for -BS type)                                |                             |
|                    |                      |                     | <munsell 5<="" td=""><td>/ 8/1 or similar&gt;</td><td></td><td>/ 8/1 or similar&gt;</td><td><munsell 51<="" td=""><td>/ 8/1 or similar&gt;</td></munsell></td></munsell> | / 8/1 or similar>           |                                | / 8/1 or similar>           | <munsell 51<="" td=""><td>/ 8/1 or similar&gt;</td></munsell> | / 8/1 or similar>           |
| External dimension | n HxWxD              |                     | 1,710(1,650 without  | 1,710(1,650 without         | 1,710(1,650 without            | 1,710(1,650 without         | 1,710(1,650 without   | 1,710(1,650 withou          |
|                    |                      | mm                  | legs) x 1,220 x 760  | legs) x 1,750 x 760         | legs) x 1,220 x 760            | legs) x 1,750 x 760         | legs) x 1,750 x 760   | legs) x 1,750 x 760         |
|                    |                      | in                  | 67-3/8(65 without legs)  | 67-3/8(65 without legs)     | 67-3/8(65 without legs)        | 67-3/8(65 without legs)     | 67-3/8(65 without legs)                                       | 67-3/8(65 without legs      |
|                    |                      | in.                 | x 48-1/16 x 29-15/16   | x 68-15/16 x 29-15/16       | x 48-1/16 x 29-15/16           | x 68-15/16 x 29-15/16       | x 68-15/16 x 29-15/16   | x 68-15/16 x 29-15/16       |
| Protection         | High pressure pr     | otection            | High pressure sensor   | ; High pressure switch      | High pressure sensor           | ; High pressure switch      | High pressure sensor  | , High pressure switc       |
| devices            |                      |                     | at 4.15MP  | Pa (601 psi)                | at 4.15MP                      | a (601 psi)                 | at 4.15MP   | a (601 psi)                 |
|                    | Inverter circuit (CC | MP./FAN)            | Over-heat protection,  | Over-current protection     | Over-heat protection,          | Over-current protection     | Over-heat protection,   | Over-current protectio      |
|                    | Compressor           |                     | Over-heat  | protection                  | Over-heat                      | protection                  | Over-heat   | protection                  |
|                    | Fan motor            |                     | Thermal switch   | Thermal switch              | Thermal switch                 | Thermal switch              | Thermal switch  | Thermal switch              |
| Refrigerant        | Type x original c    | narge               | R410A x 11.8kg (27lbs)   | R410A x 11.8kg (27lbs)      | R410A x 11.8kg (27lbs)         | R410A x 11.8kg (27lbs)      | R410A x 11.8kg (27lbs)  | R410A x 11.8kg (27lbs       |
| Net weight         | Net weight kg (lbs)  |                     | 270(596)   | 320(706)                    | 270(596)                       | 320(706)                    | 320(706)  | 320(706)                    |
| Heat exchanger     |                      | Salt-resistant cros | s fin & copper tube  | Salt-resistant cros         | s fin & copper tube            | Salt-resistant cros         | s fin & copper tube   |                             |
| Pipe between unit  | High pressure        | mm (in.)            | 19.05(3/4) Brazed  | 22.2(7/8) Brazed            | 22.2(7/8) Brazed               | 22.2(7/8) Brazed            | 22.2(7/8) Brazed  | 22.2(7/8) Brazed            |
| and distributor    | Low pressure         | mm (in.)            | 28.58(1-1/8) Brazed  | -                           | 28.58(1-1/8) Brazed            | -                           | 28.58(1-1/8) Brazed   | -                           |
| Optional parts     |                      |                     | Outdoor Twinning k   | it: CMY-R100XLVBK           | Outdoor Twinning k             | it: CMY-R200XLVBK           | Outdoor Twinning k  | it: CMY-R200XLVBK           |
|                    |                      |                     | Joint: CMY-Y102SS-G2,CM  | IY-Y102LS-G2,CMY-R160-J1    | Joint: CMY-Y102SS-G2,CM        | IY-Y102LS-G2,CMY-R160-J1    | Joint: CMY-Y102SS-G2,CM                                       | Y-Y102LS-G2,CMY-R160-J1     |
|                    |                      |                     | Main BC controller   | : CMB-P1016V-HA1            | Main BC controller             | : CMB-P1016V-HA1            | Main BC controller  | CMB-P1016V-HA1              |
|                    |                      |                     | Sub BC controller: CMB-P104  | 108V-GB1.CMB-P1016V-HB1     | Sub BC controller: CMB-P104    | .108V-GB1.CMB-P1016V-HB1    | Sub BC controller: CMB-P104                                   | .108V-GB1.CMB-P1016V-HB     |

## OUTDOOR UNIT R2 Series - High COP PURY-EP YJM-A(-BS)

## ► Specifications

| Model                              |                      |               | PURY-EP200YJM-A(-BS)                                 | PURY-EP250YJM-A(-BS)                                 | PURY-EP300YJM-A(-BS)                                 | PURY-EP350YJM-A(-BS)                                 |
|------------------------------------|----------------------|---------------|--|--|--|--|
| Power source                       |                      |               | 3-phase 4-wire 380-400-415V 50/60Hz                  |
| Cooling capacity                   | *1                   | kW            | 22.4   | 28.0   | 33.5   | 40.0   |
| (Nominal)                          | *1                   | BTU / h       | 76.400   | 95.500   | 114.300  | 136.500  |
|                                    | Power input          | kW            | 5.07   | 6.76   | 8.25   | 10.28  |
|                                    | Current input        | A             | 8.5-8.1-7.8  | 11.4-10.8-10.4                                       | 13.9-13.2-12.7                                       | 17.3-16.4-15.8                                       |
|                                    | EER                  | kW / kW       | 4.41   | 4.14   | 4.06   | 3.89   |
| Temp. range of                     | Indoor               | W.B.          | 15.0~24.0°C(59~75°F)                                 | 15.0~24.0°C(59~75°F)                                 | 15.0~24.0°C(59~75°F)                                 | 15.0~24.0°C(59~75°F)                                 |
|                                    | Outdoor              | vv.в.<br>D.B. |  |  |  |  |
|                                    | *2                   |               | -5.0~46.0°C(23~115°F)                                | -5.0~46.0°C(23~115°F)                                | -5.0~46.0°C(23~115°F)                                | -5.0~46.0°C(23~115°F)                                |
| Heating capacity                   |                      | kW            | 25.0   | 31.5   | 37.5   | 45.0   |
| (Nominal)                          |                      | BTU / h       | 85,300   | 107,500  | 128,000  | 153,500  |
|                                    | Power input          | kW            | 5.56   | 7.15   | 8.60   | 10.58  |
|                                    | Current input        | A             | 9.3-8.9-8.5  | 12.0-11.4-11.0                                       | 14.5-13.7-13.2                                       | 17.8-16.9-16.3                                       |
|                                    | COP                  | kW / kW       | 4.49   | 4.40   | 4.36   | 4.25   |
|                                    | Indoor               | D.B.          | 15.0~27.0°C(59~81°F)                                 | 15.0~27.0°C(59~81°F)                                 | 15.0~27.0°C(59~81°F)                                 | 15.0~27.0°C(59~81°F)                                 |
|                                    | Outdoor              | W.B.          | -20.0~15.5°C(-4~60°F)                                | -20.0~15.5°C(-4~60°F)                                | -20.0~15.5°C(-4~60°F)                                | -20.0~15.5°C(-4~60°F)                                |
| Indoor unit                        | Total capacity       |               | 50~150 % of outdoor unit capacity                    | 50~150 % of outdoor unit capacity                    | 50~150 % of outdoor unit capacity                    | 50~150 % of outdoor unit capacit                     |
| connectable                        | Model / Quantity     |               | P15~P250 / 1~20                                      | P15~P250 / 1~25                                      | P15~P250 / 1~30                                      | P15~P250 / 1~35                                      |
| Sound pressure le                  | vel                  | dB <a></a>    |  | 00   | 60   | 61   |
| (measured in anec                  | hoic room)           | an <v></v>    | 57   | 60   | 60   | 61   |
| Power pressure lev                 |                      |               |  |  | 00   |  |
| (measured in anec                  | hoic room)           | dB <a></a>    | 77   | 80   | 80   | 81   |
| Refrigerant piping                 |                      | mm (in.)      | 15.88(5/8) Brazed                                    | 19.05(3/4) Brazed                                    | 19.05(3/4) Brazed                                    | 19.05(3/4) Brazed                                    |
| diameter                           | Low pressure         | mm (in.)      | 19.05(3/4) Brazed                                    | 22.2(7/8) Brazed                                     | 22.2(7/8) Brazed                                     | 28.58(1-1/8) Brazed                                  |
| FAN                                | Type x Quantity      |               | Propeller fan x 1                                    | Propeller fan x 1                                    | Propeller fan x 1                                    | Propeller fan x 2                                    |
|                                    | Air flow rate        | m³/min        | 185  | 225  | 225  | 360  |
|                                    | All llow rate        | L/s           | 3.083  | 3.750  | 3.750  | 6.000  |
|                                    |                      | cfm           | 6,532  | 7.945  | 7.945  | 12,712   |
|                                    | <u></u>              |               |  |  |  |  |
|                                    | Driving mechanis     |               | Inverter-control, Direct-driven by motor             |
|                                    | Motor output         | kW            | 0.92 x 1   | 0.92 x 1   | 0.92 x 1   | 0.92 x 2   |
|                                    | External static pr   | ess.          | 0 Pa (0 mmH <sub>2</sub> O)                          |
| Compressor                         | Type x Quantity      |               | Inverter scroll hermetic compressor                  |
|                                    | Starting method      |               | Inverter   | Inverter   | Inverter   | Inverter   |
|                                    | Motor output         | kW            | 5.4  | 6.8  | 7.8  | 9.9  |
|                                    | Case heater          | kW            | 0.035(240 V)   | 0.045(240 V)   | 0.045(240 V)   | 0.045(240 V)   |
| External finish                    |                      |               | Pre-coated galvanized steel sheets                   |
|                                    |                      |               | (+powder coating for -BS type)                       |
|                                    |                      |               | <munsell 1="" 5y="" 8="" or="" similar=""></munsell> |
| External dimensior                 | n HxWxD              |               | 1,710(1,650 without legs)                            | 1,710(1,650 without legs)                            | 1,710(1,650 without legs)                            | 1,710(1,650 without legs)                            |
|                                    |                      | mm            | x 920 x 760  | x 1,220 x 760  | x 1,220 x 760  | x 1,750 x 760  |
|                                    |                      |               | 67-3/8(65 without legs) x 36-1/4                     | 67-3/8(65 without legs)                              | 67-3/8(65 without legs)                              | 67-3/8(65 without legs)                              |
|                                    |                      | in.           | x 29-15/16   | x 48-1/16 x 29-15/16                                 | x 48-1/16 x 29-15/16                                 | x 68-15/16 x 29-15/16                                |
| Protection                         | High pressure pr     | otection      | High pressure sensor, High pressure                  |
| devices                            | riigii piessaie pi   | 010011011     | switch at 4.15MPa (601 psi)                          |
| 0011000                            | Inverter circuit (CO |               |  | Over-heat protection, Over-current protection        | Over-heat protection, Over-current protection        | Over-heat protection, Over-current protection        |
|                                    | Compressor           | WF./FAN)      | Over-heat protection                                 | Over-heat protection                                 | Over-heat protection                                 | Over-heat protection                                 |
|                                    |                      |               |  |  |  |  |
| Fan motor                          |                      |               | Thermal switch                                       | Thermal switch                                       | Thermal switch                                       | Thermal switch                                       |
| Refrigerant Type x original charge |                      |               | R410A x 9.5kg (21lbs)                                | R410A x 11.8kg (27lbs)                               | R410A x 11.8kg (27lbs)                               | R410A x 11.8kg (27lbs)                               |
| Net weight                         |                      | kg (lbs)      | 240(530)   | 270(596)   | 270(596)   | 320(706)   |
| Heat exchanger                     |                      |               | Salt-resistant cross fin & copper tube               | Salt-resistant cross fin & copper tube               | Salt-resistant cross fin & copper tube               | Salt-resistant cross fin & copper tub                |
| Optional parts                     |                      |               | Joint: CMY-Y102SS-G2,CMY-Y102LS-G2,                  | Joint: CMY-Y102SS-G2,CMY-Y102LS-G2,                  | Joint: CMY-Y102SS-G2,CMY-Y102LS-G2,                  | Joint: CMY-Y102SS-G2,CMY-Y102LS-G2,                  |
|                                    |                      |               | CMY-R160-J1  | CMY-R160-J1  | CMY-R160-J1  | CMY-R160-J1  |
|                                    |                      |               | BC controller: CMB-P104,105,106,108,                 | BC controller: CMB-P104,105,106,108,                 | BC controller: CMB-P104,105,106,108,                 | BC controller: CMB-P104,105,106,108,                 |
|                                    |                      |               | 1010,1013,1016V-G1                                   | 1010,1013,1016V-G1                                   | 1010,1013,1016V-G1                                   | 1010,1013,1016V-G1                                   |
|                                    |                      |               | Main BC controller: CMB-P108,1010,                   |
|                                    |                      |               | 1013,1016V-GA1                                       | 1013,1016V-GA1                                       | 1013,1016V-GA1                                       | 1013,1016V-GA1                                       |
|                                    |                      |               | Sub BC controller: CMB-P104,108V-GB1,                | Sub BC controller: CMB-P104,108V-GB1,                | Sub BC controller: CMB-P104,108V-GB1,                | Sub BC controller: CMB-P104,108V-GB                  |
|                                    |                      |               | CMB-P1016V-HB1                                       | CMB-P1016V-HB1                                       | CMB-P1016V-HB1                                       | CMB-P1016V-HB1                                       |

#### Notes:

\*1,\*2 Nominal conditions

|         | Indoor                               | Outdoor                        | Pipe length       | Level difference |
|---------|--------------------------------------|--------------------------------|-------------------|------------------|
| Cooling | 27°C DB/19°C WB<br>(81°F DB/66°F WB) | 35°C DB(95°F DB)               | 7.5m (24-9/16ft.) | 0m (0ft.)        |
| Heating | 20°C DB(68°F DB)                     | 7°C DB/6°C WB(45°F DB/43°F WB) | 7.5m (24-9/16ft.) | 0m (0ft.)        |

\*3 -5°C DB (23°F DB) / -6°C WB (21°F WB) to 21°C DB (70°F DB) / 15.5°C WB (60°F WB) with cooling/heating mixed operation.

\*4 External static pressure option is a valiable (30Pa / 3.1mmH<sub>2</sub>O, 6.1mmH<sub>2</sub>O). \*Nominal condition \*1,\*2 are subject to JIS B8615-1. \*Due to continuing improvement, above specification may be subject to change without notice.

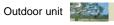


#### Notes:

| *1,*2 Nominal condition | ons                                  |                                |                   |                  |
|-------------------------|--------------------------------------|--------------------------------|-------------------|------------------|
|                         | Indoor                               | Outdoor                        | Pipe length       | Level difference |
| Cooling                 | 27°C DB/19°C WB<br>(81°F DB/66°F WB) | 35°C DB(95°F DB)               | 7.5m (24-9/16ft.) | 0m (0ft.)        |
| Heating                 | 20°C DB(68°F DB)                     | 7°C DB/6°C WB(45°F DB/43°F WB) | 7.5m (24-9/16ft.) | 0m (0ft.)        |

\*3 -5°C DB (23°F DB) / -6°C WB (21°F WB) to 21°C DB (70°F DB) / 15.5°C WB (60°F WB) with cooling/heating mixed operation. 4 External static pressure option is available (30Pa / 3.1mmH<sub>2</sub>O, 6.1mmH<sub>2</sub>O).
 \*Nominal condition \*1,\*2 are subject to JIS B8615-1.
 \*Due to continuing improvement, above specification may be subject to change without notice.

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## OUTDOOR UNIT R2 Series - High COP PURY-EP YSJM-A(-BS)

## ► Specifications

| Model  |                  |            | PURY-EP400YSJM-A(-BS)               | PURY-EP450YSJM-A(-BS)               | PURY-EP500YSJM-A(-BS)               |
|--|------------------|------------|-------------------------------------|-------------------------------------|-------------------------------------|
| Power source   |                  |            | 3-phase 4-wire 380-400-415V 50/60Hz | 3-phase 4-wire 380-400-415V 50/60Hz | 3-phase 4-wire 380-400-415V 50/60Hz |
| Cooling capacity                                       | *1               | kW         | 45.0                                | 50.0                                | 56.0                                |
| (Nominal) *1   |                  | BTU / h    | 153,500                             | 170,600                             | 191,100                             |
|  | Power input      | kW         | 10.41                               | 11.99                               | 13.62                               |
|  | Current input    | A          | 17.5-16.6-16.0                      | 20.2-19.2-18.5                      | 22.9-21.8-21.0                      |
|  | EER              | kW / kW    | 4.32                                | 4.17                                | 4.11                                |
| Temp. range of   | Indoor           | W.B.       | 15.0~24.0°C(59~75°F)                | 15.0~24.0°C(59~75°F)                | 15.0~24.0°C(59~75°F)                |
| cooling *3   | Outdoor          | D.B.       | -5.0~46.0°C(23~115°F)               | -5.0~46.0°C(23~115°F)               | -5.0~46.0°C(23~115°F)               |
| Heating capacity                                       | *2               | kW         | 50.0                                | 56.0                                | 63.0                                |
| (Nominal)  | *2               | BTU / h    | 170,600                             | 191,100                             | 215,000                             |
| P  | Power input      | kW         | 11.36                               | 12.87                               | 14.38                               |
|  | Current input    | A          | 19.1-18.2-17.5                      | 21.7-20.6-19.8                      | 24.2-23.0-22.2                      |
|  | COP              | kW / kW    | 4.40                                | 4.35                                | 4.38                                |
| Temp. range of   | Indoor           | D.B.       | 15.0~27.0°C(59~81°F)                | 15.0~27.0°C(59~81°F)                | 15.0~27.0°C(59~81°F)                |
| heating *3   | Outdoor          | W.B.       | -20.0~15.5°C(-4~60°F)               | -20.0~15.5°C(-4~60°F)               | -20.0~15.5°C(-4~60°F)               |
| Indoor unit  | Total capacity   |            | 50~150 % of outdoor unit capacity   | 50~150 % of outdoor unit capacity   | 50~150 % of outdoor unit capacity   |
| connectable  | Model / Quantity |            | P15~P250 / 1~40                     | P15~P250 / 1~40                     | P15~P250 / 1~50                     |
| Sound pressure level<br>(measured in anechoic room) dB |                  | dB <a></a> | 60                                  | 62                                  | 62                                  |
| Power pressure level<br>(measured in anechoic room)    |                  | dB <a></a> | 80                                  | 82                                  | 82                                  |
| Refrigerant piping                                     | High pressure    | mm (in.)   | 22.2(7/8) Brazed                    | 22.2(7/8) Brazed                    | 22.2(7/8) Brazed                    |
| diameter   | Low pressure     | mm (in.)   | 28.58(1-1/8) Brazed                 | 28.58(1-1/8) Brazed                 | 28.58(1-1/8) Brazed                 |

| Set Model          |                      |          |   |                             |   |                             |   |                             |
|--------------------|----------------------|----------|---|-----------------------------|---|-----------------------------|---|-----------------------------|
| Model              |                      |          | PURY-   | PURY-                       | PURY-   | PURY-                       | PURY-   | PURY-                       |
|                    |                      |          | EP200YJM-A(-BS)   | EP200YJM-A(-BS)             | EP200YJM-A(-BS)   | EP250YJM-A(-BS)             | EP200YJM-A(-BS)   | EP300YJM-A(-BS)             |
| FAN                | Type x Quantity      |          | Propeller fan x 1   | Propeller fan x 1           | Propeller fan x 1   | Propeller fan x 1           | Propeller fan x 1   | Propeller fan x 1           |
|                    | Air flow rate        | m³/min   | 185   | 185                         | 185   | 225                         | 185   | 225                         |
|                    |                      | L/s      | 3,083   | 3,083                       | 3,083   | 3,750                       | 3,083   | 3,750                       |
|                    |                      | cfm      | 6,532   | 6,532                       | 6,532   | 7,945                       | 6,532   | 7,945                       |
|                    | Driving mechanis     | sm       | Inverter-control, Dir   | rect-driven by motor        | Inverter-control, Dir   | ect-driven by motor         | Inverter-control, Dir   | rect-driven by motor        |
|                    | Motor output         | kW       | 0.92 x 1  | 0.92 x 1                    | 0.92 x 1  | 0.92 x 1                    | 0.92 x 1  | 0.92 x 1                    |
| *4                 | External static pr   | ess.     | 0 Pa (0 mmH <sub>2</sub> O)   | 0 Pa (0 mmH <sub>2</sub> O) | 0 Pa (0 mmH <sub>2</sub> O)   | 0 Pa (0 mmH <sub>2</sub> O) | 0 Pa (0 mmH <sub>2</sub> O)                                   | 0 Pa (0 mmH <sub>2</sub> O) |
| Compressor         | Type x Quantity      |          | Inverter scroll her   | metic compressor            | Inverter scroll her   | metic compressor            | Inverter scroll her   | metic compressor            |
|                    | Starting method      |          | Inverter  | Inverter                    | Inverter  | Inverter                    | Inverter  | Inverter                    |
|                    | Motor output         | kW       | 5.4   | 5.4                         | 5.4   | 6.8                         | 5.4   | 7.8                         |
|                    | Case heater          | kW       | 0.035(240 V)  | 0.035(240 V)                | 0.035(240 V)  | 0.045(240 V)                | 0.035(240 V)  | 0.045(240 V)                |
| External finish    |                      |          | Pre-coated galva  | nized steel sheets          | Pre-coated galva  | nized steel sheets          | Pre-coated galvanized steel sheets                            |                             |
|                    |                      |          | (+powder coati  | ng for -BS type)            | (+powder coati  | ng for -BS type)            | (+powder coati  | ng for -BS type)            |
|                    |                      |          | <munsell 51<="" td=""><td>/ 8/1 or similar&gt;</td><td><munsell 5y<="" td=""><td>/ 8/1 or similar&gt;</td><td><munsell 51<="" td=""><td>/ 8/1 or similar&gt;</td></munsell></td></munsell></td></munsell> | / 8/1 or similar>           | <munsell 5y<="" td=""><td>/ 8/1 or similar&gt;</td><td><munsell 51<="" td=""><td>/ 8/1 or similar&gt;</td></munsell></td></munsell> | / 8/1 or similar>           | <munsell 51<="" td=""><td>/ 8/1 or similar&gt;</td></munsell> | / 8/1 or similar>           |
| External dimension | on HxWxD             |          | 1,710(1,650 without   | 1,710(1,650 without         | 1,710(1,650 without   | 1,710(1,650 without         | 1,710(1,650 without   | 1,710(1,650 without         |
|                    |                      | mm       | legs) x 920 x 760   | legs) x 920 x 760           | legs) x 920 x 760   | legs) x 1,220 x 760         | legs) x 920 x 760   | legs) x 1,220 x 760         |
|                    |                      | in.      | 67-3/8(65 without legs)   | 67-3/8(65 without legs)     | 67-3/8(65 without legs)   | 67-3/8(65 without legs)     | 67-3/8(65 without legs)                                       | 67-3/8(65 without legs)     |
|                    |                      | in.      | x 36-1/4 x 29-15/16   | x 36-1/4 x 29-15/16         | x 36-1/4 x 29-15/16   | x 48-1/16 x 29-15/16        | x 36-1/4 x 29-15/16   | x 48-1/16 x 29-15/16        |
| Protection         | High pressure pr     | otection | High pressure sensor  | , High pressure switch      | High pressure sensor  | , High pressure switch      | High pressure sensor  | , High pressure switch      |
| devices            |                      |          | at 4.15MP   | a (601 psi)                 | at 4.15MP   | a (601 psi)                 | at 4.15MP   | a (601 psi)                 |
|                    | Inverter circuit (CC | MP./FAN) | Over-heat protection,   | Over-current protection     | Over-heat protection, (   | Over-current protection     | Over-heat protection,   | Over-current protection     |
|                    | Compressor           |          | Over-heat   | protection                  | Over-heat   | protection                  | Over-heat   | protection                  |
|                    | Fan motor            |          | Thermal switch  | Thermal switch              | Thermal switch  | Thermal switch              | Thermal switch  | Thermal switch              |
| Refrigerant        | Type x original c    | harge    | R410A x 9.5kg (21lbs)   | R410A x 9.5kg (21lbs)       | R410A x 9.5kg (21lbs)   | R410A x 11.8kg (27lbs)      | R410A x 9.5kg (21lbs)   | R410A x 11.8kg (27lbs)      |
| Net weight         |                      | kg (lbs) | 240(530)  | 240(530)                    | 240(530)  | 270(596)                    | 240(530)  | 270(596)                    |
| Heat exchanger     |                      |          | Salt-resistant cros   | s fin & copper tube         | Salt-resistant cros   | s fin & copper tube         | Salt-resistant cros   | s fin & copper tube         |
| Pipe between uni   | t High pressure      | mm (in.) | 15.88(5/8) Brazed   | 15.88(5/8) Brazed           | 15.88(5/8) Brazed   | 19.05(3/4) Brazed           | 15.88(5/8) Brazed   | 19.05(3/4) Brazed           |
| and distributor    | Low pressure         | mm (in.) | 19.05(3/4) Brazed   | -                           | 19.05(3/4) Brazed   | -                           | 19.05(3/4) Brazed   | -                           |
| Optional parts     |                      |          | Outdoor Twinning  | kit: CMY-R100VBK            | Outdoor Twinning  | kit: CMY-R100VBK            | Outdoor Twinning  | kit: CMY-R100VBK            |
|                    |                      |          | Joint: CMY-Y102SS-G2,CM   | Y-Y102LS-G2,CMY-R160-J1     | Joint: CMY-Y102SS-G2,CM   | Y-Y102LS-G2,CMY-R160-J1     | Joint: CMY-Y102SS-G2,CM                                       | Y-Y102LS-G2,CMY-R160-J1     |
|                    |                      |          | Main BC controller: CMB-F   | 2108,1010,1013,1016V-GA1    | Main BC controller: CMB-P   | 108,1010,1013,1016V-GA1     | Main BC controller: CMB-F                                     | 108,1010,1013,1016V-GA1     |
|                    |                      |          | Sub BC controller: CMB-P104   | ,108V-GB1,CMB-P1016V-HB1    | Sub BC controller: CMB-P104   | ,108V-GB1,CMB-P1016V-HB1    | Sub BC controller: CMB-P104                                   | ,108V-GB1,CMB-P1016V-HB1    |

#### Notes:

\*1,\*2 Nominal conditions

|         | Indoor                               | Outdoor                        | Pipe length       | Level difference |
|---------|--------------------------------------|--------------------------------|-------------------|------------------|
| Cooling | 27°C DB/19°C WB<br>(81°F DB/66°F WB) | 35°C DB(95°F DB)               | 7.5m (24-9/16ft.) | 0m (0ft.)        |
| Heating | 20°C DB(68°F DB)                     | 7°C DB/6°C WB(45°F DB/43°F WB) | 7.5m (24-9/16ft.) | 0m (0ft.)        |

\*3 -5°C DB (23°F DB) / -6°C WB (21°F WB) to 21°C DB (70°F DB) / 15.5°C WB (60°F WB) with cooling/heating mixed operation.

\*4 External static pressure option is available (30Pa / 0.1 mmbg/ 0.6.1 mmHgO).
 \*Nominal condition \*1,\*2 are subject to JIS B8615-1.
 \*Due to continuing improvement, above specification may be subject to change without notice.



OUTDOOR UNIT R2 Series - High COP PURY-EP YSJM-A(1)(-BS)

## ► Specifications

| Model  |                               |                     | PURY-EP500                                      | YSJM-A1(-BS)                                      | PURY-EP550                                      | YSJM-A(-BS)  | PURY-EP600   | YSJM-A(-BS)                                     |
|--|-------------------------------|---------------------|---|---|---|--|--|---|
| Power source   |                               |                     | 3-phase 4-wire 380                              | -400-415V 50/60Hz                                 | 3-phase 4-wire 380                              | -400-415V 50/60Hz  | 3-phase 4-wire 380   | -400-415V 50/60Hz                               |
| Cooling capacity   | *1                            | kW                  | 56  | 6.0   | 63  | 3.0  | 69   | 9.0   |
| (Nominal)  | *1                            | BTU / h             | 191   | ,100  | 215   | ,000   | 235  | ,400  |
| . ,  | Power input                   | kW                  | 13.96   |   | 15  | .40  | 16   | .87   |
|  | Current input                 | A                   | 23.5-22   | 2.3-21.5  | 25.9-24   | 1.6-23.8   | 28.4-27  | 7.0-26.0  |
|  | EER                           | kW / kW             | 4.  | 01  | 4.  | 09   | 4.   | 09  |
| Temp. range of   | Indoor                        | W.B.                |   | C(59~75°F)  |   | C(59~75°F)   |  | C(59~75°F)                                      |
|  | Outdoor                       | D.B.                |   | C(23~115°F)                                       |   | C(23~115°F)  |  | C(23~115°F)                                     |
| Heating capacity   | *2                            |                     |   | 3.0   |   | 9.0  |  | 6.5   |
| (Nominal)  |                               | BTU / h             |   | ,000  |   | ,400   |  | ,000  |
| (International)  | Power input                   | kW                  |   | .78   |   | .93  |  | .38   |
|  | Current input                 | A                   |   | 3.7-22.8  |   | 5.5-24.6   |  | 7.8-26.8  |
|  | COP                           | kW / kW             |   | 26  |   | 33   |  | 40  |
| Temp. range of   | Indoor                        |                     |   |   |   |  |  |   |
|  |                               | D.B.                |   | C(59~81°F)  |   | C(59~81°F)   |  | C(59~81°F)                                      |
|  | Outdoor                       | W.B.                |   | °C(-4~60°F)                                       |   | °C(-4~60°F)  |  | °C(-4~60°F)                                     |
| Indoor unit  | Total capacity                |                     |   | door unit capacity                                |   | door unit capacity   |  | door unit capacity                              |
|  | Model / Quantity              |                     | P15~P2  | 50 / 1~50   | P15~P2  | 50 / 2~50  | P15~P2   | 50 / 2~50                                       |
| Sound pressure let<br>(measured in anec                                  | choic room)                   | dB <a></a>          | 6   | 3   | 6   | 3  | 6  | 3   |
| Power pressure lev<br>(measured in anec                                  |                               | dB <a></a>          | 8   | 3   | 8   | 3  | 8  | 3   |
| Refrigerant piping   | High pressure                 | mm (in.)            | 22.2(7/8  | ) Brazed  | 28.58(1-1                                       | /8) Brazed   | 28.58(1-1  | /8) Brazed                                      |
| diameter   | Low pressure                  | mm (in.)            |   | /8) Brazed  |   | /8) Brazed   | 28.58(1-1  | (8) Brazed                                      |
| Set Model  |                               |                     |   |   |   |  |  |   |
| Model  |                               |                     | PURY-   | PURY-   | PURY-   | PURY-  | PURY-  | PURY-   |
|  |                               |                     | EP250YJM-A(-BS)                                 | EP250YJM-A(-BS)                                   | EP250YJM-A(-BS)                                 | EP300YJM-A(-BS)  | EP300YJM-A(-BS)  | EP300YJM-A(-BS                                  |
| FAN  | Type x Quantity               |                     | Propeller fan x 1                               | Propeller fan x 1                                 | Propeller fan x 1                               | Propeller fan x 1  | Propeller fan x 1  | Propeller fan x                                 |
|  | Air flow rate                 | m <sup>3</sup> /min | 225   | 225   | 225   | 225  | 225  | 225   |
|  |                               | L/s                 | 3,750   | 3,750   | 3,750   | 3,750  | 3,750  | 3,750   |
|  |                               | cfm                 | 7.945   | 7.945   | 7.945   | 7.945  | 7,945  | 7,945   |
|  | Driving mechanis              |                     |   | rect-driven by motor                              |   | rect-driven by motor   | Inverter-control, Dir  |   |
|  | Motor output                  | kW                  | 0.92 x 1  | 0.92 x 1  | 0.92 x 1  | 0.92 x 1   | 0.92 x 1   | 0.92 x 1  |
| *4   | External static pr            |                     | 0.92 X 1<br>0 Pa (0 mmH <sub>2</sub> O)         | 0.92 X 1<br>0 Pa (0 mmH <sub>2</sub> O)           | 0.92 X 1<br>0 Pa (0 mmH <sub>2</sub> O)         | 0.92 X 1<br>0 Pa (0 mmH <sub>2</sub> O)                                      | 0.32 X 1   | 0.92 X 1  |
| Compressor   | Type x Quantity               | 633.                |   | metic compressor                                  |   | metic compressor   |  | metic compressor                                |
| Compressor   | Starting method               |                     | Inverter  | Inverter  | Inverter  | Inverter   | Inverter   | Inverter  |
|  |                               | kW                  | 6.8   |   | 6.8   |  |  |   |
|  | Motor output                  |                     |   | 6.8   |   | 7.8  | 7.8  | 7.8   |
| E  | Case heater                   | kW                  | 0.045(240 V)                                    | 0.045(240 V)                                      | 0.045(240 V)                                    | 0.045(240 V)   | 0.045(240 V)   | 0.045(240 V)                                    |
| External finish  |                               |                     |   | nized steel sheets                                |   | nized steel sheets   |  | nized steel sheets                              |
|  |                               |                     |   | ng for -BS type)                                  | (+powder coating for -BS type)                  |  | (+powder coating for -BS type)                                     |   |
|  |                               |                     |   | / 8/1 or similar>                                 |   | / 8/1 or similar>  |  | ' 8/1 or similar>                               |
| External dimensior   | n HxWxD                       | mm                  | 1,710(1,650 without                             |   | 1,710(1,650 without                             |  | 1,710(1,650 without  |   |
|  |                               |                     | legs) x 1,220 x 760                             | legs) x 1,220 x 760                               | legs) x 1,220 x 760                             | legs) x 1,220 x 760  | legs) x 1,220 x 760  | legs) x 1,220 x 7                               |
|  |                               | in.                 | 67-3/8(65 without legs)<br>x 48-1/16 x 29-15/16 | 67-3/8(65 without legs)<br>x 48-1/16 x 29-15/16   | 67-3/8(65 without legs)<br>x 48-1/16 x 29-15/16 | 67-3/8(65 without legs)<br>x 48-1/16 x 29-15/16                              | 67-3/8(65 without legs)<br>x 48-1/16 x 29-15/16                    |   |
| Protection<br>devices  | High pressure pr              | otection            |   | , High pressure switch<br>a (601 psi)             |   | , High pressure switch<br>a (601 psi)  | High pressure sensor, High pressure switch<br>at 4.15MPa (601 psi) |   |
|  | Inverter circuit (CC          | MP./FAN)            | Over-heat protection,                           | Over-current protection                           | Over-heat protection, 0                         | Over-current protection  | Over-heat protection,  | Over-current protect                            |
|  | Compressor                    |                     | Over-heat                                       | protection  | Over-heat                                       | protection   | Over-heat  | protection                                      |
|  | Fan motor                     |                     | Thermal switch                                  | Thermal switch                                    | Thermal switch                                  | Thermal switch   | Thermal switch   | Thermal switch                                  |
| Refrigerant  | Type x original cl            | harge               | R410A x 11.8kg (27lbs)                          | R410A x 11.8kg (27lbs)                            | R410A x 11.8kg (27lbs)                          |  | R410A x 11.8kg (27lbs)   | R410A x 11.8kg (27l                             |
| Net weight   |                               | kg (lbs)            | 270(596)  | 270(596)  | 270(596)  | 270(596)   | 270(596)   | 270(596)  |
|  |                               |                     |   | s fin & copper tube                               | Salt-resistant cros                             | s fin & copper tube  |  | s fin & copper tube                             |
| Heat exchanger   |                               | mm (in )            |   | 19.05(3/4) Brazed                                 | 19.05(3/4) Brazed                               | 19.05(3/4) Brazed  | 19.05(3/4) Brazed  | 19.05(3/4) Braze                                |
|  | High pressure                 | I LUULU (ILI I      |   |   |   | 10100(0,1) 210200  |  |   |
| Pipe between unit  |                               | mm (in.)            |   | -   | 22 2(7/8) Brazed                                | -  | 22 2(7/8) Brazed   | -   |
| Heat exchanger<br>Pipe between unit<br>and distributor<br>Optional parts | High pressure<br>Low pressure | mm (in.)            | 22.2(7/8) Brazed                                | -<br>kit CMY-R100VBK                              | 22.2(7/8) Brazed                                | -<br>kit: CMY-R100VRK  | 22.2(7/8) Brazed   | -<br>kit: CMY-R100VBK                           |
| Pipe between unit  |                               |                     | 22.2(7/8) Brazed<br>Outdoor Twinning            | -<br>kit: CMY-R100VBK<br>Y-Y102I S-G2 CMY-R160-11 | Outdoor Twinning                                | -<br>kit: CMY-R100VBK<br>Y-Y102I S-G2 CMY-R160- I1                           | Outdoor Twinning   | -<br>kit: CMY-R100VBK<br>Y-Y102I S-G2 CMY-R160- |
| Pipe between unit<br>and distributor                                     |                               |                     | 22.2(7/8) Brazed<br>Outdoor Twinning            | Y-Y102LS-G2,CMY-R160-J1                           | Outdoor Twinning<br>Joint: CMY-Y102SS-G2,CM     | -<br>kit: CMY-R100VBK<br>Y-Y102LS-G2,CMY-R160-J1<br>'108.1010.1013.1016V-GA1 |  | Y-Y102LS-G2,CMY-R160-                           |

#### Notes:

| *1,*2 Nominal condition | ons                                  |                                |                   |                  |
|-------------------------|--------------------------------------|--------------------------------|-------------------|------------------|
|                         | Indoor                               | Outdoor                        | Pipe length       | Level difference |
| Cooling                 | 27°C DB/19°C WB<br>(81°F DB/66°F WB) | 35°C DB(95°F DB)               | 7.5m (24-9/16ft.) | 0m (0ft.)        |
| Heating                 | 20°C DB(68°F DB)                     | 7°C DB/6°C WB(45°F DB/43°F WB) | 7.5m (24-9/16ft.) | 0m (0ft.)        |

\*3 -5°C DB (23°F DB) / -6°C WB (21°F WB) to 21°C DB (70°F DB) / 15.5°C WB (60°F WB) with cooling/heating mixed operation. 4 External static pressure option is available (30Pa / 3.1mmH<sub>2</sub>O, 6.1mmH<sub>2</sub>O).
 \*Nominal condition \*1,\*2 are subject to JIS B8615-1.
 \*Due to continuing improvement, above specification may be subject to change without notice.





## OUTDOOR UNIT R2 Series - High COP PURY-EP YSJM-A(1) (-BS)



## ► Specifications

| Model                                  |                  |            | PURY-EP600YSJM-A1(-BS)              | PURY-EP650YSJM-A(-BS)               | PURY-EP700YSJM-A(-BS)               |
|--|------------------|------------|-------------------------------------|-------------------------------------|-------------------------------------|
| Power source                           |                  |            | 3-phase 4-wire 380-400-415V 50/60Hz | 3-phase 4-wire 380-400-415V 50/60Hz | 3-phase 4-wire 380-400-415V 50/60Hz |
| Cooling capacity                       | *1               | kW         | 69.0                                | 73.0                                | 80.0                                |
| (Nominal)                              | *1               | BTU / h    | 235,400                             | 249,100                             | 273,000                             |
|  | Power input      | kW         | 17.82                               | 19.01                               | 21.22                               |
|  | Current input    | A          | 30.0-28.5-27.5                      | 32.0-30.4-29.3                      | 35.8-34.0-32.8                      |
|  | EER              | kW / kW    | 3.87                                | 3.84                                | 3.77                                |
| Temp. range of                         | Indoor           | W.B.       | 15.0~24.0°C(59~75°F)                | 15.0~24.0°C(59~75°F)                | 15.0~24.0°C(59~75°F)                |
| cooling *3                             | Outdoor          | D.B.       | -5.0~46.0°C(23~115°F)               | -5.0~46.0°C(23~115°F)               | -5.0~46.0°C(23~115°F)               |
| Heating capacity                       | *2               | kW         | 76.5                                | 81.5                                | 88.0                                |
| (Nominal)                              | *2               | BTU / h    | 261,000                             | 278,100                             | 300,300                             |
|  | Power input      | kW         | 18.30                               | 19.73                               | 22.05                               |
|  | Current input    | A          | 30.8-29.3-28.2                      | 33.3-31.6-30.4                      | 37.2-35.3-34.0                      |
|  | COP              | kW/kW      | 4.18                                | 4.13                                | 3.99                                |
| Temp. range of                         | Indoor           | D.B.       | 15.0~27.0°C(59~81°F)                | 15.0~27.0°C(59~81°F)                | 15.0~27.0°C(59~81°F)                |
| heating *3                             | Outdoor          | W.B.       | -20.0~15.5°C(-4~60°F)               | -20.0~15.5°C(-4~60°F)               | -20.0~15.5°C(-4~60°F)               |
| Indoor unit                            | Total capacity   |            | 50~150 % of outdoor unit capacity   | 50~150 % of outdoor unit capacity   | 50~150 % of outdoor unit capacity   |
| connectable                            | Model / Quantity |            | P15~P250 / 2~50                     | P15~P250 / 2~50                     | P15~P250 / 2~50                     |
| Sound pressure le<br>(measured in anec |                  | dB <a></a> | 63.5                                | 63.5                                | 64                                  |
| Power pressure le<br>measured in anec  |                  | dB <a></a> | 83.5                                | 83.5                                | 84                                  |
| Refrigerant piping                     | High pressure    | mm (in.)   | 28.58(1-1/8) Brazed                 | 28.58(1-1/8) Brazed                 | 28.58(1-1/8) Brazed                 |
| • • • •                                | Low pressure     | mm (in.)   | 28.58(1-1/8) Brazed                 | 28.58(1-1/8) Brazed                 | 34.93(1-3/8) Brazed                 |

| Set Model          |                      |          | T  | T                           | T  |                             | T  |                             |
|--------------------|----------------------|----------|--|-----------------------------|--|-----------------------------|--|-----------------------------|
| Model              |                      |          | PURY-  | PURY-                       | PURY-  | PURY-                       | PURY-  | PURY-                       |
|                    |                      |          | EP250YJM-A(-BS)  | EP350YJM-A(-BS)             | EP300YJM-A(-BS)  | EP350YJM-A(-BS)             | EP350YJM-A(-BS)  | EP350YJM-A(-BS)             |
| FAN                | Type x Quantity      |          | Propeller fan x 1  | Propeller fan x 2           | Propeller fan x 1  | Propeller fan x 2           | Propeller fan x 2  | Propeller fan x 2           |
|                    | Air flow rate        | m³/min   | 225  | 360                         | 225  | 360                         | 360  | 360                         |
|                    |                      | L/s      | 3,750  | 6,000                       | 3,750  | 6,000                       | 6,000  | 6,000                       |
|                    |                      | cfm      | 7,945  | 12,712                      | 7,945  | 12,712                      | 12,712   | 12,712                      |
|                    | Driving mechanis     | sm       | Inverter-control, Dir  | rect-driven by motor        | Inverter-control, Dir  | rect-driven by motor        | Inverter-control, Di   | rect-driven by motor        |
|                    | Motor output         | kW       | 0.92 x 1   | 0.92 x 2                    | 0.92 x 1   | 0.92 x 2                    | 0.92 x 2   | 0.92 x 2                    |
| *4                 | External static pr   | ess.     | 0 Pa (0 mmH₂O)   | 0 Pa (0 mmH <sub>2</sub> O) | 0 Pa (0 mmH₂O)   | 0 Pa (0 mmH <sub>2</sub> O) | 0 Pa (0 mmH <sub>2</sub> O)                                  | 0 Pa (0 mmH <sub>2</sub> O) |
| Compressor         | Type x Quantity      |          | Inverter scroll her  | metic compressor            | Inverter scroll her  | metic compressor            | Inverter scroll he   | rmetic compressor           |
|                    | Starting method      |          | Inverter   | Inverter                    | Inverter   | Inverter                    | Inverter   | Inverter                    |
|                    | Motor output         | kW       | 6.8  | 9.9                         | 7.8  | 9.9                         | 9.9  | 9.9                         |
|                    | Case heater          | kW       | 0.045(240 V)   | 0.045(240 V)                | 0.045(240 V)   | 0.045(240 V)                | 0.045(240 V)   | 0.045(240 V)                |
| External finish    |                      |          | Pre-coated galva   | nized steel sheets          | Pre-coated galva   | nized steel sheets          | Pre-coated galva   | nized steel sheets          |
|                    |                      |          | (+powder coating for -BS type)   |                             | (+powder coating for -BS type)   |                             | (+powder coating for -BS type)                               |                             |
|                    |                      |          | <munsell 51<="" td=""><td>/ 8/1 or similar&gt;</td><td><munsell 5y<="" td=""><td>/ 8/1 or similar&gt;</td><td><munsell 5<="" td=""><td>Y 8/1 or similar&gt;</td></munsell></td></munsell></td></munsell> | / 8/1 or similar>           | <munsell 5y<="" td=""><td>/ 8/1 or similar&gt;</td><td><munsell 5<="" td=""><td>Y 8/1 or similar&gt;</td></munsell></td></munsell> | / 8/1 or similar>           | <munsell 5<="" td=""><td>Y 8/1 or similar&gt;</td></munsell> | Y 8/1 or similar>           |
| External dimension | on HxWxD             |          | 1,710(1,650 without  | 1,710(1,650 without         | 1,710(1,650 without  | 1,710(1,650 without         | 1,710(1,650 without  | 1,710(1,650 without         |
|                    |                      | mm       | legs) x 1,220 x 760  | legs) x 1,750 x 760         | legs) x 1,220 x 760  | legs) x 1,750 x 760         | legs) x 1,750 x 760  | legs) x 1,750 x 760         |
|                    |                      | in       | 67-3/8(65 without legs)  | 67-3/8(65 without legs)     | 67-3/8(65 without legs)  | 67-3/8(65 without legs)     | 67-3/8(65 without legs)                                      | 67-3/8(65 without legs)     |
|                    |                      | in.      | x 48-1/16 x 29-15/16   | x 68-15/16 x 29-15/16       | x 48-1/16 x 29-15/16   | x 68-15/16 x 29-15/16       | x 68-15/16 x 29-15/16  | x 68-15/16 x 29-15/16       |
| Protection         | High pressure pr     | otection | High pressure sensor   | , High pressure switch      | High pressure sensor   | ; High pressure switch      | High pressure sensor   | r, High pressure switch     |
| devices            |                      |          | at 4.15MP  | a (601 psi)                 | at 4.15MP  | a (601 psi)                 | at 4.15MF  | Pa (601 psi)                |
|                    | Inverter circuit (CC | MP./FAN) | Over-heat protection,  | Over-current protection     | Over-heat protection,  | Over-current protection     | Over-heat protection,  | Over-current protection     |
|                    | Compressor           |          | Over-heat  | protection                  | Over-heat  | protection                  | Over-hear  | t protection                |
|                    | Fan motor            |          | Thermal switch   | Thermal switch              | Thermal switch   | Thermal switch              | Thermal switch   | Thermal switch              |
| Refrigerant        | Type x original c    | harge    | R410A x 11.8kg (27lbs)   | R410A x 11.8kg (27lbs)      | R410A x 11.8kg (27lbs)   | R410A x 11.8kg (27lbs)      | R410A x 11.8kg (27lbs)                                       | R410A x 11.8kg (27lbs)      |
| Net weight         |                      | kg (lbs) | 270(596)   | 320(706)                    | 270(596)   | 320(706)                    | 320(706)   | 320(706)                    |
| Heat exchanger     |                      |          | Salt-resistant cros  | s fin & copper tube         | Salt-resistant cros  | s fin & copper tube         | Salt-resistant cros  | s fin & copper tube         |
| Pipe between uni   | t High pressure      | mm (in.) | 19.05(3/4) Brazed  | 19.05(3/4) Brazed           | 19.05(3/4) Brazed  | 19.05(3/4) Brazed           | 19.05(3/4) Brazed  | 19.05(3/4) Brazed           |
| and distributor    | Low pressure         | mm (in.) | 22.2(7/8) Brazed   | -                           | 22.2(7/8) Brazed   | -                           | 28.58(1-1/8) Brazed  | -                           |
| Optional parts     |                      |          | Outdoor Twinning k   | it: CMY-R100XLVBK           | Outdoor Twinning k   | it: CMY-R100XLVBK           | Outdoor Twinning I   | tit: CMY-R100XLVBK          |
|                    |                      |          | Joint: CMY-Y102SS-G2,CM  | Y-Y102LS-G2,CMY-R160-J1     | Joint: CMY-Y102SS-G2,CM  | Y-Y102LS-G2,CMY-R160-J1     | Joint: CMY-Y102SS-G2,CN                                      | IY-Y102LS-G2,CMY-R160-J1    |
|                    |                      |          | Main BC controller: CMB-F  | 108,1010,1013,1016V-GA1     | Main BC controller: CMB-P  | P108,1010,1013,1016V-GA1    | Main BC controller   | : CMB-P1016V-HA1            |
|                    |                      |          | Sub BC controller: CMB-P104  | ,108V-GB1,CMB-P1016V-HB1    | Sub BC controller: CMB-P104  | ,108V-GB1,CMB-P1016V-HB1    | Sub BC controller: CMB-P104                                  | 4,108V-GB1,CMB-P1016V-HB1   |

## **HEAT SOURCE UNIT** WR2 (Heat Recovery) Series PQRY-P YHM-A

## ► Specifications

| Model                                  |                           |                   | PQRY-P200YHM-A                                       | PQRY-P250YHM-A  | PQRY-P300YHM-A                                       |  |
|--|---------------------------|-------------------|--|---|--|--|
| Power source                           |                           |                   | 3-phase 4-wire 380-400-415V 50/60Hz                  | 3-phase 4-wire 380-400-415V 50/60Hz                             | 3-phase 4-wire 380-400-415V 50/60Hz                  |  |
| Cooling capacity                       | *1                        | kW                | 22.4   | 28.0  | 33.5   |  |
| (Nominal)                              | *1                        | BTU / h           | 76,400   | 95,500  | 114,300  |  |
|  | Power input               | kW                | 3.96   | 5.51  | 7.44   |  |
|  | Current input             | Α                 | 6.6-6.3-6.1  | 9.3-8.8-8.5   | 12.5-11.9-11.5                                       |  |
|  | EER                       | kW / kW           | 5.65   | 5.08  | 4.50   |  |
| Temp. range of                         | Indoor                    | W.B.              | 15.0~24.0°C(59~75°F)                                 | 15.0~24.0°C(59~75°F)  | 15.0~24.0°C(59~75°F)                                 |  |
|  | Circulating water         | °C                | 10.0~45.0°C(50~113°F)                                | 10.0~45.0°C(50~113°F)   | 10.0~45.0°C(50~113°F)                                |  |
| Heating capacity                       | *2                        | kW                | 25.0   | 31.5  | 37.5   |  |
| (Nominal)                              | *2                        | BTU / h           | 85,300   | 107,500   | 128,000  |  |
|  | Power input               | kW                | 4.12   | 5.80  | 8.15   |  |
|  | Current input             | A                 | 6.9-6.6-6.3  | 9.7-9.3-8.9   | 13.7-13.0-12.5                                       |  |
|  | COP                       | kW / kW           | 6.06   | 5.43  | 4.60   |  |
| Temp. range of                         | Indoor                    | D.B.              | 15.0~27.0°C(59~81°F)                                 | 15.0~27.0°C(59~81°F)  | 15.0~27.0°C(59~81°F)                                 |  |
| heating                                | Circulating water         | °C                | 10.0~45.0°C(50~113°F)                                | 10.0~45.0°C(50~113°F)   | 10.0~45.0°C(50~113°F)                                |  |
| Indoor unit                            | Total capacity            |                   | 50~150 % of heat source unit capacity                | 50~150 % of heat source unit capacity                           | 50~150 % of heat source unit capacity                |  |
|  | Model / Quantity          |                   | P15~P250 / 1~20                                      | P15~P250 / 1~25   | P15~P250 / 1~30                                      |  |
| Sound pressure le<br>(measured in anec | vel                       | dB <a></a>        | 47   | 49  | 50   |  |
| Refrigerant piping                     |                           | mm (in.)          | 15.88(5/8) Brazed                                    | 19.05(3/4) Brazed   | 19.05(3/4) Brazed                                    |  |
|  | Low pressure              | mm (in.)          | 19.05(3/4) Brazed                                    | 22.2(7/8) Brazed  | 22.2(7/8) Brazed                                     |  |
|  |                           |                   | 5.76 5.76  |   | 5.76   |  |
| Sirculating water                      | water now rate            | L/min             | 96   | 96  | 96   |  |
|  |                           | cfm               | 3.4  | 3.4   | 3.4  |  |
|  | Pressure drop             | kPa               | 17   | 17  | 17   |  |
|  | Operating<br>volume range | m <sup>3</sup> /h | 4.5 ~ 7.2  | 4.5 ~ 7.2   | 4.5 ~ 7.2  |  |
| Compressor                             | Type x Quantity           |                   | Inverter scroll hermetic compressor                  | Inverter scroll hermetic compressor                             | Inverter scroll hermetic compressor                  |  |
|  | Starting method           |                   | Inverter   | Inverter  | Inverter   |  |
|  | Motor output              | kW                | 4.6 6.3  |   | 7.4  |  |
|  | Case heater               | kW                | 0.035(240 V)   | 0.035(240 V)  | 0.035(240 V)   |  |
| External finish                        | Case ficater              | NVV               | Acrylic painted steel plate                          | Acrylic painted steel plate                                     | Acrylic painted steel plate                          |  |
| External dimension                     | n HxWxD                   | mm                | 1,160(1,100 without legs) x 880 x 550                | 1,160(1,100 without legs) x 880 x 550                           | 1,160(1,100 without legs) x 880 x 550                |  |
|  |                           | in.               | 45-11/16(43-5/16 without legs) x 34-11/16 x 21-11/16 | 45-11/16(43-5/16 without legs) x 34-11/16 x<br>21-11/16         | 45-11/16(43-5/16 without legs) x 34-11/16 x 21-11/16 |  |
| Protection                             | High pressure pro         | otection          |  | High pressure sensor, High pressure switch at 4.15MPa (601 psi) |  |  |
| devices                                | Inverter circuit (C       |                   |  | Over-heat protection, Over-current protection                   |  |  |
|  | Compressor                |                   | Over-heat protection                                 | Over-heat protection  | Over-heat protection                                 |  |
| Refrigerant                            | Type x original ch        | narge             | R410A x 5.0kg (12lbs)                                | R410A x 5.0kg (12lbs)   | R410A x 5.0kg (12lbs)                                |  |
| Net weight                             | <i></i>                   | kg (lbs)          | 181(400)   | 181(400)  | 181(400)   |  |
| Heat exchanger                         |                           |                   | plate type   | plate type  | plate type   |  |
|  | Water volume in<br>plate  | L                 | 5.0  | 5.0   | 5.0  |  |
|  | Water pressure<br>Max.    | MPa               | 2.0  | 2.0   | 2.0  |  |
|  | IVIAX.                    |                   |  |   |  |  |

#### Notes:

\*1,\*2 Nominal conditions

|         | Indoor                               | Outdoor                        | Pipe length       | Level difference |
|---------|--------------------------------------|--------------------------------|-------------------|------------------|
| Cooling | 27°C DB/19°C WB<br>(81°F DB/66°F WB) | 35°C DB(95°F DB)               | 7.5m (24-9/16ft.) | 0m (0ft.)        |
| Heating | 20°C DB(68°F DB)                     | 7°C DB/6°C WB(45°F DB/43°F WB) | 7.5m (24-9/16ft.) | 0m (0ft.)        |

\*3 -5°C DB (23°F DB) / -6°C WB (21°F WB) to 21°C DB (70°F DB) / 15.5°C WB (60°F WB) with cooling/heating mixed operation.

4 External static pressure option is available (30Pa / 3.1mmH<sub>2</sub>O, 6.1mmH<sub>2</sub>O).
 \*Nominal condition \*1,\*2 are subject to JIS B8615-1.
 \*Due to continuing improvement, above specification may be subject to change without notice.

Outdoor unit

#### Notes:

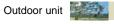
| 1,*2 Nominal conditio | ns                                       |                   |         |
|-----------------------|--|-------------------|---------|
|                       | Indoor                                   | Water temperature | Pipe    |
| Cooling               | 27°CD.B./19°CW.B.<br>(81°FD.B./66°FW.B.) | 30°C (86°F)       | 7.5m (2 |
| Heating               | 20°CD.B. (68°FD.B.)                      | 20°C (68°F)       |         |

\*3 The ambient temperature of the heat source unit needs to be kept below 40°CD.B.
\*4 The ambient relative humidity of the heat source unit needs to be kept below 80%.
\*5 The heat source Unit should not be installed at outdoor.
\*6 Be sure to mount a strainer (more than 50 meshes) at the water inlet piping of the unit.
\*7 Be sure to provide interlocking for the unit operation and water circuit.
\*Nominal condition \*1,\*2 are subject to JIS B8615-1.
\*Due to continuing improvement, above specification may be subject to change without notice.





| ipe length     | Level difference |
|----------------|------------------|
| n (24-9/16ft.) | 0m (0ft.)        |



## **HEAT SOURCE UNIT** WR2 (Heat Recovery) Series PORY-P YSHM-A



## ► Specifications

| Model              |   |          | PQRY-P400YSHM-A                       | PQRY-P450YSHM-A                       | PQRY-P500YSHM-A  |  |
|--------------------|---|----------|---------------------------------------|---------------------------------------|--|--|
| Power source       |   |          | 3-phase 4-wire 380-400-415V 50/60Hz   | 3-phase 4-wire 380-400-415V 50/60Hz   | 3-phase 4-wire 380-400-415V 50/60Hz                          |  |
| Cooling capacity   | *1  | kW       | 45.0                                  | 50.0                                  | 56.0   |  |
| (Nominal)          | *1  | BTU / h  | 153,500                               | 170,600                               | 191,100  |  |
|                    | Power input   | kW       | 8.32                                  | 9.94                                  | 11.57  |  |
|                    | Current input   | Α        | 14.0-13.3-12.8                        | 16.7-15.9-15.3                        | 19.5-18.5-17.8   |  |
|                    | EER   | kW / kW  | 5.40                                  | 5.03                                  | 4.84   |  |
| Temp. range of     | Indoor  | W.B.     | 15.0~24.0°C(59~75°F)                  | 15.0~24.0°C(59~75°F)                  | 15.0~24.0°C(59~75°F)   |  |
| cooling            | Circulating water   | S°       | 10.0~45.0°C(50~113°F)                 | 10.0~45.0°C(50~113°F)                 | 10.0~45.0°C(50~113°F)  |  |
| Heating capacity   | *2  | kW       | 50.0                                  | 56.0                                  | 63.0   |  |
| (Nominal)          | *2  | BTU / h  | 170,600                               | 191,100                               | 215,000  |  |
|                    | Power input kW  |          | 8.65                                  | 10.42                                 | 12.06  |  |
|                    | Current input   | A        | 14.6-13.8-13.3                        | 17.5-16.7-16.1                        | 20.3-19.3-18.6   |  |
|                    | COP   | kW / kW  | 5.78                                  | 5.37                                  | 5.22   |  |
| Temp. range of     | Indoor  | D.B.     | 15.0~27.0°C(59~81°F)                  | 15.0~27.0°C(59~81°F)                  | 15.0~27.0°C(59~81°F)   |  |
| heating            | Circulating water   | °C       | 10.0~45.0°C(50~113°F)                 | 10.0~45.0°C(50~113°F)                 | 10.0~45.0°C(50~113°F)  |  |
| Indoor unit        | Total capacity  |          | 50~150 % of heat source unit capacity | 50~150 % of heat source unit capacity | 50~150 % of heat source unit capacity                        |  |
| connectable        | Model / Quantity  |          | P15~P250 / 1~40                       | P15~P250 / 1~45                       | P15~P250 / 1~50 (Connectable branch pipe number is max. 48.) |  |
|                    | Sound pressure level<br>(measured in anechoic room) dB <a;< td=""><td>50</td><td>51</td><td colspan="2">52</td></a;<> |          | 50                                    | 51                                    | 52   |  |
| Refrigerant piping | High pressure   | mm (in.) | 22.2(7/8) Brazed                      | 22.2(7/8) Brazed                      | 22.2(7/8) Brazed   |  |
| diameter [O.D.]    | Low pressure  | mm (in.) | 28.58(1-1/8) Brazed                   | 28.58(1-1/8) Brazed                   | 28.58(1-1/8) Brazed  |  |
| Set Model          |   |          |                                       |                                       |  |  |
| Model              |   |          | PQRY-P200YHM-A PQRY-P200YHM-A         | PQRY-P250YHM-A PQRY-P200YHM-A         | PQRY-P250YHM-A PQRY-P250YHM-A                                |  |
|                    |   |          |                                       |                                       |  |  |

| Model              | Model                     |                    | PQRY-P200YHM-A                  | PQRY-P200YHM-A                                      | PQRY-P250YHM-A  | PQRY-P200YHM-A                                      | PQRY-P250YHM-A                  | PQRY-P250YHM-A                                      |
|--------------------|---------------------------|--------------------|---------------------------------|---|---|---|---------------------------------|---|
| Circulating water  | Water flow rate           | m <sup>3</sup> / h | 5.76 -                          | + 5.76  | 5.76 -  | + 5.76  | 5.76 + 5.76                     |   |
|                    |                           | L/min              | 96 -                            | + 96  | 96 -  | + 96  | 96 -                            | + 96  |
|                    |                           | cfm                | 3.4 -                           | + 3.4   | 3.4 -   | + 3.4   | 3.4 -                           | + 3.4   |
|                    | Pressure drop             | kPa                | 17                              | 17  | 17  | 17  | 17                              | 17  |
|                    | Operating<br>volume range | m³ / h             | 4.5 + 4.5 -                     | ~ 7.2 + 7.2   | 4.5 + 4.5 -   | - 7.2 + 7.2   | 4.5 + 4.5 -                     | ~ 7.2 + 7.2   |
| Compressor         | Type x Quantity           |                    | Inverter scroll her             | metic compressor                                    | Inverter scroll her                                   | metic compressor                                    | Inverter scroll her             | metic compressor                                    |
|                    | Starting method           |                    | Inverter                        | Inverter  | Inverter  | Inverter  | Inverter                        | Inverter  |
|                    | Motor output              | kW                 | 4.6                             | 4.6   | 6.3   | 4.6   | 6.3                             | 6.3   |
|                    | Case heater               | kW                 | 0.035(240 V)                    | 0.035(240 V)  | 0.035(240 V)  | 0.035(240 V)  | 0.035(240 V)                    | 0.035(240 V)  |
| External finish    |                           |                    | Acrylic painte                  | ed steel plate                                      | Acrylic painte  | ed steel plate                                      | Acrylic painte                  | ed steel plate                                      |
| External dimension | n HxWxD                   | mm                 | 1,160(1,100 without             | 1,160(1,100 without                                 | 1,160(1,100 without                                   | 1,160(1,100 without                                 | 1,160(1,100 without             | 1,160(1,100 without                                 |
|                    |                           | 111111             | legs) x 880 x 550               | legs) x 880 x 550                                   | legs) x 880 x 550                                     | legs) x 880 x 550                                   | legs) x 880 x 550               | legs) x 880 x 550                                   |
| ĺ                  |                           | in.                | 45-11/16(43-5/16 without legs)  | 45-11/16(43-5/16 without legs)                      | 45-11/16(43-5/16 without legs)                        | 45-11/16(43-5/16 without legs)                      | 45-11/16(43-5/16 without legs)  | 45-11/16(43-5/16 without legs)                      |
|                    |                           |                    | x 34-11/16 x 21-11/16           | x 34-11/16 x 21-11/16                               | x 34-11/16 x 21-11/16                                 | x 34-11/16 x 21-11/16                               | x 34-11/16 x 21-11/16           | x 34-11/16 x 21-11/16                               |
| Protection         | High pressure pre         | otection           | High pressure sensor, High pres | sure switch at 4.15MPa (601 psi)                    | High pressure sensor, High pres                       | sure switch at 4.15MPa (601 psi)                    | High pressure sensor, High pres | sure switch at 4.15MPa (601 psi)                    |
| devices            | Inverter circuit (C       | OMP.)              | Over-heat protection,           | Over-current protection                             | Over-heat protection, (                               | Over-current protection                             | Over-heat protection, (         | Over-current protection                             |
|                    | Compressor                |                    |                                 | protection  | Over-heat protection                                  |   | Over-heat protection            |   |
| Refrigerant        | Type x original ch        | narge              | R410A x 5.0kg (12lbs)           | R410A x 5.0kg (12lbs)                               | R410A x 5.0kg (12lbs)                                 | R410A x 5.0kg (12lbs)                               | R410A x 5.0kg (12lbs)           | R410A x 5.0kg (12lbs)                               |
| Net weight         |                           | kg (lbs)           | 181(400)                        | 181(400)  | 181(400)  | 181(400)  | 181(400)                        | 181(400)  |
| Heat exchanger     |                           |                    | plate type                      | plate type  | plate type  | plate type  | plate type                      | plate type  |
|                    | Water volume in<br>plate  | L                  | 5.0                             | 5.0   | 5.0   | 5.0   | 5.0                             | 5.0   |
|                    | Water pressure<br>Max.    | MPa                | 2.0                             | 2.0   | 2.0   | 2.0   | 2.0                             | 2.0   |
| Optional parts     |                           |                    |                                 | g kit: CMY-Q100VBK<br>S-G2,CMY-Y202S-G2,CMY-R160-J1 | Heat Source Twinnin<br>Joint: CMY-Y102SS-G2,CMY-Y102L | g kit: CMY-Q100VBK<br>S-G2,CMY-Y202S-G2,CMY-R160-J1 |                                 | g kit: CMY-Q100VBK<br>S-G2,CMY-Y202S-G2,CMY-R160-J1 |

## **HEAT SOURCE UNIT** WR2 (Heat Recovery) Series PQRY-P YSHM-A

## ► Specifications

| Model                  |                          |                    | PQRY-P5                       | 50YSHM-A                              | PQRY-P6                               | DOYSHM-A                      |  |
|------------------------|--------------------------|--------------------|-------------------------------|---------------------------------------|---------------------------------------|-------------------------------|--|
| Power source           |                          |                    | 3-phase 4-wire 380            | 0-400-415V 50/60Hz                    | 3-phase 4-wire 380                    | -400-415V 50/60Hz             |  |
| Cooling capacity *1 kW |                          | kW                 | 63.0                          |                                       |                                       | 9.0                           |  |
| (Nominal)              | *1                       | BTU / h            |                               | 5.000                                 | 235,400                               |                               |  |
|                        | Power input              | kW                 | 13.60                         |                                       |                                       | 15.62                         |  |
|                        | Current input            | A                  |                               | 1.8-21.0                              |                                       | 5.0-24.1                      |  |
| EER                    |                          | kW / kW            |                               | .63                                   |                                       | 41                            |  |
| Temp. range of         | Indoor                   | W.B.               |                               | °C(59~75°F)                           |                                       | C(59~75°F)                    |  |
| cooling                | Circulating water        |                    | 10.0~45.0°C(50~113°F)         |                                       |                                       | C(50~113°F)                   |  |
| Heating capacity       | *2                       |                    |                               | 9.0                                   |                                       | 6.5                           |  |
| (Nominal)              | *2                       | BTU / h            |                               | .400                                  |                                       | .000                          |  |
| ()                     | Power input              | kW                 |                               | .65                                   |                                       | .12                           |  |
|                        | Current input            | A                  |                               | 3.4-22.6                              |                                       | 7.4-26.4                      |  |
|                        | COP                      | kW / kW            |                               | .70                                   |                                       | 46                            |  |
| Temp. range of         | Indoor                   | D.B.               |                               | °C(59~81°F)                           |                                       | C(59~81°F)                    |  |
| heating                | Circulating water        |                    |                               | C(50~113°F)                           |                                       | C(50~113°F)                   |  |
| Indoor unit            | Total capacity           | Ŭ                  |                               | source unit capacity                  |                                       | source unit capacity          |  |
| connectable            | Model / Quantity         |                    |                               | branch pipe number is max. 48.)       | P15~P250 / 2~50 (Connectable          |                               |  |
| Sound pressure le      |                          |                    |                               | · · · · · · · · · · · · · · · · · · · | · · · · · · · · · · · · · · · · · · · |                               |  |
| (measured in ane       |                          | dB <a></a>         | 52                            | 2.5                                   | 5                                     | 53                            |  |
| Refrigerant piping     |                          | mm (in.)           | 28 58(1-1                     | /8) Brazed                            | 28.58(1-1/8) Brazed                   |                               |  |
|                        | Low pressure             | mm (in.)           |                               | /8) Brazed                            |                                       | /8) Brazed                    |  |
| Set Model              | Lon procedio             |                    | 20.00(11                      | NOT BIAZEG                            | 20.00(11                              | 107 1510200                   |  |
| Model                  |                          |                    | PQRY-P300YHM-A                | PQRY-P250YHM-A                        | PQRY-P300YHM-A                        | PQRY-P300YHM-A                |  |
| Circulating water      | Water flow rate          | m <sup>3</sup> /h  |                               | + 5.76                                |                                       | + 5.76                        |  |
| on our during water    |                          | L/min              |                               | + 96                                  |                                       | + 96                          |  |
|                        |                          | cfm                |                               | + 3.4                                 |                                       | + 3.4                         |  |
|                        | Pressure drop            | kPa                | 17                            | 17                                    | 17                                    | 17                            |  |
|                        | Operating                |                    |                               | 17                                    | 17                                    | 17                            |  |
|                        | volume range             | m <sup>3</sup> / h | 4.5 + 4.5                     | ~ 7.2 + 7.2                           | 4.5 + 4.5                             | ~ 7.2 + 7.2                   |  |
| Compressor             | Type x Quantity          | 1                  | Inverter scroll be            | rmetic compressor                     | Inverter scroll be                    | metic compressor              |  |
| Comprosocor            | Starting method          |                    | Inverter                      | Inverter                              | Inverter                              | Inverter                      |  |
|                        | Motor output             | kW                 | 7.4                           | 6.3                                   | 7.4                                   | 7.4                           |  |
|                        | Case heater              | kW                 | 0.035(240 V)                  | 0.035(240 V)                          | 0.035(240 V)                          | 0.035(240 V)                  |  |
| External finish        | loubo nouto.             |                    |                               | ed steel plate                        |                                       | ed steel plate                |  |
| External dimensio      | n HxWxD                  |                    |                               | 1,160(1,100 without legs) x 880       | 1,160(1,100 without legs) x 880       |                               |  |
|                        |                          | mm                 | x 550                         | x 550                                 | x 550                                 | x 550                         |  |
|                        |                          |                    |                               | 45-11/16(43-5/16 without legs) x      |                                       |                               |  |
|                        |                          | in.                | 34-11/16 x 21-11/16           | 34-11/16 x 21-11/16                   | 34-11/16 x 21-11/16                   | 34-11/16 x 21-11/16           |  |
| Protection             | High pressure pr         | otection           |                               | sure switch at 4.15MPa (601 psi)      |                                       |                               |  |
| devices                | Inverter circuit (C      |                    |                               | Over-current protection               |                                       | Over-current protection       |  |
| 001000                 | Compressor               |                    | Over-heat protection          | Over-heat protection                  | Over-heat protection                  | Over-heat protection          |  |
| Refrigerant            | Type x original ch       | narge              | R410A x 5.0kg (12lbs)         | R410A x 5.0kg (12lbs)                 | R410A x 5.0kg (12lbs)                 | R410A x 5.0kg (12lbs)         |  |
| Net weight             | Type x original of       | kg (lbs)           | 181(400)                      | 181(400)                              | 181(400)                              | 181(400)                      |  |
| Heat exchanger         |                          | ing (ib3)          | plate type                    | plate type                            | plate type                            | plate type                    |  |
| . isat oxonungei       | Water volume in<br>plate | L                  | 5.0                           | 5.0                                   | 5.0                                   | 5.0                           |  |
|                        | Water pressure<br>Max.   | MPa                | 2.0                           | 2.0                                   | 2.0                                   | 2.0                           |  |
| Optional parts         | 1                        | 1                  |                               | ng kit: CMY-Q100VBK                   |                                       | ng kit: CMY-Q100VBK           |  |
|                        |                          |                    | JOINT CMY-Y102SS-G2.CMY-Y102L | S-G2,CMY-Y202S-G2,CMY-R160-J1         | Joint: CMY-Y102SS-G2,CMY-Y102L        | S-1-7 LMY-Y202S-1-7 LMY-R160- |  |

Notes:

| *1, | *2 Nominal conditio | ins                                      |                   |                   |                  |
|-----|---------------------|--|-------------------|-------------------|------------------|
|     |                     | Indoor                                   | Water temperature | Pipe length       | Level difference |
|     | Cooling             | 27°CD.B./19°CW.B.<br>(81°FD.B./66°FW.B.) | 30°C (86°F)       | 7.5m (24-9/16ft.) | 0m (0ft.)        |
|     | Heating             | 20°CD.B. (68°FD.B.)                      | 20°C (68°F)       |                   |                  |

\*3 The ambient temperature of the heat source unit needs to be kept below 40°CD.B.
\*4 The ambient relative humidity of the heat source unit needs to be kept below 80%.
\*5 The heat source Unit should not be installed at outdoor.
\*6 Be sure to mount a strainer (more than 50 meshes) at the water inlet piping of the unit.
\*7 Be sure to provide interlocking for the unit operation and water circuit.
\*Nominal condition \*1,\*2 are subject to JIS B8615-1.
\*Due to continuing improvement, above specification may be subject to change without notice.

Outdoor unit



## \*1,\*2 Nominal conditions

Notes:

|   |                   | Indoor                                   | Water temperature             | Pipe    |
|---|-------------------|--|-------------------------------|---------|
|   | Cooling           | 27°CD.B./19°CW.B.<br>(81°FD.B./66°FW.B.) | 30°C (86°F)                   | 7.5m (2 |
|   | Heating           | 20°CD.B. (68°FD.B.)                      | 20°C (68°F)                   |         |
| 3 | The ambient tempe | rature of the heat source unit ne        | eds to be kept below 40°CD.B. |         |

3 The ambient temperature or the neat source unit needs to be kept below 40%-D.B.
4 The ambient telative humidity of the heat source unit needs to be kept below 80%.
\*5 The heat source Unit should not be installed at outdoor.
\*6 Be sure to mount a strainer (more than 50 meshes) at the water inlet piping of the unit.
\*7 Be sure to provide interlocking for the unit operation and water circuit.
\*Nominal condition \*1,\*2 are subject to JIS B8615-1.
\*Due to continuing improvement, above specification may be subject to change without notice.





| ipe length     | Level difference |
|----------------|------------------|
| n (24-9/16ft.) | Om (Oft.)        |



## OUTDOOR UNIT Y Series PUHY-RP YJM-B(-BS)



## ► Specifications

| Model              |                      |            | PUHY-RP200YJM-B (-BS)  | PUHY-RP250YJM-B (-BS)  | PUHY-RP300YJM-B (-BS)  | PUHY-RP350YJM-B (-BS)  |
|--------------------|----------------------|------------|--|--|--|--|
| Power source       |                      |            | 3-phase 4-wire 380-400-415V 50/60Hz  |
| Cooling capacity   | *1                   | kW         | 22.4   | 28.0   | 33.5   | 40.0   |
| (Nominal)          | *1                   | Rour / II  | 19,300   | 24,100   | 28,800   | 34,400   |
|                    |                      | BTU / h    | 76,400   | 95,500   | 114,300  | 136,500  |
|                    | Power input          | kW         | 5.68   | 7.62   | 8.98   | 11.79  |
|                    | Current input        | A          | 9.5-9.1-8.7  | 12.8-12.2-11.7   | 15.1-14.4-13.8   | 19.9-18.9-18.2   |
|                    | EER                  | kW / kW    | 3.94   | 3.67   | 3.73   | 3.39   |
| Temp. range of     | Indoor               | W.B.       | 15.0~24.0°C (59~75°F)  | 15.0~24.0°C (59~75°F)  | 15.0~24.0°C (59~75°F)  | 15.0~24.0°C (59~75°F)  |
| cooling            | Outdoor              | D.B.       | -5.0~43.0°C (23~109°F)   | -5.0~43.0°C (23~109°F)   | -5.0~43.0°C (23~109°F)   | -5.0~43.0°C (23~109°F)   |
| Heating capacity   | *2                   | kW         | 25.0   | 31.5   | 37.5   | 45.0   |
| (Nominal)          | *2                   | kcal / h   | 21,500   | 27,100   | 32,300   | 38,700   |
|                    | *2                   | BTU / h    | 85,300   | 107,500  | 128,000  | 153,500  |
|                    | Power input          | kW         | 5.69   | 7.22   | 9.42   | 12.60  |
|                    | Current input        | Α          | 9.6-9.1-8.7  | 12.1-11.5-11.1   | 15.9-15.1-14.5   | 21.2-20.2-19.4   |
|                    | COP                  | kW / kW    | 4.39   | 4.36   | 3.98   | 3.57   |
| Temp. range of     | Indoor               | D.B.       | 15.0~27.0°C (59~81°F)  | 15.0~27.0°C (59~81°F)  | 15.0~27.0°C (59~81°F)  | 15.0~27.0°C (59~81°F)  |
| heating            | Outdoor              | W.B.       | -20.0~15.5°C (-4~60°F)   | -20.0~15.5°C (-4~60°F)   | -20.0~15.5°C (-4~60°F)   | -20.0~15.5°C (-4~60°F)   |
| Indoor unit        | Total capacity       |            | 50~130 % of outdoor unit capacity  |
| connectable        | Model / Quantity     |            | P15~P250 / 1~17  | P15~P250 / 1~21  | P15~P250 / 1~26  | P15~P250 / 1~30  |
| Sound pressure le  |                      |            |  |  |  |  |
| (measured in ane   |                      | dB <a></a> | 56   | 57   | 59   | 60   |
| Refrigerant piping | Liquid pipe          | mm (in.)   | 12.7 (1/2) Brazed  | 12.7 (1/2) Brazed  | 12.7 (1/2) Brazed  | 15.88 (5/8) Brazed   |
| diameter           | Gas pipe             | mm (in.)   | 28.58 (1-1/8) Brazed   | 28.58 (1-1/8) Brazed   | 28.58 (1-1/8) Brazed   | 34.93 (1-3/8) Brazed   |
| FAN                | Type x Quantity      |            | Propeller fan x 1  |
|                    | Air flow rate        | m³/min     | 185  | 185  | 185  | 185  |
|                    |                      | L/s        | 3,083  | 3,083  | 3,083  | 3,083  |
|                    |                      | cfm        | 6,532  | 6,532  | 6,532  | 6,532  |
|                    | Control, Driving m   | echanism   |  | Inverter-control, Direct-driven by motor                                   | Inverter-control, Direct-driven by motor                                   | Inverter-control, Direct-driven by motor                                   |
|                    | Motor output         | kW         | 0.92 x 1   | 0.92 x 1   | 0.92 x 1   | 0.92 x 1   |
| *3                 | External static pr   | ess.       | 0 Pa (0 mmH <sub>2</sub> O)  |
| Compressor         | Type x Quantity      |            | Inverter scroll hermetic compressor  |
|                    | Starting method      |            | Inverter   | Inverter   | Inverter   | Inverter   |
|                    | Motor output         | kW         | 4.8  | 6.8  | 8.2  | 9.9  |
|                    | Case heater          | kW         | 0.035 (240V)   | 0.045 (240V)   | 0.045 (240V)   | 0.045 (240V)   |
| External finish    | •                    |            | Pre-coated galvanized steel sheets   |
|                    |                      |            | (+powder coating for -BS type)   |
|                    |                      |            | <munsell 1="" 5y="" 8="" or="" similar=""></munsell>                       |
| External dimensio  | n HxWxD              | mm         | 1,710(1,650 without legs)<br>x 920 x 760                                   |
|                    |                      | in.        | 67-3/8 (65 without legs)   |
|                    |                      |            | x 36-1/4 x 29-15/16  |
| Protection         | High pressure pr     | otection   | High pressure sensor, High pressure<br>switch at 4.15,3.3MPa (601,479 psi) | High pressure sensor, High pressure<br>switch at 4.15,3.3MPa (601,479 psi) | High pressure sensor, High pressure<br>switch at 4.15,3.3MPa (601,479 psi) | High pressure sensor, High pressure<br>switch at 4.15,3.3MPa (601,479 psi) |
| devices            | Inverter circuit (CO | MP./ FAN)  | Over-heat protection,  | Over-heat protection,  | Over-heat protection,  | Over-heat protection,  |
|                    |                      |            | Over-current protection  | Over-current protection  | Over-current protection  | Over-current protection  |
|                    | Compressor           |            | Over-heat protection   | Over-heat protection   | Over-heat protection   | Over-heat protection   |
|                    | Fan motor            |            | Thermal switch   | Thermal switch   | Thermal switch   | Thermal switch   |
| Refrigerant        | Type x original ch   | narge      | R410A x 6.5kg (15lbs)  | R410A x 9.0kg (20lbs)  | R410A x 9.0kg (20lbs)  | R410A x 9.0kg (20lbs)  |
| Net weight         |                      | kg (lbs)   | 230(508)   | 255 (563)  | 255 (563)  | 255 (563)  |
| Heat exchanger     |                      |            | Salt-resistant cross fin & copper tube                                     |  | Salt-resistant cross fin & copper tube                                     |  |
| Optional parts     |                      |            |  | Header: CMY-Y104/108/1010-G  |  |  |
|                    |                      |            |  |  |  |  |

## OUTDOOR UNIT Y Series PUHY-RP YSJM-B(-BS)

## ► Specifications

| Model  |  |  | PUHY-RP400   | YSJM-B (-BS)  | PUHY-RP450   | YSJM-B (-BS)  |
|--|--|--|--|---|--|---|
| Power source   |  | 3-phase 4-wire 380   | -400-415V 50/60Hz  | 3-phase 4-wire 380  | -400-415V 50/60Hz  |   |
| Cooling capacity   | capacity *1 kW   |  | 45   | .0  | 50   | 0.0   |
| (Nominal)  | *  | 1 kcal / h   | 38,  | 700   | 43,0   | 000   |
| · · · ·  | **   | 1 BTU/h  | 153  |   | 170.   |   |
|  | Power input  | kW   | 11.  | 87  | 13.  | 77  |
|  | Current input  | A  | 20.0-19.0-18.3   |   | 23.2-22  |   |
|  | EER  | kW / kW  | 3.   | 79  | 3.0  |   |
| Temp. range of   | Indoor   | W.B.   | 15.0~24.0°0  | C (59~75°F)   | 15.0~24.0°C  |   |
| cooling  | Outdoor  | D.B.   |  | (23~109°F)  | -5.0~43.0°C  |   |
| Heating capacity   | **   |  |  | 50.0  |  | .0  |
| (Nominal)  | **   |  | 43.  | · · · · · · · · · · · · · · · · · · ·   | 48.2   |   |
|  | **   | 2 BTU/h  |  | 600   | 191.   |   |
|  | Power input  | kW   | 11.  |   | 12   |   |
|  | Current input  | A  | 19.2-18  |   | 21.6-20  |   |
|  | COP  | kW / kW  |  |   | 4.3  |   |
| Temp. range of   | Indoor   | D.B.   | 15.0~27.0°0  |   | 15.0~27.0°0  |   |
| heating  | Outdoor  | W.B.   | -20.0~15.5°  |   | -20.0~15.5°  |   |
| Indoor unit  | Total capacity   | W.D.   |  | door unit capacity  | 50~130 % of outo   |   |
| connectable  | Model / Quantity   | /  | P15~P25  |   |  |   |
| Sound pressure le  | evel   | dB <a></a>   | 5  |   | P15~P250 / 1~32<br>59.5  |   |
| (measured in ane   | , ,  | -  |  |   |  |   |
| Refrigerant piping   |  | mm (in.)   |  |   | 15.88 (5/8) Brazed   |   |
| diameter   | Gas pipe   | mm (in.)   | 34.93 (1-3   | /8) Brazed  | 34.93 (1-3   | /8) Brazed  |
| Set Model  |  |  |  |   |  |   |
| Model  |  |  | PUHY-RP200YJM-B (-BS)  | PUHY-RP200YJM-B (-BS)   | PUHY-RP200YJM-B (-BS)  | PUHY-RP250YJM-B (-BS)   |
| FAN  | Type x Quantity  |  | Propeller fan x 1  | Propeller fan x 1   | Propeller fan x 1  | Propeller fan x 1   |
|  | Air flow rate  | m <sup>3</sup> /min  | 185  | 185   | 185  | 185   |
|  |  | L/s  | 3,083  | 3,083   | 3,083  | 3,083   |
|  |  | cfm  | 6,532  | 6,532   | 6,532  | 6,532   |
|  | Control, Driving n   |  |  | ect-driven by motor   | Inverter-control, Dir  |   |
|  | Motor output   | kW   | 0.92 x 1   | 0.92 x 1  | 0.92 x 1   | 0.92 x 1  |
| *3   | External static p  |  | 0 Pa (0 mmH <sub>2</sub> O)  | 0 Pa (0 mmH <sub>2</sub> O)   | 0 Pa (0 mmH <sub>2</sub> O)  | 0 Pa (0 mmH₂O)  |
|  | Type x Quantity  |  | Inverter scroll her  | metic compressor  | Invertor coroll her  |   |
| Compressor   |  |  |  |   |  | metic compressor  |
| Compressor   | Starting method  |  | Inverter   | Inverter  | Inverter   | Inverter  |
| Compressor   | Starting method<br>Motor output  | kW   | Inverter<br>4.8  | 4.8   | Inverter<br>4.8  | Inverter<br>6.8   |
| •  | Starting method  |  | Inverter<br>4.8<br>0.035 (240V)  | 4.8<br>0.035 (240V)   | Inverter<br>4.8<br>0.035 (240V)  | Inverter<br>6.8<br>0.045 (240V)   |
| •  | Starting method<br>Motor output  | kW   | Inverter<br>4.8<br>0.035 (240V)<br>Pre-coated galvanized steel shee  | 4.8<br>0.035 (240V)   | Inverter<br>4.8  | Inverter<br>6.8<br>0.045 (240V)<br>ts (+powder coating for -BS type   |
| External finish  | Starting method<br>Motor output<br>Case heater   | kW   | Inverter<br>4.8<br>0.035 (240V)<br>Pre-coated galvanized steel shee  | 4.8<br>0.035 (240V)<br>ts (+powder coating for -BS type)  | Inverter<br>4.8<br>0.035 (240V)<br>Pre-coated galvanized steel shee  | Inverter<br>6.8<br>0.045 (240V)<br>ts (+powder coating for -BS type   |
| External finish  | Starting method<br>Motor output<br>Case heater   | kW<br>kW   | Inverter<br>4.8<br>0.035 (240V)<br>Pre-coated galvanized steel shee<br><munsell 5y<br="">1,710 (1,650 without legs)<br/>x 920 x 760<br/>67-3/8 (65 without legs)</munsell>   | 4.8<br>0.035 (240V)<br>ts (+powder coating for -BS type)<br>8/1 or similar><br>1,710 (1,650 without legs)<br>x 920 x 760<br>67-3/8 (65 without legs)  | Inverter<br>4.8<br>0.035 (240V)<br>Pre-coated galvanized steel shee<br><munsell 5y<br="">1,710 (1,650 without legs)<br/>x 920 x 760<br/>67-3/8 (65 without legs)</munsell>   | Inverter<br>6.8<br>0.045 (240V)<br>ts (+powder coating for -BS type<br>8/1 or similar><br>1,710 (1,650 without legs)<br>x 920 x 760<br>67-3/8 (65 without legs)   |
| External finish<br>External dimensio   | Starting method<br>Motor output<br>Case heater<br>n HxWxD  | kW<br>kW<br>mm<br>in.  | Inverter<br>4.8<br>0.035 (240V)<br>Pre-coated galvanized steel shee<br><munsell 5y<br="">1,710 (1,650 without legs)<br/>x 920 x 760<br/>67-3/8 (65 without legs)<br/>x 36-1/4 x 29-15/16</munsell>   | 4.8<br>0.035 (240V)<br>ts (+powder coating for -BS type)<br>8/1 or similar><br>1,710 (1,650 without legs)<br>x 920 x 760<br>67-3/8 (65 without legs)<br>x 36-1/4 x 29-15/16   | Inverter<br>4.8<br>0.035 (240V)<br>Pre-coated galvanized steel shee<br><munsell 5y<br="">1,710 (1,650 without legs)<br/>x 920 x 760<br/>67-3/8 (65 without legs)<br/>x 36-1/4 x 29-15/16</munsell>   | Inverter<br>6.8<br>0.045 (240V)<br>ts (+powder coating for -BS type<br>8/1 or similar><br>1,710 (1,650 without legs)<br>x 920 x 760<br>67-3/8 (65 without legs)<br>x 36-1/4 x 29-15/16  |
| External finish<br>External dimensio<br>Protection   | Starting method<br>Motor output<br>Case heater<br>n HxWxD<br>High pressure p   | kW<br>kW<br>mm<br>in.<br>rotection                             | Inverter           4.8           0.035 (240V)           Pre-coated galvanized steel shee              4.8           0.035 (240V)           Pre-coated galvanized steel shee              4.8           0.010 (1,650 without legs)           x 920 x 760           67-3/8 (65 without legs)           x 36-1/4 x 29-15/16           High pressure sensor, High pressure   | 4.8<br>0.035 (240V)<br>ts (+powder coating for -BS type)<br>8/1 or similar><br>1,710 (1,650 without legs)<br>x 920 x 760<br>67-3/8 (65 without legs)<br>x 36-1/4 x 29-15/16<br>switch at 4.15,3.3MPa (601,479 psi)  | Inverter           4.8           0.035 (240V)           Pre-coated galvanized steel shee <munsell 5y<="" td="">           1,710 (1,650 without legs)           x 920 x 760           67-3/8 (65 without legs)           x 36-1/4 x 29-15/16           High pressure sensor, High pressure</munsell>  | Inverter<br>6.8<br>0.045 (240V)<br>ts (+powder coating for -BS type<br>8/1 or similar><br>1,710 (1,650 without legs)<br>x 920 x 760<br>67-3/8 (65 without legs)<br>x 36-1/4 x 29-15/16<br>switch at 4.15,3.3MPa (601,479 ps   |
| External finish<br>External dimensio<br>Protection   | Starting method<br>Motor output<br>Case heater<br>n HxWxD<br>High pressure p<br>Inverter circuit (CC   | kW<br>kW<br>mm<br>in.<br>rotection                             | Inverter           4.8           0.035 (240V)           Pre-coated galvanized steel shee <munsell 5y<="" td="">           1,710 (1,650 without legs)           x 920 x 760           67-3/8 (65 without legs)           x 36-1/4 x 29-15/16           High pressure sensor, High pressure           Over-heat protection, 0</munsell>  | 4.8<br>0.035 (240V)<br>ts (+powder coating for -BS type)<br>8/1 or similar><br>1,710 (1,650 without legs)<br>x 920 x 760<br>67-3/8 (65 without legs)<br>x 36-1/4 x 29-15/16<br>switch at 4.15,3.3MPa (601,479 psi)<br>Over-current protection   | Inverter<br>4.8<br>0.035 (240V)<br>Pre-coated galvanized steel shee<br>< <u>MUNSELL 5Y</u><br>1,710 (1,650 without legs)<br>x 920 x 760<br>67-3/8 (65 without legs)<br>x 36-1/4 x 29-15/16<br>High pressure sensor, High pressure<br>Over-heat protection, C   | Inverter           6.8           0.045 (240V)           ts (+powder coating for -BS type           8/1 or similar>           1,710 (1,650 without legs)           x 920 x 760           67-3/8 (65 without legs)           x 36-1/4 x 29-15/16           switch at 4.15,3.3MPa (601,479 ps)           >ver-current protection   |
| External finish<br>External dimensio<br>Protection   | Starting method<br>Motor output<br>Case heater<br>n HxWxD<br>High pressure p<br>Inverter circuit (CC<br>Compressor                                   | kW<br>kW<br>mm<br>in.<br>rotection                             | Inverter<br>4.8<br>0.035 (240V)<br>Pre-coated galvanized steel shee<br><pre><munsell 5y<br="">1,710 (1,650 without legs)<br/>x 920 x 760<br/>67-3/8 (65 without legs)<br/>x 36-1/4 x 29-15/16<br/>High pressure sensor, High pressure<br/>Over-heat protection, (<br/>Over-heat</munsell></pre>  | 4.8<br>0.035 (240V)<br>ts (+powder coating for -BS type)<br>8/1 or similar><br>1,710 (1,650 without legs)<br>x 920 x 760<br>67-3/8 (65 without legs)<br>x 36-1/4 x 29-15/16<br>switch at 4.15,3.3MPa (601,479 psi)<br>Dver-current protection<br>protection   | Inverter<br>4.8<br>0.035 (240V)<br>Pre-coated galvanized steel shee<br><munsell 5y<br="">1,710 (1,650 without legs)<br/>x 30 x 760<br/>67-3/8 (65 without legs)<br/>x 36-1/4 x 29-15/16<br/>High pressure sensor, High pressure<br/>Over-heat protection, (<br/>Over-heat</munsell>  | Inverter<br>6.8<br>0.045 (240V)<br>ts (+powder coating for -BS type<br>8/1 or similar><br>1,710 (1,650 without legs)<br>x 920 x 760<br>67-3/8 (65 without legs)<br>x 36-1/4 x 29-15/16<br>switch at 4.15,3.3MPa (601,479 ps)<br>Dver-current protection<br>protection   |
| External finish<br>External dimensio<br>Protection<br>devices  | Starting method<br>Motor output<br>Case heater<br>n HxWxD<br>High pressure p<br>Inverter circuit (CC<br>Compressor<br>Fan motor                      | kW<br>kW<br>in.<br>rotection<br>DMP/ FAN)                      | Inverter<br>4.8<br>0.035 (240V)<br>Pre-coated galvanized steel shee<br><munsell 5y<br="">1,710 (1,650 without legs)<br/>x 920 x 760<br/>67-3/8 (65 without legs)<br/>x 36-1/4 x 29-15/16<br/>High pressure sensor, High pressure<br/>Over-heat protection, C<br/>Over-heat<br/>Thermal switch</munsell>  | 4.8<br>0.035 (240V)<br>ts (+powder coating for -BS type)<br>8/1 or similar><br>1,710 (1,650 without legs)<br>x 920 x 760<br>67-3/8 (65 without legs)<br>x 36-1/4 x 29-15/16<br>switch at 4.15,3.3MPa (601,479 psi)<br>Dver-current protection<br>protection<br>Thermal switch   | Inverter<br>4.8<br>0.035 (240V)<br>Pre-coated galvanized steel shee<br><munsell 5y<br="">1,710 (1.650 without legs)<br/>x 920 x 760<br/>67-3/8 (65 without legs)<br/>x 36-1/4 x 29-15/16<br/>High pressure sensor, High pressure<br/>Over-heat protection, C<br/>Over-heat switch</munsell>  | Inverter<br>6.8<br>0.045 (240V)<br>ts (+powder coating for -BS type<br>8/1 or similar><br>1,710 (1,650 without legs)<br>x 920 x 760<br>67-3/8 (65 without legs)<br>x 36-1/4 x 29-15/16<br>switch at 4.15,3.3MPa (601,479 ps)<br>Over-current protection<br>protection<br>Thermal switch   |
| External finish<br>External dimensio<br>Protection<br>devices<br>Refrigerant   | Starting method<br>Motor output<br>Case heater<br>n HxWxD<br>High pressure p<br>Inverter circuit (CC<br>Compressor                                   | kW<br>kW<br>in.<br>rotection<br>OMP./ FAN)                     | Inverter<br>4.8<br>0.035 (240V)<br>Pre-coated galvanized steel shee<br><munsell 5y<br="">1,710 (1,650 without legs)<br/>x 920 x 760<br/>67-3/8 (65 without legs)<br/>x 36-1/4 x 29-15/16<br/>High pressure sensor, High pressure<br/>Over-heat protection, (<br/>Over-heat<br/>Thermal switch<br/>R410A x 6.5kg (15lbs)</munsell>  | 4.8<br>0.035 (240V)<br>ts (+powder coating for -BS type)<br>8/1 or similar><br>1,710 (1,650 without legs)<br>x 920 x 760<br>67-3/8 (65 without legs)<br>x 36-1/4 x 29-15/16<br>switch at 4.15,3.3MPa (601,479 psi)<br>Dver-current protection<br>protection<br>Thermal switch<br>R410A x 6.5kg (15lbs)  | Inverter<br>4.8<br>0.035 (240V)<br>Pre-coated galvanized steel shee<br><munsell 5y<br="">1,710 (1,650 without legs)<br/>x 920 x 760<br/>67-3/8 (65 without legs)<br/>x 36-1/4 x 29-15/16<br/>High pressure sensor, High pressure<br/>Over-heat protection, 0<br/>Over-heat<br/>Thermal switch<br/>R410A x 6.5kg (15lbs)</munsell>  | Inverter<br>6.8<br>0.045 (240V)<br>ts (+powder coating for -BS type<br>8/1 or similar><br>1,710 (1,650 without legs)<br>x 920 x 760<br>67-3/8 (65 without legs)<br>x 36-1/4 x 29-15/16<br>switch at 4.15,3.3MPa (601,479 ps<br>)ver-current protection<br>protection<br>Thermal switch<br>R410A x 9.0kg (20lbs)   |
| External finish<br>External dimensio<br>Protection<br>devices<br>Refrigerant<br>Net weight   | Starting method<br>Motor output<br>Case heater<br>n HxWxD<br>High pressure p<br>Inverter circuit (CC<br>Compressor<br>Fan motor                      | kW<br>kW<br>in.<br>rotection<br>DMP/ FAN)                      | Inverter           4.8           0.035 (240V)           Pre-coated galvanized steel shee <munsell 5y<="" td="">           1,710 (1,650 without legs)           x 320 x 760           67-3/8 (65 without legs)           x 36-1/4 x 29-15/16           High pressure sensor, High pressure           Over-heat protection, (           Over-heat protection, (           Thermal switch           R410A x 6.5kg (15lbs)           230 (508)</munsell>   | 4.8<br>0.035 (240V)<br>ts (+powder coating for -BS type)<br>8/1 or similar><br>1,710 (1,650 without legs)<br>x 920 x 760<br>67-3/8 (65 without legs)<br>x 36-1/4 x 29-15/16<br>switch at 4.15,3.3MPa (601,479 psi)<br>Dver-current protection<br>protection<br>Thermal switch<br>R410A x 6.5kg (15lbs)<br>230 (508)   | Inverter<br>4.8<br>0.035 (240V)<br>Pre-coated galvanized steel shee<br><nunsell 5y<br="">1,710 (1,650 without legs)<br/>x 320 x 760<br/>67-3/8 (65 without legs)<br/>x 36-1/4 x 29-15/16<br/>High pressure sensor, High pressure<br/>Over-heat protection, (<br/>Over-heat protection, (<br/>Dver-heat<br/>Thermal switch<br/>R410A x 6.5kg (15lbs)<br/>230 (508)</nunsell>                                    | Inverter<br>6.8<br>0.045 (240V)<br>ts (+powder coating for -BS type<br>8/1 or similar><br>1,710 (1,650 without legs)<br>x 320 x 760<br>67-3/8 (65 without legs)<br>x 36-1/4 x 29-15/16<br>switch at 4.15,3.3MPa (601,479 ps)<br>ver-current protection<br>protection<br>Thermal switch<br>R410A x 9.0kg (20lbs)<br>255 (563)  |
| External finish<br>External dimensio<br>Protection<br>devices<br>Refrigerant<br>Net weight<br>Heat exchanger   | Starting method<br>Motor output<br>Case heater<br>n HxWxD<br>High pressure p<br>Inverter circuit (CC<br>Compressor<br>Fan motor<br>Type x original c | kW<br>kW<br>in.<br>rotection<br>OMP./ FAN)                     | Inverter<br>4.8<br>0.035 (240V)<br>Pre-coated galvanized steel shee<br><pre><munsell 5y<br="">1,710 (1,650 without legs)<br/>x 920 x 760<br/>67-3/8 (65 without legs)<br/>x 36-1/4 x 29-15/16<br/>High pressure sensor, High pressure<br/>Over-heat protection, (<br/>Over-heat<br/>Thermal switch<br/>R410A x 6.5kg (15lbs)<br/>230 (508)<br/>Salt-resistant cross</munsell></pre>  | 4.8<br>0.035 (240V)<br>ts (+powder coating for -BS type)<br>8/1 or similar><br>1,710 (1,650 without legs)<br>x 920 x 760<br>67-3/8 (65 without legs)<br>x 36-1/4 x 29-15/16<br>switch at 4.15,3.3MPa (601,479 psi)<br>Dver-current protection<br>protection<br>Thermal switch<br>R410A x 6.5kg (15lbs)<br>230 (508)<br>s fin & copper tube                      | Inverter<br>4.8<br>0.035 (240V)<br>Pre-coated galvanized steel shee<br><munsell 5y<br="">1,710 (1,650 without legs)<br/>x 30 x 760<br/>67-3/8 (65 without legs)<br/>x 36-1/4 x 29-15/16<br/>High pressure sensor, High pressure<br/>Over-heat protection, (<br/>Over-heat<br/>Thermal switch<br/>R410A x 6.5kg (15lbs)<br/>230 (508)<br/>Salt-resistant cross</munsell>  | Inverter<br>6.8<br>0.045 (240V)<br>ts (+powder coating for -BS type<br>8/1 or similar><br>1,710 (1,650 without legs)<br>x 920 x 760<br>67-3/8 (65 without legs)<br>x 36-1/4 x 29-15/16<br>switch at 4.15,3.3MPa (601,479 ps<br>Dver-current protection<br>protection<br>Thermal switch<br>R410A x 9.0kg (20lbs)<br>255 (563)<br>s fin & copper tube   |
| External finish<br>External dimensio<br>Protection<br>devices<br>Refrigerant<br>Net weight<br>Heat exchanger<br>Pipe between unit  | Starting method<br>Motor output<br>Case heater<br>n HxWxD<br>High pressure p<br>Inverter circuit (CC<br>Compressor<br>Fan motor<br>Type x original c | kW<br>kW<br>in.<br>rotection<br>OMP/FAN)<br>charge<br>kg (lbs) | Inverter<br>4.8<br>0.035 (240V)<br>Pre-coated galvanized steel shee<br><munsell 5y<br="">1,710 (1,650 without legs)<br/>x 920 x 760<br/>67-3/8 (65 without legs)<br/>x 36-1/4 x 29-15/16<br/>High pressure sensor, High pressure<br/>Over-heat protection, (<br/>Over-heat protection, (<br/>Over-heat switch<br/>R410A x 6.5kg (15lbs)<br/>230 (508)<br/>Salt-resistant cross<br/>9.52 (3/8) Brazed</munsell>   | 4.8<br>0.035 (240V)<br>ts (+powder coating for -BS type)<br>8/1 or similar><br>1,710 (1,650 without legs)<br>x 920 x 760<br>67-3/8 (65 without legs)<br>x 36-1/4 x 29-15/16<br>switch at 4.15,3.3MPa (601,479 psi)<br>2ver-current protection<br>protection<br>Thermal switch<br>R410A x 6.5kg (15lbs)<br>230 (508)<br>s fin & copper tube<br>9.52 (3/8) Brazed | Inverter<br>4.8<br>0.035 (240V)<br>Pre-coated galvanized steel shee<br><munsell 5y<br="">1,710 (1,650 without legs)<br/>x 920 x 760<br/>67-3/8 (65 without legs)<br/>x 36-1/4 x 29-15/16<br/>High pressure sensor, High pressure<br/>Over-heat protection, C<br/>Over-heat protection, C<br/>Over-heat switch<br/>R410A x 6.5kg (15lbs)<br/>230 (508)<br/>Salt-resistant cross<br/>9.52 (3/8) Brazed</munsell> | Inverter<br>6.8<br>0.045 (240V)<br>ts (+powder coating for -BS type<br>8/1 or similar><br>1,710 (1,650 without legs)<br>x 920 x 760<br>67-3/8 (65 without legs)<br>x 36-1/4 x 29-15/16<br>switch at 4.15,3.3MPa (601,479 ps<br>2ver-current protection<br>protection<br>Thermal switch<br>R410A x 9.0kg (20lbs)<br>255 (563)<br>s fin & copper tube<br>9.52 (3/8) Brazed  |
| Compressor<br>External finish<br>External dimensio<br>Protection<br>devices<br>Refrigerant<br>Net weight<br>Heat exchanger<br>Pipe between unit<br>and distributor<br>Optional parts | Starting method<br>Motor output<br>Case heater<br>n HxWxD<br>High pressure p<br>Inverter circuit (CC<br>Compressor<br>Fan motor<br>Type x original c | kW<br>kW<br>in.<br>rotection<br>OMP./ FAN)                     | Inverter           4.8           0.035 (240V)           Pre-coated galvanized steel shee <munsell 5y<="" td="">           1,710 (1,650 without legs)           x 320 x 760           67-3/8 (65 without legs)           x 36-1/4 x 29-15/16           High pressure sensor, High pressure           Over-heat protection, (           Over-heat           Thermal switch           R410A x 6.5kg (15lbs)           230 (508)           Salt-resistant cross           9.52 (3/8) Brazed           19.05 (3/4) Brazed</munsell> | 4.8<br>0.035 (240V)<br>ts (+powder coating for -BS type)<br>8/1 or similar><br>1,710 (1,650 without legs)<br>x 920 x 760<br>67-3/8 (65 without legs)<br>x 36-1/4 x 29-15/16<br>switch at 4.15,3.3MPa (601,479 psi)<br>Dver-current protection<br>protection<br>Thermal switch<br>R410A x 6.5kg (15lbs)<br>230 (508)<br>s fin & copper tube                      | Inverter<br>4.8<br>0.035 (240V)<br>Pre-coated galvanized steel shee<br><munsell 5y<br="">1,710 (1,650 without legs)<br/>x 30 x 760<br/>67-3/8 (65 without legs)<br/>x 36-1/4 x 29-15/16<br/>High pressure sensor, High pressure<br/>Over-heat protection, (<br/>Over-heat<br/>Thermal switch<br/>R410A x 6.5kg (15lbs)<br/>230 (508)<br/>Salt-resistant cross</munsell>  | Inverter           6.8           0.045 (240V)           ts (+powder coating for -BS type           8/1 or similar>           1,710 (1,650 without legs)           x 920 x 760           67-3/8 (65 without legs)           x 36-1/4 x 29-15/16           switch at 4.15,3.3MPa (601,479 ps)           >ver-current protection           protection           Thermal switch           R410A x 9.0kg (20lbs)           255 (563)           s fin & copper tube           9.52 (3/8) Brazed           22.2 (7/8) Brazed |

#### Notes:

\*1,\*2 Nominal conditions

|         | Indoor                           | Outdoor                     | Pipe length       | Level difference |
|---------|----------------------------------|-----------------------------|-------------------|------------------|
| Cooling | 27°CDB/19°CWB<br>(81°FDB/66°FWB) | 35°CDB (95°FDB)             | 7.5m (24-9/16ft.) | 0m (0ft.)        |
| Heating | 20°CDB(68°FDB)                   | 7°CDB/6°CWB (45°FDB/43°FWB) | 7.5m (24-9/16ft.) | 0m (0ft.)        |

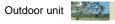
\*3. External static pressure option is available (30Pa, 60Pa / 3.1mmH<sub>2</sub>O, 6.1mmH<sub>2</sub>O). \*Nominal condition \*1,\*2 are subject to JIS B8615-1. \*Due to continuing improvement, above specifications may be subject to change without notice. \*Our company is unable to guarantee reliability of pre-existing pipes and pre-existing cables.

Notes:

| 2 Nominal conditi | ons                              |                             |                   |                  |
|-------------------|----------------------------------|-----------------------------|-------------------|------------------|
|                   | Indoor                           | Outdoor                     | Pipe length       | Level difference |
| Cooling           | 27°CDB/19°CWB<br>(81°FDB/66°FWB) | 35°CDB (95°FDB)             | 7.5m (24-9/16ft.) | 0m (0ft.)        |
| Heating           | 20°CDB(68°FDB)                   | 7°CDB/6°CWB (45°FDB/43°FWB) | 7.5m (24-9/16ft.) | 0m (0ft.)        |

\*3. External static pressure option is available (30Pa, 60Pa / 3.1mmH<sub>2</sub>O, 6.1mmH<sub>2</sub>O). \*Nominal condition \*1,\*2 are subject to JIS B8615-1. \*Due to continuing improvement, above specifications may be subject to change without notice. \*Our company is unable to guarantee reliability of pre-existing pipes and pre-existing cables.

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## OUTDOOR UNIT Y Series PUHY-RP YSJM-B(-BS)



PUHY-RP550YSJM-B (-BS)

## ► Specifications

Model

| Power source                           |                      |               | 3-phase 4-wire 380  | -400-415V 50/60Hz                               | 3-phase 4-wire 380  | -400-415V 50/60Hz                               |
|--|----------------------|---------------|---|---|---|---|
| Cooling capacity                       | *1                   |               | 56  | .0  | 63  | 3.0   |
| (Nominal)                              | *1                   | kcal / h      | 48,3  | 200   | 54,2  | 200   |
|  |                      | BTU / h       | 191,100   |   | 215,000   |   |
|  | Power input          | kW            | 15.   | 68  | 17.   | .50   |
|  | Current input        | A             | 26.4-25   | .1-24.2   | 29.5-28   | 3.0-27.0  |
|  | EER                  | kW / kW       | 3.  |   | 3.0   | 60  |
| Temp. range of                         | Indoor               | W.B.          | 15.0~24.0°0   | C (59~75°F)                                     | 15.0~24.0°C   | C (59~75°F)                                     |
| cooling                                | Outdoor              | D.B.          | -5.0~43.0°C   | (23~109°F)                                      | -5.0~43.0°C   | (23~109°F)                                      |
| Heating capacity                       | *2                   |               | 63  | .0  | 69  | 0.0   |
| (Nominal)                              | *2                   |               | 54,3  | 200   | 59,3  | 300   |
|  |                      | BTU / h       | 215   |   | 235,  | ,400  |
|  | Power input          | kW            |   | 44  | 16.   | .62   |
|  | Current input        | A             | 24.3-23   | .1-22.3   | 28.0-26   | 6.6-25.6  |
|  | COP                  | kW / kW       | 4.:   | 36  | 4.1   | 15  |
| Temp. range of                         | Indoor               | D.B.          | 15.0~27.0°0   | C (59~81°F)                                     | 15.0~27.0°C   | C (59~81°F)                                     |
| heating                                | Outdoor              | W.B.          | -20.0~15.5°   | C (-4~60°F)                                     | -20.0~15.5°   | C (-4~60°F)                                     |
| Indoor unit                            | Total capacity       |               | 50~130 % of out   |   | 50~130 % of out   |   |
| connectable                            | Model / Quantity     |               | P15~P25   | 50 / 1~32                                       | P15~P25   | 50 / 1~32                                       |
| Sound pressure le<br>(measured in aneo |                      | dB <a></a>    | 6   | 0   | 6   | 1   |
| Refrigerant piping                     | Liquid pipe          | mm (in.)      | 15.88 (5/8) Brazed  |   | 15.88 (5/8) Brazed  |   |
| diameter                               | Gas pipe             | mm (in.)      | 34.93 (1-3/8) Brazed  |   | 34.93 (1-3/8) Brazed  |   |
| Set Model                              |                      |               |   |   |   |   |
| Model                                  |                      |               | PUHY-RP250YJM-B (-BS)   | PUHY-RP250YJM-B (-BS)                           | PUHY-RP250YJM-B (-BS)   | PUHY-RP300YJM-B (-BS)                           |
| FAN                                    | Type x Quantity      |               | Propeller fan x 1   | Propeller fan x 1                               | Propeller fan x 1   | Propeller fan x 1                               |
|  | Air flow rate        | m³/min        | 185   | 185   | 185   | 185   |
|  |                      | L/s           | 3,083   | 3,083   | 3,083   | 3,083   |
|  |                      | cfm           | 6,532   | 6,532   | 6,532   | 6,532   |
|  | Control, Driving m   | echanism      | Inverter-control, Direct-driven by motor  |   | Inverter-control, Dir   | ect-driven by motor                             |
|  | Motor output         | kW            | 0.92 x 1  | 0.92 x 1  | 0.92 x 1  | 0.92 x 1  |
| *3                                     | External static pr   | ess.          | 0 Pa (0 mmH <sub>2</sub> O)   | 0 Pa (0 mmH <sub>2</sub> O)                     | 0 Pa (0 mmH <sub>2</sub> O)   | 0 Pa (0 mmH <sub>2</sub> O)                     |
| Compressor                             | Type x Quantity      |               | Inverter scroll her   | metic compressor                                | Inverter scroll her   | metic compressor                                |
|  | Starting method      |               | Inverter  | Inverter  | Inverter  | Inverter  |
|  | Motor output         | kW            | 6.8   | 6.8   | 6.8   | 8.2   |
|  | Case heater          | kW            | 0.045 (240V)  | 0.045 (240V)                                    | 0.045 (240V)  | 0.045 (240V)                                    |
| External finish                        |                      |               | Pre-coated galvanized steel sheets (+powder coating for -BS type)<br><munsell 1="" 5y="" 8="" or="" similar=""></munsell> |   | Pre-coated galvanized steel sheets (+powder coating for -BS typ<br><munsell 1="" 5y="" 8="" or="" similar=""></munsell> |   |
| External dimension                     | n HxWxD              | mm            | 1,710 (1,650 without legs)<br>x 920 x 760   | 1,710 (1,650 without legs)<br>x 920 x 760       | 1,710 (1,650 without legs)<br>x 920 x 760   | 1,710 (1,650 without legs)<br>x 920 x 760       |
|  |                      | in.           | 67-3/8 (65 without legs)<br>x 36-1/4 x 29-15/16   | 67-3/8 (65 without legs)<br>x 36-1/4 x 29-15/16 | 67-3/8 (65 without legs)<br>x 36-1/4 x 29-15/16   | 67-3/8 (65 without legs)<br>x 36-1/4 x 29-15/16 |
| Protection                             | High pressure pr     | otection      |   |   | High pressure sensor, High pressure   |   |
| devices                                | Inverter circuit (CC |               |   | Over-current protection                         |   | Over-current protection                         |
|  | Compressor           |               |   | protection                                      |   | protection                                      |
|  | Fan motor            |               | Thermal switch  | Thermal switch                                  | Thermal switch  | Thermal switch                                  |
| Refrigerant                            | Type x original cl   | narge         | R410A x 9.0kg (20lbs)   | R410A x 9.0kg (20lbs)                           | R410A x 9.0kg (20lbs)   | R410A x 9.0kg (20lbs)                           |
| Net weight                             | - Jro A original of  | kg (lbs)      | 255 (563)   | 255 (563)                                       | 255 (563)   | 255 (563)                                       |
| Heat exchanger                         |                      |               | Salt-resistant cross  |   |   | s fin & copper tube                             |
| Pipe between unit                      | l iquid pine         | mm (in.)      | 9.52 (3/8) Brazed   | 9.52 (3/8) Brazed                               | 9.52 (3/8) Brazed   | 12.7 (1/2) Brazed                               |
| and distributor                        | Gas pipe             | mm (in.)      | 22.2 (7/8) Brazed   | 22.2 (7/8) Brazed                               | 22.2 (7/8) Brazed   | 22.2 (7/8) Brazed                               |
| Optional parts                         | Cas hipe             | [110011 (01.) |   | it: CMY-RP100VBK                                | Outdoor Twinning k  |   |
|  |                      |               | Header: CMY-Y   |   | Header: CMY-Y   |   |

PUHY-RP500YSJM-B (-BS)

## OUTDOOR UNIT Y Series PUHY-RP YSJM-B(-BS)

## ► Specifications

| Model   |   |   | PUHY-RP600  | YSJM-B (-BS)   | PUHY-RP650   | YSJM-B (-BS)   |
|---|---|---|---|--|--|--|
| Power source  |   | 3-phase 4-wire 380  | -400-415V 50/60Hz   | 3-phase 4-wire 380   | -400-415V 50/60Hz  |  |
| Cooling capacity  | *1  | kW  | 69.0  |  |  | 3.0  |
| (Nominal)   | *1  | kcal / h  |   |  | 62.  | 800  |
| ```   | *1  | BTU / h   | 235   | 400  | 249  | .100   |
|   | Power input   | kW  | 18  |  |  | .09  |
|   | Current input   | A   | 31.3-29.8-28.7  |  | 35.6-33  |  |
|   | EER   | kW / kW   | 3.  |  |  | 46   |
| Temp. range of  | Indoor  | W.B.  | 15.0~24.0°0   |  | 15.0~24.0°0  |  |
| cooling   | Outdoor   | D.B.  | -5.0~43.0°C   |  |  | (23~109°F)   |
| Heating capacity  | *2  |   | 76  |  |  | 1.5  |
| (Nominal)   | *2  |   | 65,   |  | 70,  |  |
| ()  |   | BTU/h   | 261   |  |  | .100   |
|   | Power input   | kW  | 19  |  |  | .73  |
|   | Current input   | A   | 32.4-30   |  |  | 4.8-33.5   |
|   | COP   | kW / kW   |   |  |  | 75   |
| Temp. range of  | Indoor  | D.B.  | 15.0~27.0°0   |  | 15.0~27.0°   |  |
| heating   | Outdoor   | W.B.  | -20.0~15.5°   |  | -20.0~15.5°  |  |
| Indoor unit   | Total capacity  | 11.D.   | 50~130 % of out   |  |  | door unit capacity   |
| connectable   | Model / Quantity  |   | P15~P25   |  | P15~P25  |  |
| Sound pressure le   |   |   |   |  |  |  |
| (measured in ane  |   | dB <a></a>  | 6   | 2  | 62.5   |  |
| Refrigerant piping  | , ,   | mm (in.)  | 19.05 (3/4) Brazed  |  | 19.05 (3/4) Brazed   |  |
| diameter  | Gas pipe  | mm (in.)  |   |  | 41.28 (1-5/8) Brazed   |  |
| Set Model   | Gas pipe  | [IIIIII (III.)  | 34.93 (1-3  | (6) Blazeu   | 41.26 (1-5   | (6) Blazed   |
| Model   |   |   | PUHY-RP300YJM-B (-BS)   | PUHY-RP300YJM-B (-BS)  | PUHY-RP300YJM-B (-BS)  | PUHY-RP350YJM-B (-BS)  |
| FAN   | Type x Quantity   |   | Propeller fan x 1   | Propeller fan x 1  | Propeller fan x 1  | Propeller fan x 1  |
| 1744  | Air flow rate   | m³/min  | 185   | 185  | 185  | 185  |
|   | All now rate  | L/s   | 3,083   | 3.083  | 3,083  | 3,083  |
|   |   | cfm   | 6,532   | 6,532  | 6,532  | 6,532  |
|   | Control, Driving m  |   | Inverter-control. Dir   |  |  | rect-driven by motor   |
|   | Motor output  | kW  | 0.92 x 1  | 0.92 x 1   | 0.92 x 1   |  |
|   |   |   |   | 0.32 X 1   |  |  |
| *3  |   |   |   | 0  Pa (0  mmH 0)   |  | 0.92 x 1   |
| *3<br>Comprossor  | External static p   |   | 0 Pa (0 mmH <sub>2</sub> O)   | 0 Pa (0 mmH <sub>2</sub> O)  | 0 Pa (0 mmH <sub>2</sub> O)  | 0 Pa (0 mmH₂O)   |
| *3<br>Compressor  | External static p<br>Type x Quantity  |   | 0 Pa (0 mmH <sub>2</sub> O)<br>Inverter scroll her  | metic compressor   | 0 Pa (0 mmH <sub>2</sub> O)<br>Inverter scroll her   | 0 Pa (0 mmH <sub>2</sub> O)<br>metic compressor  |
|   | External static portion<br>Type x Quantity<br>Starting method   | ress.   | 0 Pa (0 mmH <sub>2</sub> O)<br>Inverter scroll her<br>Inverter  | metic compressor<br>Inverter   | 0 Pa (0 mmH <sub>2</sub> O)<br>Inverter scroll her<br>Inverter   | 0 Pa (0 mmH <sub>2</sub> O)<br>metic compressor<br>Inverter  |
|   | External static pr<br>Type x Quantity<br>Starting method<br>Motor output  | kW  | 0 Pa (0 mmH <sub>2</sub> O)<br>Inverter scroll her<br>Inverter<br>8.2   | metic compressor<br>Inverter<br>8.2  | 0 Pa (0 mmH <sub>2</sub> O)<br>Inverter scroll her<br>Inverter<br>8.2  | 0 Pa (0 mmH <sub>2</sub> O)<br>metic compressor<br>Inverter<br>9.9   |
| Compressor  | External static portion<br>Type x Quantity<br>Starting method   | ress.   | 0 Pa (0 mmH <sub>2</sub> O)<br>Inverter scroll her<br>Inverter<br>8.2<br>0.045 (240V)   | metic compressor<br>Inverter<br>8.2<br>0.045 (240V)  | 0 Pa (0 mmH <sub>2</sub> O)<br>Inverter scroll her<br>Inverter<br>8.2<br>0.045 (240V)  | 0 Pa (0 mmH <sub>2</sub> O)<br>metic compressor<br>Inverter<br>9.9<br>0.045 (240V)   |
| Compressor<br>External finish   | External static p<br>Type x Quantity<br>Starting method<br>Motor output<br>Case heater  | kW  | 0 Pa (0 mmH <sub>2</sub> O)<br>Inverter scroll her<br>Inverter<br>8.2<br>0.045 (240V)<br>Pre-coated galvanized steel shee<br><munsell 5y<="" td=""><td>Inverter<br/>8.2<br/>0.045 (240V)<br/>ts (+powder coating for -BS type)<br/>8/1 or similar&gt;</td><td>0 Pa (0 mmH<sub>2</sub>O)<br/>Inverter scroll her<br/>Inverter<br/>8.2<br/>0.045 (240V)<br/>Pre-coated galvanized steel shee<br/><munsell 5y<="" td=""><td>0 Pa (0 mmH<sub>2</sub>O)<br/>metic compressor<br/>Inverter<br/>9.9<br/>0.045 (240V)<br/>ets (+powder coating for -BS type<br/>8/1 or similar&gt;</td></munsell></td></munsell>  | Inverter<br>8.2<br>0.045 (240V)<br>ts (+powder coating for -BS type)<br>8/1 or similar>  | 0 Pa (0 mmH <sub>2</sub> O)<br>Inverter scroll her<br>Inverter<br>8.2<br>0.045 (240V)<br>Pre-coated galvanized steel shee<br><munsell 5y<="" td=""><td>0 Pa (0 mmH<sub>2</sub>O)<br/>metic compressor<br/>Inverter<br/>9.9<br/>0.045 (240V)<br/>ets (+powder coating for -BS type<br/>8/1 or similar&gt;</td></munsell>  | 0 Pa (0 mmH <sub>2</sub> O)<br>metic compressor<br>Inverter<br>9.9<br>0.045 (240V)<br>ets (+powder coating for -BS type<br>8/1 or similar>   |
| Compressor<br>External finish   | External static p<br>Type x Quantity<br>Starting method<br>Motor output<br>Case heater  | kW  | 0 Pa (0 mmH <sub>2</sub> O)<br>Inverter scroll her<br>Inverter<br>8.2<br>0.045 (240V)<br>Pre-coated galvanized steel shee   | metic compressor<br>Inverter<br>8.2<br>0.045 (240V)<br>ts (+powder coating for -BS type)   | 0 Pa (0 mmH <sub>2</sub> O)<br>Inverter scroll her<br>Inverter<br>8.2<br>0.045 (240V)<br>Pre-coated galvanized steel shee  | 0 Pa (0 mmH <sub>2</sub> O)<br>metic compressor<br>Inverter<br>9.9<br>0.045 (240V)<br>ets (+powder coating for -BS type  |
| Compressor<br>External finish   | External static p<br>Type x Quantity<br>Starting method<br>Motor output<br>Case heater  | kW<br>kW  | 0 Pa (0 mmH <sub>2</sub> O)<br>Inverter scroll her<br>Inverter<br>8.2<br>0.045 (240V)<br>Pre-coated galvanized steel shee<br><munsell 5y<br="">1,710 (1,650 without legs)</munsell>   | metic compressor           Inverter           8.2           0.045 (240V)           ts (+powder coating for -BS type)           8/1 or similar>           1,710 (1,650 without legs)           x 920 x 760           67-3/8 (65 without legs)   | 0 Pa (0 mmH <sub>2</sub> O)<br>Inverter scroll her<br>Inverter<br>8.2<br>0.045 (240V)<br>Pre-coated galvanized steel shee<br><munsell 5y<br="">1,710 (1,650 without legs)</munsell>  | 0 Pa (0 mmH <sub>2</sub> O)<br>metic compressor<br>Inverter<br>9.9<br>0.045 (240V)<br>ets (+powder coating for -BS type<br>8/1 or similar><br>1, 710 (1,650 without legs)<br>x 920 x 760<br>67-3/8 (65 without legs)   |
| Compressor<br>External finish<br>External dimensio  | External static p<br>Type x Quantity<br>Starting method<br>Motor output<br>Case heater  | kW<br>kW<br>mm<br>in.   | 0 Pa (0 mmH <sub>2</sub> O)<br>Inverter scroll her<br>Inverter<br>8.2<br>0.045 (240V)<br>Pre-coated galvanized steel shee<br><munsell 5y<br="">1,710 (1,650 without legs)<br/>x 920 x 760<br/>67-3/8 (65 without legs)<br/>x 36-1/4 x 29-15/16</munsell>  | Inverter           8.2           0.045 (240V)           ts (+powder coating for -BS type)           8/1 or similar>           1,710 (1,650 without legs)           x 920 x 760           67-3/8 (65 without legs)           x 36-1/4 x 29-15/16  | 0 Pa (0 mmH <sub>2</sub> O)<br>Inverter scroll her<br>Inverter<br>8.2<br>0.045 (240V)<br>Pre-coated galvanized steel shee<br><munsell 5y<br="">1,710 (1,650 without legs)<br/>x 920 x 760<br/>67-3/8 (65 without legs)<br/>x 36-1/4 x 29-15/16</munsell>   | 0 Pa (0 mmH <sub>2</sub> O)<br>metic compressor<br>Inverter<br>9.9<br>0.045 (240V)<br>ts (+powder coating for -BS type<br>8/1 or similar><br>1,710 (1,650 without legs)<br>x 920 x 760<br>67-3/8 (65 without legs)<br>x 36-1/4 x 29-15/16  |
| Compressor<br>External finish<br>External dimensio<br>Protection  | External static p<br>Type x Quantity<br>Starting method<br>Motor output<br>Case heater  | kW<br>kW<br>mm<br>in.   | 0 Pa (0 mmH <sub>2</sub> O)<br>Inverter scroll her<br>Inverter<br>8.2<br>0.045 (240V)<br>Pre-coated galvanized steel shee<br><munsell 5y<br="">1,710 (1,650 without legs)<br/>x 920 x 760<br/>67-3/8 (65 without legs)<br/>x 36-1/4 x 29-15/16</munsell>  | metic compressor           Inverter           8.2           0.045 (240V)           ts (+powder coating for -BS type)           8/1 or similar>           1,710 (1,650 without legs)           x 36-1/4 x 29-15/16           switch at 4.15,3.3MPa (601,479 psi)  | 0 Pa (0 mmH <sub>2</sub> O)<br>Inverter scroll her<br>Inverter<br>8.2<br>0.045 (240V)<br>Pre-coated galvanized steel shee<br><munsell 5y<br="">1,710 (1,650 without legs)<br/>x 920 x 760<br/>67-3/8 (65 without legs)<br/>x 36-1/4 x 29-15/16<br/>High pressure sensor, High pressure</munsell>   | 0 Pa (0 mmH <sub>2</sub> O)<br>metic compressor<br>Inverter<br>9.9<br>0.045 (240V)<br>ts (+powder coating for -BS type<br>8/1 or similar><br>1,710 (1,650 without legs)<br>x 920 x 760<br>67-3/8 (65 without legs)<br>x 36-1/4 x 29-15/16  |
| Compressor<br>External finish<br>External dimensio<br>Protection  | External static pi<br>Type x Quantity<br>Starting method<br>Motor output<br>Case heater<br>on HxWxD   | kW<br>kW<br>mm<br>in.   | 0 Pa (0 mmH <sub>2</sub> O)<br>Inverter scroll her<br>Inverter<br>8.2<br>0.045 (240V)<br>Pre-coated galvanized steel shee<br><pre></pre> <pre></pre> <pre></pre> <pre>/// Charles (Charles)</pre> <pre>// Charles (Charles)</pre> // Charles (Charles) // Charles (Charle  | metic compressor           Inverter           8.2           0.045 (240V)           ts (+powder coating for -BS type)           8/1 or similar>           1,710 (1,650 without legs)           x 920 x 760           67-3/8 (65 without legs)           x 36-1/4 x 29-15/16           switch at 4.15,3.3MPa (601,479 psi)           Over-current protection   | 0 Pa (0 mmH <sub>2</sub> O)<br>Inverter scroll her<br>Inverter<br>8.2<br>0.045 (240V)<br>Pre-coated galvanized steel shee<br><ul> <li>MUNSELL 5Y</li> <li>1,710 (1,650 without legs)<br/>x 920 x 760</li> <li>67-3/8 (65 without legs)<br/>x 36-1/4 x 29-15/16</li> <li>High pressure sensor, High pressure<br/>Over-heat protection, 0</li> </ul>   | 0 Pa (0 mmH <sub>2</sub> 0)<br>metic compressor<br>Inverter<br>9.9<br>0.045 (240V)<br>ts (+powder coating for -BS type<br>/8/1 or similar><br>1,710 (1,650 without legs)<br>x 920 x 760<br>67-3/8 (65 without legs)<br>x 36-1/4 x 29-15/16<br>switch at 4.15,3.3MPa (601,479 psi   |
| Compressor<br>External finish<br>External dimensio<br>Protection  | External static pi<br>Type x Quantity<br>Starting method<br>Motor output<br>Case heater<br>n HxWxD<br>High pressure pi<br>Inverter circuit (CC  | kW<br>kW<br>mm<br>in.   | 0 Pa (0 mmH <sub>2</sub> O)<br>Inverter scroll her<br>Inverter<br>8.2<br>0.045 (240V)<br>Pre-coated galvanized steel shee<br><ul> <li>MUNSELL 5Y</li> <li>1,710 (1,650 without legs)<br/>x 920 x 760</li> <li>67-3/8 (65 without legs)<br/>x 36-1/4 x 29-15/16</li> <li>High pressure sensor, High pressure<br/>Over-heat protection, 0</li> </ul>  | metic compressor           Inverter           8.2           0.045 (240V)           ts (+powder coating for -BS type)           8/1 or similar>           1,710 (1,650 without legs)           x 920 x 760           67-3/8 (65 without legs)           x 36-1/4 x 29-15/16           switch at 4.15,3.3MPa (601,479 psi)           Over-current protection   | 0 Pa (0 mmH <sub>2</sub> O)<br>Inverter scroll her<br>Inverter<br>8.2<br>0.045 (240V)<br>Pre-coated galvanized steel shee<br><ul> <li>MUNSELL 5Y</li> <li>1,710 (1,650 without legs)<br/>x 920 x 760</li> <li>67-3/8 (65 without legs)<br/>x 36-1/4 x 29-15/16</li> <li>High pressure sensor, High pressure<br/>Over-heat protection, 0</li> </ul>   | 0 Pa (0 mmH <sub>2</sub> O)<br>metic compressor<br>Inverter<br>9.9<br>0.045 (240V)<br>ts (+powder coating for -BS type<br>(8/1 or similar><br>1,710 (1,650 without legs)<br>x 920 x 760<br>67-3/8 (65 without legs)<br>x 36-1/4 x 29-15/16<br>s without 4.15,3.3MPa (601,479 ps)<br>Dver-current protection  |
| Compressor<br>External finish<br>External dimensio<br>Protection<br>devices   | External static pi<br>Type x Quantity<br>Starting method<br>Motor output<br>Case heater<br>on HxWxD<br>High pressure pi<br>Inverter circuit (CC<br>Compressor<br>Fan motor                      | kW<br>kW<br>mm<br>in.<br>rotection<br>MP/FAN)                           | 0 Pa (0 mmH <sub>2</sub> O)<br>Inverter scroll her<br>Inverter<br>8.2<br>0.045 (240V)<br>Pre-coated galvanized steel shee<br><munsell 5y<br="">1,710 (1,650 without legs)<br/>x 920 x 760<br/>67-3/8 (65 without legs)<br/>x 36-1/4 x 29-15/16<br/>High pressure sensor, High pressure<br/>Over-heat protection, (<br/>Over-heat switch</munsell>   | metic compressor<br>Inverter<br>8.2<br>0.045 (240V)<br>ts (+powder coating for -BS type)<br>8/1 or similar><br>1,710 (1,650 without legs)<br>x 920 x 760<br>67-3/8 (65 without legs)<br>x 36-1/4 x 29-15/16<br>switch at 4.15,3.3MPa (601,479 psi)<br>Over-current protection<br>protection<br>Thermal switch  | 0 Pa (0 mmH <sub>2</sub> O)<br>Inverter scroll her<br>Inverter<br>8.2<br>0.045 (240V)<br>Pre-coated galvanized steel shee<br><munsell 5y<br="">1,710 (1,650 without legs)<br/>x 920 x 760<br/>67-3/8 (65 without legs)<br/>x 36-1/4 x 29-15/16<br/>High pressure sensor, High pressure<br/>Over-heat protection, (<br/>Over-heat switch</munsell>  | 0 Pa (0 mmH <sub>2</sub> O)<br>metic compressor<br>Inverter<br>9.9<br>0.045 (240V)<br>ts (+powder coating for -BS type<br>/8/1 or similar><br>1,710 (1,650 without legs)<br>x 920 x 760<br>67-3/8 (65 without legs)<br>x 36-1/4 x 29-15/16<br>switch at 4.15,3.3MPa (601,479 ps<br>Dver-current protection<br>protection<br>Thermal switch   |
| Compressor<br>External finish<br>External dimensio<br>Protection<br>devices<br>Refrigerant  | External static p<br>Type x Quantity<br>Starting method<br>Motor output<br>Case heater<br>on HxWxD<br>High pressure pr<br>Inverter circuit (CC<br>Compressor                                    | kW<br>kW<br>in.<br>otection<br>MP/FAN)                                  | 0 Pa (0 mmH <sub>2</sub> O)<br>Inverter scroll her<br>Inverter<br>8.2<br>0.045 (240V)<br>Pre-coated galvanized steel shee<br><pre></pre> <pre></pre> <pre></pre> <pre>/// Content of the steel shee</pre> <pre></pre> <pre>// Content of the steel shee</pre> <pre></pre> <pre>// Content of the steel sheel shee</pre>   | metic compressor           Inverter           8.2           0.045 (240V)           ts (+powder coating for -BS type)           8/1 or similar>           1,710 (1,650 without legs)           x 920 x 760           67-3/8 (65 without legs)           x 36-1/4 x 29-15/16           switch at 4.15,3.3MPa (601,479 psi)           Diver-current protection           protection           Thermal switch           R410A x 9.0kg (20lbs)  | 0 Pa (0 mmH <sub>2</sub> O)<br>Inverter scroll her<br>Inverter<br>8.2<br>0.045 (240V)<br>Pre-coated galvanized steel shee<br>< <u>MUNSELL 5Y</u><br>1,710 (1,650 without legs)<br>x 920 x 760<br>67-3/8 (65 without legs)<br>x 36-1/4 x 29-15/16<br>High pressure sensor, High pressure<br>Over-heat protection, (<br>Over-heat  | 0 Pa (0 mmH <sub>2</sub> O)<br>metic compressor<br>Inverter<br>9.9<br>0.045 (240V)<br>ts (+powder coating for -BS type<br>(8/1 or similar><br>1,710 (1,650 without legs)<br>x 920 x 760<br>67-3/8 (65 without legs)<br>x 36-1/4 x 29-15/16<br>switch at 4.15,3.3MPa (601,479 ps<br>Dver-current protection<br>protection<br>Thermal switch<br>R410A x 9.0kg (20lbs)  |
| Compressor<br>External finish<br>External dimensio<br>Protection<br>devices<br>Refrigerant<br>Net weight  | External static pi<br>Type x Quantity<br>Starting method<br>Motor output<br>Case heater<br>on HxWxD<br>High pressure pi<br>Inverter circuit (CC<br>Compressor<br>Fan motor                      | kW<br>kW<br>mm<br>in.<br>rotection<br>MP/FAN)                           | 0 Pa (0 mmH <sub>2</sub> O)<br>Inverter scroll her<br>Inverter<br>8.2<br>0.045 (240V)<br>Pre-coated galvanized steel shee<br><ul> <li><a href="https://www.sci.ex/without">www.sci.ex/without</a><br/></li> <li><a href="https://www.sci.ex/without">www.sci.ex/without</a><br/><a href="https://www.sci.ex/without">www.sci.ex/without</a><br/></li> <li><a href="https://www.sci.ex/without">www.sci.ex/without</a><br/><a href="https://www.sci.ex/without">wwww.sci.ex/without</a><br/><a href="https://www.sci.ex/without">www.sci.ex/without</a><br/><a href="https://www.sci.ex/without">wwww.sci.ex/without</a><br/><a href="https://www.sci.ex/without">www.sci.ex/without</a><br/><a href="https://www.sci.ex/without">wwww.sci.ex/without</a><br/><a href="https://www.sci.ex/without">www.sci.ex/without</a><br/><a href="https://www.sci.ex/without">www.sci.ex/without</a><br/><a href="https://www.sci.ex/without">www.sci.ex/without</a><br/><a href="https://www.sci.ex/without">wwww.sci.ex/without</a><br/><a href="https://www.sci.ex/without">wwww.sci.ex/without</a><br/><a href="https://www.sci.ex/without">wwww.sci.ex/without</a><br/><a href="https://www.sci.ex/without">wwww.sci.ex/without</a><br/><a href="https://www.sci.ex/without">www.sci.ex/without</a><br/><a href="https://www.sci.ex/without">wwww.sci.ex/without</a><br/><a href="https://www.sci.ex/without"></a>www.sci.ex/without"/&gt;www.sci.ex/without<br/><a href="https://www.sci.ex/without"></a>www.sci.ex/without"/&gt;www.sci.ex/without"/&gt;wwww.sci.ex/without"/&gt;www.sci.ex/wit</li></ul>  | metic compressor           Inverter           8.2           0.045 (240V)           ts (+powder coating for -BS type)           8/1 or similar>           1,710 (1,650 without legs)           x 20 x 760           67-3/8 (65 without legs)           x 36-1/4 x 29-15/16           switch at 4.15,3.3MPa (601,479 psi)           >ver-current protection           protection           Thermal switch           R410A x 9.0kg (20lbs)           255 (563)  | 0 Pa (0 mmH <sub>2</sub> O)<br>Inverter scroll her<br>Inverter<br>8.2<br>0.045 (240V)<br>Pre-coated galvanized steel shee<br><ul> <li>MUNSELL 5Y</li> <li>1,710 (1,650 without legs)<br/>x 920 x 760</li> <li>67-3/8 (65 without legs)<br/>x 36-1/4 x 29-15/16</li> <li>High pressure sensor, High pressure<br/>Over-heat protection, Q</li> <li>Over-heat protection, Q</li> <li>Over-heat switch<br/>Thermal switch<br/>R410A x 9.0kg (20lbs)<br/>255 (563)</li> </ul>   | 0 Pa (0 mmH₂O)<br>metic compressor<br>Inverter<br>9.9<br>0.045 (240V)<br>ts (+powder coating for -BS type<br>(8/1 or similar><br>1,710 (1,650 without legs)<br>x 920 x 760<br>67-3/8 (65 without legs)<br>x 36-1/4 x 29-15/16<br>switch at 4.15,3.3MPa (601,479 ps<br>Dver-current protection<br>protection<br>Thermal switch<br>R410A x 9.0kg (20lbs)<br>255 (563)  |
| Compressor<br>External finish<br>External dimensio<br>Protection<br>devices<br>Refrigerant<br>Net weight<br>Heat exchanger                      | External static pi<br>Type x Quantity<br>Starting method<br>Motor output<br>Case heater<br>on HxWxD<br>High pressure pi<br>Inverter circuit (CC<br>Compressor<br>Fan motor<br>Type x original c | kW<br>kW<br>in.<br>otection<br>MP/FAN)<br>harge<br>kg (lbs)             | 0 Pa (0 mmH <sub>2</sub> O)<br>Inverter scroll her<br>Inverter<br>8.2<br>0.045 (240V)<br>Pre-coated galvanized steel shee<br><ul> <li>&lt;<li>&lt;</li> <li></li> <li></li> <li></li> <li></li> <li></li> <li>&lt;</li> <li></li></li></ul> <li></li> <li< td=""><td>metic compressor           Inverter         8.2           0.045 (240V)         1000000000000000000000000000000000000</td><td>0 Pa (0 mmH<sub>2</sub>O)<br/>Inverter scroll her<br/>Inverter scroll her<br/>8.2<br/>0.045 (240V)<br/>Pre-coated galvanized steel shee<br/><ul> <li>&lt;<u>MUNSELL 5Y</u></li> <li>1,710 (1,650 without legs)<br/>x 920 x 760</li> <li>67-3/8 (65 without legs)<br/>x 36-1/4 x 29-15/16</li> <li>High pressure sensor, High pressure<br/>Over-heat protection, (<br/>Over-heat<br/>Thermal switch<br/>R410A x 9.0kg (20lbs)<br/>265 (563)</li> </ul></td><td>0 Pa (0 mmH<sub>2</sub>O)<br/>metic compressor<br/>Inverter<br/>9.9<br/>0.045 (240V)<br/>ts (+powder coating for -BS type<br/>8/1 or similar&gt;<br/>1,710 (1,650 without legs)<br/>x 920 x 760<br/>67-3/8 (65 without legs)<br/>x 36-1/4 x 29-15/16<br/>switch at 4.15,3.3MPa (601,479 ps<br/>Dver-current protection<br/>protection<br/>Thermal switch<br/>R410A x 9.0kg (20lbs)<br/>255 (563)<br/>s fin &amp; copper tube</td></li<> | metic compressor           Inverter         8.2           0.045 (240V)         1000000000000000000000000000000000000   | 0 Pa (0 mmH <sub>2</sub> O)<br>Inverter scroll her<br>Inverter scroll her<br>8.2<br>0.045 (240V)<br>Pre-coated galvanized steel shee<br><ul> <li>&lt;<u>MUNSELL 5Y</u></li> <li>1,710 (1,650 without legs)<br/>x 920 x 760</li> <li>67-3/8 (65 without legs)<br/>x 36-1/4 x 29-15/16</li> <li>High pressure sensor, High pressure<br/>Over-heat protection, (<br/>Over-heat<br/>Thermal switch<br/>R410A x 9.0kg (20lbs)<br/>265 (563)</li> </ul>  | 0 Pa (0 mmH <sub>2</sub> O)<br>metic compressor<br>Inverter<br>9.9<br>0.045 (240V)<br>ts (+powder coating for -BS type<br>8/1 or similar><br>1,710 (1,650 without legs)<br>x 920 x 760<br>67-3/8 (65 without legs)<br>x 36-1/4 x 29-15/16<br>switch at 4.15,3.3MPa (601,479 ps<br>Dver-current protection<br>protection<br>Thermal switch<br>R410A x 9.0kg (20lbs)<br>255 (563)<br>s fin & copper tube                         |
| Compressor<br>External finish<br>External dimensio<br>Protection<br>devices<br>Refrigerant<br>Net weight<br>Heat exchanger<br>Pipe between unit | External static pr<br>Type x Quantity<br>Starting method<br>Motor output<br>Case heater<br>n HxWxD<br>High pressure pr<br>Inverter circuit (CC<br>Compressor<br>Fan motor<br>Type x original c  | kW<br>kW<br>in.<br>otection<br>MP/FAN)<br>harge<br>kg (lbs)<br>mm (in.) | 0 Pa (0 mmH <sub>2</sub> O)<br>Inverter scroll her<br>Inverter<br>8.2<br>0.045 (240V)<br>Pre-coated galvanized steel shee<br><munsell 5y<br="">1,710 (1,650 without legs)<br/>x 920 x 760<br/>67-3/8 (65 without legs)<br/>x 36-1/4 x 29-15/16<br/>High pressure sensor, High pressure<br/>Over-heat protection, (<br/>Over-heat protection, (<br/>Over-heat switch<br/>R410A x 9.0kg (20lbs)<br/>255 (563)<br/>Salt-resistant cross<br/>12.7 (1/2) Brazed</munsell>  | metic compressor           Inverter           8.2           0.045 (240V)           ts (+powder coating for -BS type)           8/1 or similar>           1,710 (1,650 without legs)           x 3620 x 760           67-3/8 (65 without legs)           x 36-1/4 x 29-15/16           switch at 4.15,3.3MPa (601,479 psi)           Diver-current protection           protection           Thermal switch           R410A x 9.0kg (20lbs)           255 (563)           s fin & copper tube           12.7 (1/2) Brazed | 0 Pa (0 mmH <sub>2</sub> O)<br>Inverter scroll her<br>Inverter<br>8.2<br>0.045 (240V)<br>Pre-coated galvanized steel shee<br><munsell 5y<br="">1,710 (1,650 without legs)<br/>x 920 x 760<br/>67-3/8 (65 without legs)<br/>x 36-1/4 x 29-15/16<br/>High pressure sensor, High pressure<br/>Over-heat protection, 0<br/>Over-heat protection, 1<br/>Dever-heat steel steel steel<br/>Network Steel St</munsell> | 0 Pa (0 mmH <sub>2</sub> O)<br>metic compressor<br>Inverter<br>9.9<br>0.045 (240V)<br>tts (+powder coating for -BS type<br>(8/1 or similar><br>1,710 (1,650 without legs)<br>x 920 x 760<br>67-3/8 (65 without legs)<br>x 36-1/4 x 29-15/16<br>switch at 4.15,3.3MPa (601,479 ps)<br>Dver-current protection<br>protection<br>Thermal switch<br>R410A x 9.0kg (20lbs)<br>255 (563)<br>s fin & copper tube<br>12.7 (1/2) Brazed |
| Compressor<br>External finish<br>External dimensio<br>Protection<br>devices<br>Refrigerant<br>Net weight<br>Heat exchanger                      | External static pi<br>Type x Quantity<br>Starting method<br>Motor output<br>Case heater<br>on HxWxD<br>High pressure pi<br>Inverter circuit (CC<br>Compressor<br>Fan motor<br>Type x original c | kW<br>kW<br>in.<br>otection<br>MP/FAN)<br>harge<br>kg (lbs)             | 0 Pa (0 mmH <sub>2</sub> O)<br>Inverter scroll her<br>Inverter<br>8.2<br>0.045 (240V)<br>Pre-coated galvanized steel shee<br>-MUNSELL 5Y<br>1,710 (1,650 without legs)<br>x 920 x 760<br>67-3/8 (65 without legs)<br>x 36-1/4 x 29-15/16<br>High pressure sensor, High pressure<br>Over-heat protection, (<br>Over-heat<br>Thermal switch<br>R410A x 9.0kg (20lbs)<br>255 (563)<br>Salt-resistant cross<br>12.7 (1/2) Brazed<br>22.2 (7/8) Brazed   | metic compressor           Inverter         8.2           0.045 (240V)         1000000000000000000000000000000000000   | 0 Pa (0 mmH <sub>2</sub> O)<br>Inverter scroll her<br>Inverter<br>8.2<br>0.045 (240V)<br>Pre-coated galvanized steel shee<br><ul> <li>MUNSELL SY</li> <li>1,710 (1,650 without legs)<br/>x 920 x 760</li> <li>67-3/8 (65 without legs)<br/>x 36-1/4 x 29-15/16</li> </ul> <li>High pressure sensor, High pressure<br/>Over-heat protection, (<br/>Over-heat protection, (<br/>Over-heat switch<br/>R410A x 9.0kg (20lbs)<br/>255 (563)<br/>Salt-resistant cross<br/>12.7 (1/2) Brazed</li>   | 0 Pa (0 mmH <sub>2</sub> 0)<br>metic compressor<br>Inverter<br>9.9<br>0.045 (240V)<br>ts (+powder coating for -BS type<br>8/1 or similar><br>1,710 (1,650 without legs)<br>x 920 x 760<br>67-3/8 (65 without legs)<br>x 36-1/4 x 29-15/16<br>switch at 4.15,3.3MPa (601,479 psi<br>Dver-current protection<br>protection<br>Thermal switch<br>R410A x 9.0kg (20lbs)<br>255 (563)<br>s fin & copper tube                        |

#### Notes:

\*1,\*2 Nominal conditions

|         | Indoor                           | Outdoor                     | Pipe length       | Level difference |
|---------|----------------------------------|-----------------------------|-------------------|------------------|
| Cooling | 27°CDB/19°CWB<br>(81°FDB/66°FWB) | 35°CDB (95°FDB)             | 7.5m (24-9/16ft.) | 0m (0ft.)        |
| Heating | 20°CDB(68°FDB)                   | 7°CDB/6°CWB (45°FDB/43°FWB) | 7.5m (24-9/16ft.) | 0m (0ft.)        |

\*3. External static pressure option is available (30Pa, 60Pa / 3.1mmH<sub>2</sub>O, 6.1mmH<sub>2</sub>O). \*Nominal condition \*1,\*2 are subject to JIS B8615-1. \*Due to continuing improvement, above specifications may be subject to change without notice. \*Our company is unable to guarantee reliability of pre-existing pipes and pre-existing cables.

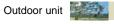
Outdoor unit

Notes:

| •1,• | 2 Nominal condition | ns                               |                             |                   |                  |
|------|---------------------|----------------------------------|-----------------------------|-------------------|------------------|
| ſ    |                     | Indoor                           | Outdoor                     | Pipe length       | Level difference |
|      | Cooling             | 27°CDB/19°CWB<br>(81°FDB/66°FWB) | 35°CDB (95°FDB)             | 7.5m (24-9/16ft.) | 0m (0ft.)        |
| [    | Heating             | 20°CDB(68°FDB)                   | 7°CDB/6°CWB (45°FDB/43°FWB) | 7.5m (24-9/16ft.) | 0m (0ft.)        |
|      |                     |                                  |                             |                   |                  |

\*3. External static pressure option is available (30Pa, 60Pa / 3.1mmH<sub>2</sub>O, 6.1mmH<sub>2</sub>O). \*Nominal condition \*1,\*2 are subject to JIS B8615-1. \*Due to continuing improvement, above specifications may be subject to change without notice. \*Our company is unable to guarantee reliability of pre-existing pipes and pre-existing cables.

| Accession |  |
|-----------|--|
| +         |  |
|           |  |
| <br>      |  |



## OUTDOOR UNIT Y Series PUHY-RP YSJM-B(-BS)



## ► Specifications

Model

| model   |  |              | 1 0111   | -111 / 00 / 00 00                | 5 ( 80)                     | 1 0111  | -111 / 301 00101-           |                             | 1 0111   | -111 000 10010-1            | 5(100)                                  |  |
|---|--|--------------|--|----------------------------------|-----------------------------|---|-----------------------------|-----------------------------|--|-----------------------------|---|--|
| Power source                                      |  |              | 3-phase 4-v  | vire 380-400-41                  | 5V 50/60Hz                  | 3-phase 4-v   | vire 380-400-4              | 15V 50/60Hz                 | 3-phase 4-wire 380-400-415V 50/60Hz                            |                             |   |  |
| Cooling capacity                                  | *1                                     | kW           |  | 80.0                             |                             |   | 85.0                        |                             |  | 90.0                        | -                                       |  |
| (Nominal)   | *1                                     | kcal / h     |  | 68,800                           |                             |   | 73,100                      |                             |  | 77,400                      |   |  |
| . ,   | *1                                     | BTU / h      |  | 273,000                          |                             |   | 290,000                     |                             |  | 307,100                     | -                                       |  |
|   | Power input                            | kW           |  | 22.22                            |                             |   | 24.14                       |                             |  | 25.49                       |   |  |
|   | Current input                          | A            |  | 37.5-35.6-34.3                   |                             |   | 40.7-38.7-37.3              | 3                           | 43.0-40.8-39.4   |                             |   |  |
|   | EER                                    | kW / kW      |  | 3.60                             |                             |   | 3.52                        | •                           | 3.53   |                             |   |  |
| Temp. range of                                    | Indoor                                 | W.B.         |  | )~24.0°C (59~7                   | 5°F)                        | 15 (  | 0~24.0°C (59~7              | 75°E)                       | 15 (   | 15.0~24.0°C (59~75°F)       |   |  |
| cooling   | Outdoor                                | D.B.         |  | ~43.0°C (23~10                   |                             |   | ~43.0°C (23~1               |                             |  | ~43.0°C (23~10              |   |  |
| Heating capacity                                  | *2                                     |              | 0.0  | 88.0                             | ,51)                        | 0.0   | 95.0                        | 0017                        | 0.0  | 100.0                       | ,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,, |  |
| (Nominal)   |  | kcal / h     |  | 75,700                           |                             |   | 81,700                      |                             |  | 86,100                      |   |  |
| (reorninal)                                       |  | BTU / h      |  | 300,300                          |                             |   | 324,100                     |                             |  | 341,200                     |   |  |
|   | Power input                            | kW           |  | 20.13                            |                             |   | 21.78                       |                             |  | 23.75                       |   |  |
|   | Current input                          | A            |  | 33.9-32.2-31.1                   |                             |   | 36.7-34.9-33.6              | 2                           |  | 40.0-38.0-36.7              | ,                                       |  |
|   | COP                                    | kW / kW      |  | 4.37                             |                             |   | 4.36                        | )                           |  | 40.0-38.0-30.7              |   |  |
| Town rongs of                                     | Indoor                                 |              |  |                                  | 405)                        | 45.0  |                             |                             | 45.0   |                             |   |  |
| Temp. range of<br>heating                         | Outdoor                                | D.B.<br>W.B. |  | )~27.0°C (59~8<br>0~15.5°C (-4~6 |                             |   | 0~27.0°C (59~8              |                             |  | 0~27.0°C (59~8              |   |  |
|   |  | W.B.         | -  |                                  | - /                         |   | 0~15.5°C (-4~6              |                             |  | .0~15.5°C (-4~6             |   |  |
| Indoor unit                                       | Total capacity                         |              |  | 6 of outdoor un                  |                             |   | 6 of outdoor un             |                             |  | % of outdoor un             |   |  |
| connectable Model / Quantity Sound pressure level |  |              | ŀ  | P15~P250 / 1~3                   | 2                           | ŀ   | P15~P250 / 1~3              | 32                          | 1  | P15~P250 / 1~3              | 2                                       |  |
| (measured in ane                                  | choic room)                            | dB <a></a>   |  | 61.5                             |                             |   | 62                          |                             |  | 62.5                        |   |  |
| Refrigerant piping                                |  | mm (in.)     |  | 9.05 (3/4) Braze                 |                             |   | 9.05 (3/4) Braz             |                             |  | 9.05 (3/4) Braz             |   |  |
| diameter  | Gas pipe                               | mm (in.)     | 41   | .28 (1-5/8) Braz                 | zed                         | 41  | .28 (1-5/8) Bra             | zed                         | 41   | I.28 (1-5/8) Braz           | zed                                     |  |
| Set Model   |  |              |  |                                  |                             |   |                             |                             |  |                             |   |  |
| Model   |  |              | PUHY-  | PUHY-                            | PUHY-                       | PUHY-   | PUHY-                       | PUHY-                       | PUHY-  | PUHY-                       | PUHY-                                   |  |
|   | 1                                      |              |  |                                  |                             |   |                             |                             |  |                             |   |  |
| FAN   | Type x Quantity                        |              | Propeller fan x 1  |                                  | Propeller fan x 1           | Propeller fan x 1   |                             | Propeller fan x 1           |  |                             | Propeller fan x 1                       |  |
|   | Air flow rate                          | m³/min       | 185  | 185                              | 185                         | 185   | 185                         | 185                         | 185  | 185                         | 185                                     |  |
|   |  | L/s          | 3,083  | 3,083                            | 3,083                       | 3,083   | 3,083                       | 3,083                       | 3,083  | 3,083                       | 3,083                                   |  |
|   |  | cfm          | 6,532  | 6,532                            | 6,532                       | 6,532   | 6,532                       | 6,532                       | 6,532  | 6,532                       | 6,532                                   |  |
|   | Control, Driving m                     |              |  | ntrol, Direct-driv               |                             |   | ntrol, Direct-driv          |                             |  | ntrol, Direct-driv          |   |  |
|   | Motor output                           | kW           | 0.92 x 1   | 0.92 x 1                         | 0.92 x 1                    | 0.92 x 1  | 0.92 x 1                    | 0.92 x 1                    | 0.92 x 1   | 0.92 x 1                    | 0.92 x 1                                |  |
| *3  | External static pr                     | ess.         | 0 Pa (0 mmH <sub>2</sub> O)  | 0 Pa (0 mmH <sub>2</sub> O)      | 0 Pa (0 mmH <sub>2</sub> O) | 0 Pa (0 mmH <sub>2</sub> O)   | 0 Pa (0 mmH <sub>2</sub> O) | 0 Pa (0 mmH <sub>2</sub> O) | 0 Pa (0 mmH <sub>2</sub> O)                                    | 0 Pa (0 mmH <sub>2</sub> O) | 0 Pa (0 mmH <sub>2</sub> O)             |  |
| Compressor  | Type x Quantity                        |              | Inverter s   | croll hermetic c                 | ompressor                   | Inverter se   | croll hermetic c            | compressor                  | Inverter s   | croll hermetic c            | ompressor                               |  |
|   | Starting method                        |              | Inverter   | Inverter                         | Inverter                    | Inverter  | Inverter                    | Inverter                    | Inverter   | Inverter                    | Inverter                                |  |
|   | Motor output                           | kW           | 4.8  | 6.8                              | 6.8                         | 6.8   | 6.8                         | 6.8                         | 6.8  | 6.8                         | 8.2                                     |  |
|   | Case heater                            | kW           | 0.035 (240V)   | 0.045 (240V)                     | 0.045 (240V)                | 0.045 (240V)  | 0.045 (240V)                | 0.045 (240V)                | 0.045 (240V)   | 0.045 (240V)                | 0.045 (240V)                            |  |
| External finish                                   |  |              | Pre-coate  | d galvanized st                  | eel sheets                  | Pre-coate   | d galvanized s              | teel sheets                 | Pre-coate  | ed galvanized st            | eel sheets                              |  |
|   |  |              | (+powd   | er coating for -E                | BS type)                    | (+powd  | er coating for -            | BS type)                    | (+powd   | ler coating for -l          | BS type)                                |  |
|   |  |              | <muns< td=""><td>SELL 5Y 8/1 or</td><td>similar&gt;</td><td><muns< td=""><td>SELL 5Y 8/1 or</td><td>similar&gt;</td><td><mun< td=""><td>SELL 5Y 8/1 or</td><td>similar&gt;</td></mun<></td></muns<></td></muns<> | SELL 5Y 8/1 or                   | similar>                    | <muns< td=""><td>SELL 5Y 8/1 or</td><td>similar&gt;</td><td><mun< td=""><td>SELL 5Y 8/1 or</td><td>similar&gt;</td></mun<></td></muns<> | SELL 5Y 8/1 or              | similar>                    | <mun< td=""><td>SELL 5Y 8/1 or</td><td>similar&gt;</td></mun<> | SELL 5Y 8/1 or              | similar>                                |  |
| External dimensio                                 | n HxWxD                                |              | 1,710 (1,650 without   | 1,710 (1,650 without             | 1,710 (1,650 without        | 1,710 (1,650 without  | 1,710 (1,650 without        | 1,710 (1,650 without        | 1,710 (1,650 without   | 1,710 (1,650 without        | 1,710 (1,650 without                    |  |
|   |  | mm           | legs) x 920 x 760  | legs) x 920 x 760                | legs) x 920 x 760           | legs) x 920 x 760   | legs) x 920 x 760           | legs) x 920 x 760           | legs) x 920 x 760  | legs) x 920 x 760           | legs) x 920 x 760                       |  |
|   |  |              | 67-3/8 (65 without legs)   | 67-3/8 (65 without legs)         | 67-3/8 (65 without legs)    | 67-3/8 (65 without legs)  | 67-3/8 (65 without legs)    | 67-3/8 (65 without legs)    | 67-3/8 (65 without legs)                                       | ) 67-3/8 (65 without legs)  | 67-3/8 (65 without legs)                |  |
|   |  | in.          | x 36-1/4 x 29-15/16  | x 36-1/4 x 29-15/16              | x 36-1/4 x 29-15/16         | x 36-1/4 x 29-15/16   | x 36-1/4 x 29-15/16         | x 36-1/4 x 29-15/16         | x 36-1/4 x 29-15/16  | x 36-1/4 x 29-15/16         | x 36-1/4 x 29-15/16                     |  |
| Protection  | High pressure pr                       | otection     | High pressure  | sensor, High p                   | ressure switch              | High pressure   | sensor, High p              | pressure switch             | High pressure  | e sensor, High p            | ressure switch                          |  |
| devices   |  |              |  | .3.3MPa (601,4                   |                             |   | .3.3MPa (601,               |                             |  | 5,3.3MPa (601,4             |   |  |
|   | Inverter circuit (CC                   | MP./ FAN)    | Over-heat prot   | tection, Over-cui                | rrent protection            | Over-heat prot  | tection, Over-cu            | irrent protection           | Over-heat pro  | tection, Over-cu            | rrent protection                        |  |
|   | Compressor                             |              | 0\   | er-heat protect                  | ion                         | 0\  | /er-heat protec             | tion                        | 0  | ver-heat protect            | tion                                    |  |
|   | Fan motor                              |              | Thermal switch   | Thermal switch                   | Thermal switch              | Thermal switch  | Thermal switch              | Thermal switch              | Thermal switch   | Thermal switch              | Thermal switch                          |  |
| Refrigerant                                       | Type x original cl                     | harge        |  |                                  |                             |   |                             |                             |  | ) R410A x 9.0kg (20lbs)     |   |  |
| Net weight  | , ,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,, | kg (lbs)     | 230 (508)  | 255 (563)                        | 255 (563)                   | 255 (563)   | 255 (563)                   | 255 (563)                   | 255 (563)  | 255 (563)                   | 255 (563)                               |  |
| Heat exchanger                                    |  |              |  | ant cross fin & c                |                             |   | ant cross fin &             |                             |  | ant cross fin & c           |   |  |
| Pipe between unit                                 | l iquid pipe                           | mm (in )     |  |                                  |                             |   |                             |                             |  | 1 9.52 (3/8) Brazed         |   |  |
| and distributor                                   | Gas pipe                               |              |  |                                  |                             |   |                             |                             |  | 1 22.2 (7/8) Brazed         |   |  |
| Optional parts                                    | Jour hipe                              | (01.)        |  | inning kit: CMY                  |                             |   | inning kit: CM              |                             |  | vinning kit: CMY            |   |  |
|   |  |              |  | CMY-Y104/108                     |                             |   | CMY-Y104/10                 |                             |  | : CMY-Y104/108              |   |  |
|   |  |              | i icauel.  | 010/11-1104/100                  | 0.1010-0                    | i icauel.   | 01/11-1104/10               | 0/1010-0                    |  | 01011-1104/100              | JI 1010-0                               |  |

PUHY-RP700YSJM-B (-BS) PUHY-RP750YSJM-B (-BS) PUHY-RP800YSJM-B (-BS)

## OUTDOOR UNIT Y Series PUHY-RP YSJM-B(-BS)

## ► Specifications

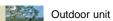
| Model              |                      |            | PL  | HY-RP850YSJM-B (-                               | BS)   |   | JHY-RP900YSJM-B (-                              |  |  |  |
|--------------------|----------------------|------------|---|---|---|---|---|--|--|--|
| Power source       |                      |            | 3-phase   | 4-wire 380-400-415V                             | 50/60Hz   | 3-phase   | 4-wire 380-400-415V                             | 50/60Hz  |  |  |
| Cooling capacity   | *1                   | kW         |   | 96.0  |   |   | 101.0   |  |  |  |
| (Nominal)          | *1                   | kcal / h   |   | 82,600  |   |   | 86,900  |  |  |  |
|                    | *1                   | BTU / h    |   | 327,600   |   |   | 344,600   |  |  |  |
|                    | Power input          | kW         |   | 27.11   |   | 28.29   |   |  |  |  |
|                    | Current input        | A          |   | 45.7-43.4-41.9                                  |   | 47.7-45.3-43.7                                  |   |  |  |  |
|                    | EER                  | kW / kW    |   | 3.54  |   |   | 3.57  |  |  |  |
| Temp. range of     | Indoor               | W.B.       |   | 15.0~24.0°C (59~75°F                            | )   |   | 15.0~24.0°C (59~75°F                            | -)   |  |  |
| cooling            | Outdoor              | D.B.       |   | 5.0~43.0°C (23~109°F                            |   |   | 5.0~43.0°C (23~109°F                            |  |  |  |
| Heating capacity   | *2                   | kW         |   | 108.0   | /   |   | 113.0   | /  |  |  |
| (Nominal)          | *2                   |            |   | 92,900  |   |   | 97.200  |  |  |  |
| · · ·              | *2                   | BTU / h    |   | 368,500   |   |   | 385,600   |  |  |  |
|                    | Power input          | kW         |   | 26.47   |   |   | 28.39   |  |  |  |
|                    | Current input        | A          |   | 44.6-42.4-40.9                                  |   |   | 47.9-45.5-43.8                                  |  |  |  |
|                    | COP                  | kW / kW    |   | 4.08  |   |   | 3.98  |  |  |  |
| Temp. range of     | Indoor               | D.B.       |   | 15.0~27.0°C (59~81°F                            | )   |   | 15.0~27.0°C (59~81°F                            | 5)   |  |  |
| heating            | Outdoor              | W.B.       |   | -20.0~15.5°C (-4~60°F                           |   |   | -20.0~15.5°C (-4~60°F                           |  |  |  |
| Indoor unit        | Total capacity       | 11.D.      |   | 30 % of outdoor unit ca                         |   |   | 30 % of outdoor unit ca                         |  |  |  |
| connectable        | Model / Quantity     |            | 50 1  | P15~P250 / 1~32                                 | ipacity   | 50 1  | P15~P250 / 1~32                                 | apacity  |  |  |
| Sound pressure le  |                      |            |   |   |   |   |   |  |  |  |
| (measured in aned  |                      | dB <a></a> |   | 63.5  |   |   | 64  |  |  |  |
| Refrigerant piping |                      | mm (in.)   |   | 19.05 (3/4) Brazed                              |   |   | 19.05 (3/4) Brazed                              |  |  |  |
| diameter           | Gas pipe             | mm (in.)   |   | 41.28 (1-5/8) Brazed                            |   |   | 41.28 (1-5/8) Brazed                            |  |  |  |
| Set Model          | Cas pipe             | [          |   | 41.20 (1-5/0) Diazed                            |   |   | 41.20 (1-5/0) Diazed                            |  |  |  |
| Model              |                      |            | PUHY-RP250V IM-R(-RS)                           | PUHY-RP300V IM-B(-BS)                           | PUHY-RP300YJM-B(-BS)                            | PUHY-RP300V IM-B(-BS)                           | PUHY-RP300V IM-R(-RS)                           | PUHY-RP300V IM-R/-RS                           |  |  |
| FAN                | Type x Quantity      |            | Propeller fan x 1                               | Propeller fan x 1                              |  |  |
|                    | Air flow rate        | m³/min     | 185   | 185   | 185   | 185   | 185   | 185  |  |  |
|                    | All now rate         | L/s        | 3.083   | 3.083   | 3.083   | 3.083   | 3.083   | 3.083  |  |  |
|                    |                      | cfm        | 6,532   | 6,532   | 6,532   | 6,532   | 6,532   | 6,532  |  |  |
|                    | Control, Driving m   |            |   | -control, Direct-driven I                       |   |   | -control, Direct-driven                         |  |  |  |
|                    | Motor output         | kW         | 0.92 x 1  | 0.92 x 1                                       |  |  |
| *3                 | External static pr   |            | 0 Pa (0 mmH <sub>2</sub> O)                     | 0 Pa (0 mmH <sub>2</sub> O)                    |  |  |
| Compressor         | Type x Quantity      | 633.       |   |   |   |   |   |  |  |  |
| Compressor         | Starting method      |            | Inverter scroll hermetic compressor             |   |   | Inverter scroll hermetic compressor             |   |  |  |  |
|                    | Motor output         | kW         | 6.8   | 8.2   | Inverter<br>8.2                                 | 8.2   | 8.2   | 8.2  |  |  |
|                    | Case heater          | kW         | 0.045 (240V)                                    | 0.045 (240V)                                   |  |  |
| External finish    | Case nedlei          | KVV        |   |   |   |   |   |  |  |  |
|                    |                      |            | <m></m>   | d steel sheets (+powde<br>UNSELL 5Y 8/1 or sim  | ilar>   | ~M  | d steel sheets (+powde<br>UNSELL 5Y 8/1 or sim  | ilar>  |  |  |
| External dimensio  | n HxWxD              | mm         |   | 1,710 (1,650 without                            |   |   | 1,710 (1,650 without                            |  |  |  |
|                    |                      |            | legs) x 920 x 760                               | legs) x 920 x 760                              |  |  |
|                    |                      | in.        | 67-3/8 (65 without legs)<br>x 36-1/4 x 29-15/16 | 67-3/8 (65 without legs<br>x 36-1/4 x 29-15/16 |  |  |
| Protection         | High pressure pr     | otection   | High pressure sensor, H                         | igh pressure switch at 4.                       | 15,3.3MPa (601,479 psi)                         | High pressure sensor, H                         | ligh pressure switch at 4.                      | 15,3.3MPa (601,479 psi                         |  |  |
| devices            | Inverter circuit (CO | MP./ FAN)  | Over-heat                                       | protection, Over-currer                         | nt protection                                   | Over-heat                                       | protection, Over-currer                         | nt protection                                  |  |  |
|                    | Compressor           |            |   | Over-heat protection                            |   |   | Over-heat protection                            |  |  |  |
|                    | Fan motor            |            | Thermal switch                                  | Thermal switch                                 |  |  |
| Refrigerant        | Type x original cl   | narge      | R410A x 9.0kg (20lbs)                           | R410A x 9.0kg (20lbs                           |  |  |
| Net weight         |                      | kg (lbs)   | 255 (563)                                       | 255 (563)                                       | 255 (563)                                       | 255 (563)                                       | 255 (563)                                       | 255 (563)                                      |  |  |
| Heat exchanger     |                      |            | Salt-re   | sistant cross fin & copp                        | per tube  | Salt-re   | sistant cross fin & cop                         | per tube                                       |  |  |
| Pipe between unit  | Liquid pipe          | mm (in.)   | 9.52 (3/8) Brazed                               | 12.7 (1/2) Brazed                               | 12.7 (1/2) Brazed                               | 12.7 (1/2) Brazed                               |   | 12.7 (1/2) Brazed                              |  |  |
| and distributor    | Gas pipe             | mm (in.)   |   | 22.2 (7/8) Brazed                               | 22.2 (7/8) Brazed                               | 22.2 (7/8) Brazed                               |   |  |  |  |
| Optional parts     |                      |            |   | Twinning kit: CMY-RP                            |   |   | Twinning kit: CMY-RF                            |  |  |  |
|                    |                      |            |   | der: CMY-Y104/108/10                            |   |   | der: CMY-Y104/108/10                            |  |  |  |

#### Notes:

\*1,\*2 Nominal conditions

|         | Indoor                           | Outdoor                     | Pipe length       | Level difference |
|---------|----------------------------------|-----------------------------|-------------------|------------------|
| Cooling | 27°CDB/19°CWB<br>(81°FDB/66°FWB) | 35°CDB (95°FDB)             | 7.5m (24-9/16ft.) | 0m (0ft.)        |
| Heating | 20°CDB(68°FDB)                   | 7°CDB/6°CWB (45°FDB/43°FWB) | 7.5m (24-9/16ft.) | 0m (0ft.)        |

\*3. External static pressure option is available (30Pa, 60Pa / 3.1mmH<sub>2</sub>O, 6.1mmH<sub>2</sub>O). \*Nominal condition \*1,\*2 are subject to JIS B8615-1. \*Due to continuing improvement, above specifications may be subject to change without notice. \*Our company is unable to guarantee reliability of pre-existing pipes and pre-existing cables.



Notes:

| *2 Nominal conditions |                                  |                             |                   |                  |  |  |  |  |  |  |  |  |
|-----------------------|----------------------------------|-----------------------------|-------------------|------------------|--|--|--|--|--|--|--|--|
|                       | Indoor                           | Outdoor                     | Pipe length       | Level difference |  |  |  |  |  |  |  |  |
| Cooling               | 27°CDB/19°CWB<br>(81°FDB/66°FWB) | 35°CDB (95°FDB)             | 7.5m (24-9/16ft.) | 0m (0ft.)        |  |  |  |  |  |  |  |  |
| Heating               | 20°CDB(68°FDB)                   | 7°CDB/6°CWB (45°FDB/43°FWB) | 7.5m (24-9/16ft.) | 0m (0ft.)        |  |  |  |  |  |  |  |  |

\*3. External static pressure option is available (30Pa, 60Pa / 3.1mmH<sub>2</sub>O, 6.1mmH<sub>2</sub>O). \*Nominal condition \*1,\*2 are subject to JIS B8615-1. \*Due to continuing improvement, above specifications may be subject to change without notice. \*Our company is unable to guarantee reliability of pre-existing pipes and pre-existing cables.

| <br>- |   |  |
|-------|---|--|
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Outdoor unit



## OUTDOOR UNIT R2 Series PURY-RP YJM-B(-BS)



## Specifications

| Model              |                       |            | PURY-RP200YJM-B (-BS)   | PURY-RP250YJM-B (-BS)   | PURY-RP300YJM-B (-BS)   |
|--------------------|-----------------------|------------|---|---|---|
| Power source       |                       |            | 3-phase 4-wire 380-400-415V 50/60Hz   | 3-phase 4-wire 380-400-415V 50/60Hz   | 3-phase 4-wire 380-400-415V 50/60Hz   |
| Cooling capacity   | *1                    | kW         | 22.4  | 28.0  | 33.5  |
| (Nominal)          | *1                    | kcal / h   | 19,300  | 24,100  | 28,800  |
| ` `                | *1                    | BTU / h    | 76,400  | 95,500  | 114,300   |
|                    | Power input           | kW         | 4.95  | 6.82  | 8.35  |
|                    | Current input         | Α          | 8.3-7.9-7.6   | 11.5-10.9-10.5  | 14.0-13.3-12.9  |
|                    | EER                   | kW / kW    | 4.52  | 4.10  | 4.01  |
| Temp. range of     | Indoor                | W.B.       | 15.0~24.0°C (59~75°F)   | 15.0~24.0°C (59~75°F)   | 15.0~24.0°C (59~75°F)   |
| cooling            | Outdoor               | D.B.       | -5.0~43.0°C (23~109°F)  | -5.0~43.0°C (23~109°F)  | -5.0~43.0°C (23~109°F)  |
| Heating capacity   | *2                    | kW         | 25.0  | 31.5  | 37.5  |
| (Nominal)          | *2                    | kcal / h   | 21,500  | 27,100  | 32,300  |
| (                  | *2                    | BTU / h    | 85,300  | 107.500   | 128.000   |
|                    | Power input           | kW         | 5.50  | 7.22  | 8.70  |
|                    | Current input         | A          | 9.2-8.8-8.5   | 12.1-11.5-11.1  | 14.6-13.9-13.4  |
|                    |                       | kW / kW    | 4.54  | 4.36  | 4.31  |
| Temp. range of     | Indoor                | D.B.       | 15.0~27.0°C (59~81°F)   | 15.0~27.0°C (59~81°F)   | 15.0~27.0°C (59~81°F)   |
| heating            | Outdoor               | W.B.       | -20.0~15.5°C (-4~60°F)  | -20.0~15.5°C (-4~60°F)  | -20.0~15.5°C (-4~60°F)  |
| Indoor unit        | Total capacity        |            | 50~150 % of outdoor unit capacity   | 50~150 % of outdoor unit capacity   | 50~150 % of outdoor unit capacity   |
|                    | Model / Quantity      |            | P15~P250 / 1~20   | P15~P250 / 1~25   | P15~P250 / 1~30   |
| Sound pressure le  |                       |            |   |   |   |
| (measured in anec  |                       | dB <a></a> | 56  | 57  | 59  |
| Refrigerant piping | High pressure         | mm (in.)   | 19.05 (3/4) Brazed  | 19.05 (3/4) Brazed  | 19.05 (3/4) Brazed  |
| diameter           | Low pressure          | mm (in.)   | 28.58 (1-1/8) Brazed  | 28.58 (1-1/8) Brazed  | 28.58 (1-1/8) Brazed  |
| FAN                | Type x Quantity       |            | Propeller fan x 1   | Propeller fan x 1   | Propeller fan x 1   |
|                    | Air flow rate         | m³/min     | 225   | 225   | 225   |
|                    |                       | L/s        | 3,750   | 3,750   | 3,750   |
|                    |                       | cfm        | 7,945   | 7,945   | 7,945   |
|                    | Control, Driving me   | echanism   | Inverter-control, Direct-driven by motor  | Inverter-control, Direct-driven by motor  | Inverter-control, Direct-driven by motor  |
|                    | Motor output          | kW         | 0.92 x 1  | 0.92 x 1  | 0.92 x 1  |
| *3                 | External static pre   | ess.       | 0 Pa (0 mmH <sub>2</sub> O)   | 0 Pa (0 mmH <sub>2</sub> O)   | 0 Pa (0 mmH <sub>2</sub> O)   |
| Compressor         | Type x Quantity       |            | Inverter scroll hermetic compressor   | Inverter scroll hermetic compressor   | Inverter scroll hermetic compressor   |
|                    | Starting method       |            | Inverter  | Inverter  | Inverter  |
|                    | Motor output          | kW         | 5.4   | 6.8   | 7.8   |
|                    | Case heater           | kW         | 0.035 (240V)  | 0.045 (240V)  | 0.045 (240V)  |
| External finish    |                       |            | Pre-coated galvanized steel sheets<br>(+powder coating for -BS type)<br><munsell 1="" 5y="" 8=""></munsell> | Pre-coated galvanized steel sheets<br>(+powder coating for -BS type)<br><munsell 1="" 5y="" 8=""></munsell> | Pre-coated galvanized steel sheets<br>(+powder coating for -BS type)<br><munsell 1="" 5y="" 8=""></munsell> |
| External dimensior | n HxWxD               | mm         | 1,710(1,650 without legs) x 1,220 x 760   | 1,710(1,650 without legs) x 1,220 x 760   | 1,710(1,650 without legs) x 1,220 x 760   |
|                    |                       | in.        | 67-3/8 (65 without legs) x 48-1/16 x 29-15/16   | 67-3/8 (65 without legs) x 48-1/16 x 29-15/16   | 67-3/8 (65 without legs) x 48-1/16 x 29-15/16   |
| Protection         | High pressure pro     | otection   |   | High pressure sensor, High pressure switch  |   |
| devices            | •••••                 |            | at 4.15, 3.6MPa (601,522 psi)   | at 4.15, 3.6MPa (601,522 psi)   | at 4.15, 3.6MPa (601,522 psi)   |
|                    | Inverter circuit (COI | MP./ FAN)  | Over-heat protection, Over-current protection   | Over-heat protection, Over-current protection   | Over-heat protection, Over-current protection   |
|                    | Compressor            |            |   | Discharge thermo protection, Over-current protection  |   |
|                    | Fan motor             |            | Thermal switch  | Thermal switch  | Thermal switch  |
| Refrigerant        | Type x original ch    |            | R410A x 11.8kg (27lbs)  | R410A x 11.8kg (27lbs)  | R410A x 11.8kg (27lbs)  |
| Net weight         |                       | kg (lbs)   | 275 (607)   | 290 (640)   | 290 (640)   |
| Heat exchanger     |                       |            | Salt-resistant cross fin & copper tube  | Salt-resistant cross fin & copper tube  | Salt-resistant cross fin & copper tube  |
| Optional parts     |                       |            | BC controller: CMB-P104,105,106,108,1010,1013,1016V-G<br>Main BC controller: CMB-P108,1010,1013,1016V-GA    | BC controller: CMB-P104,105,106,108,1010,1013,1016V-G<br>Main BC controller: CMB-P108,1010,1013,1016V-GA    | BC controller: CMB-P104,105,106,108,1010,1013,1016V-G<br>Main BC controller: CMB-P108,1010,1013,1016V-GA    |
|                    |                       |            | Sub BC controller: CMB-P104,108V-GB   | Sub BC controller: CMB-P104,108V-GB   | Sub BC controller: CMB-P104,108V-GB   |

#### Notes:

\*1,\*2 Nominal conditions

|         | Indoor                           | Outdoor                     | Pipe length       | Level difference |
|---------|----------------------------------|-----------------------------|-------------------|------------------|
| Cooling | 27°CDB/19°CWB<br>(81°FDB/66°FWB) | 35°CDB (95°FDB)             | 7.5m (24-9/16ft.) | 0m (0ft.)        |
| Heating | 20°CDB(68°FDB)                   | 7°CDB/6°CWB (45°FDB/43°FWB) | 7.5m (24-9/16ft.) | 0m (0ft.)        |

\*3. External static pressure option is available (30Pa, 60Pa / 3.1mmH<sub>2</sub>O, 6.1mmH<sub>2</sub>O). \*Nominal condition \*1.\*2 are subject to JIS B8615-1. \*Due to continuing improvement, above specifications may be subject to change without notice. \*Our company is unable to guarantee reliability of pre-existing pipes and pre-existing cables.





## I ndoor unit

- Ceiling cassette type 4-way airflow
- Ceiling cassette type 2-way airflow
- Ceiling cassette type 1-way airflow
- Ceiling concealed type
- Fresh Air Intake type
- Ceiling suspended type
- Wall mounted type
- Floor standing exposed
- Floor mounted concealed type
- Clossnay
- OA Processing Units

## Wide Selection of Indoor Units

|                   |                  |                                     |       |     |   |                     |                      |                       |           |     |     | State of the | 10 10            |                         |                        |   |                  |
|-------------------|------------------|-------------------------------------|-------|-----|---|---------------------|----------------------|-----------------------|-----------|-----|-----|--------------|------------------|-------------------------|------------------------|---|------------------|
| Тур               | e                | Model name                          | Model | P15 | P20                                     | P25                 | P32                  | P40                   | P50       | P63 | P71 | P80          | P100             | P125                    | P140                   | P200  | Р                |
|                   |                  | PLFY-P VBM-E                        |       |     | -<br>                                   |                     |                      | 1                     |           |     |     |              | 1                | -<br> <br>              |                        |   |                  |
|                   | 4-way air flow   | Page95 - Page96                     |       |     |   | <br> <br>           |                      | 1                     |           |     | 1   |              |                  |                         | 1<br>1<br>1            |   | <br> <br>        |
|                   | 4-way all llow   | PLFY-P VCM-E2                       |       |     |   | 1                   | 1                    |                       |           |     |     |              |                  |                         | I<br>I<br>I            | 1   |                  |
|                   | 1<br>1<br>1      | Page95 - Page96                     |       |     |   | 1                   |                      |                       |           |     |     |              |                  |                         |                        |   |                  |
| Ceiling Cassette  | <br> <br> <br>   |                                     |       |     | · • • • • • • • • • • • • • • • • • • • | . <br> <br> <br>    | <br>L                | <br>I<br>I            |           |     |     |              |                  |                         | L<br> <br> <br>        | . L   | -!<br> <br> <br> |
|                   | 2-way air flow   | PLFY-P VLMD-E<br>Page97 - Page98    |       |     |   | 1                   | i                    | i                     |           |     |     |              |                  | 1                       | 1                      | 1   |                  |
|                   | <br>!<br>!       |                                     |       |     | · <u>-</u>                              | <br> <br>           |                      | I<br>I<br>I           |           |     |     |              | <br> <br> <br>   | <br> <br> <br>          | <u> </u><br> <br> <br> | · <mark></mark>                                 | <br>             |
|                   | 1-way air flow   | PMFY-P VBM-E                        |       |     |   |                     |                      |                       |           |     |     |              |                  | 1<br> <br>              |                        |   |                  |
|                   |                  | Page99 - Page100                    |       |     | 1<br>1<br>1                             | <br> <br>           | 1<br>1<br>1          | 1<br>1<br>1           |           |     |     |              | 1<br>1<br>1      | <br> <br>               | <br> <br>              | 1<br>1<br>1                                     | 1                |
|                   |                  | PEFY-P VMR-E-L/R                    |       |     |   |                     |                      |                       |           |     |     |              |                  |                         |                        |   |                  |
|                   |                  | Page101 - Page102                   |       |     |   | <br> <br> <br> <br> | <br> <br> -<br>      | ,<br>,<br>,<br>,<br>, |           |     |     |              |                  | ,<br>,<br>,             |                        | <br>  |                  |
|                   |                  | PEFY-P VMS1(L)-E                    |       |     | 1                                       | 1                   | 1                    | 1                     |           |     |     |              | 1<br>1<br>1      | 1<br>1<br>1             |                        | 1   |                  |
|                   |                  | Page103 - Page104                   |       |     | <br> <br>                               | <br> <br>           | <br> <br> <br>-      | <br> <br>             | <br> <br> |     |     |              | <br> <br>        | <br> <br>               | <br> <br>              | <br> <br>                                       |                  |
|                   |                  | PEFY-P VMA(L)-E                     |       |     |   | i                   | 1                    | 1                     | 1         |     |     |              | 1                | I                       | 1                      |   |                  |
| Ceiling Concealed | ł                |                                     |       |     |   | <br> <br> <br>      |                      | <br> <br>             |           |     |     |              |                  | ·                       |                        | i<br>   |                  |
| 5                 |                  | PEFY-P VMA2-E<br>(Cooling only)     |       |     |   |                     |                      | 1<br>1<br>1           |           |     |     |              |                  |                         |                        |   |                  |
|                   |                  | Page105 - Page106                   |       |     |   | <br> <br> <br>      | <br>,<br>,<br>,<br>, | ,<br>,<br>,<br>,      |           |     |     |              |                  | 1<br>1<br>1<br><u>1</u> |                        | ,<br>,<br>,<br>,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,, | ¦<br>            |
|                   |                  | PEFY-P VMH(S)-E                     |       |     |   | 1<br>1<br>1         | 1<br>1<br>1          |                       |           |     |     |              | 1                |                         |                        |   |                  |
|                   |                  | Page107 - Page108                   |       |     |   | <br> <br>           | 1                    |                       |           |     |     |              |                  |                         |                        |   | i                |
|                   |                  | PEFY-P VMH-E-F                      |       |     |   |                     |                      |                       |           |     |     |              |                  | 1                       |                        |   |                  |
|                   | Fresh Air Intake | Page109 - Page110                   |       |     |   | 1                   |                      |                       |           |     |     |              | 1                | 1<br>1<br>1             |                        | 1   | 1                |
|                   | 1                |                                     |       |     |   | -<br>-<br>          |                      |                       |           |     |     |              |                  |                         |                        |   |                  |
| Ceiling Suspende  | d                | PCFY-P VKM-E<br>Page111 - Page112   |       |     |   |                     |                      |                       |           |     |     |              |                  | 1                       |                        |   |                  |
|                   |                  |                                     |       |     | <br> <br>                               | <br> <br>           | <br> <br>            | 1<br>1<br>1           |           |     |     |              | <br>             | 1<br>                   |                        | <br> <br> <br>                                  |                  |
|                   |                  | PKFY-P VBM-E                        |       |     | 1                                       | 1                   | 1<br>1<br>1          |                       |           |     |     |              |                  | 1<br>1<br>1             | 1<br>1<br>1            |   |                  |
|                   |                  | Page113 - Page114                   |       |     | <br>                                    | <br>                | <br> <br>-!          | <br>                  | <br>      |     |     |              | <br>             | <br>                    | <br>                   | <br>-   |                  |
| Wall Mounted      |                  | PKFY-P VHM-E                        |       |     |   | 1                   |                      |                       |           |     |     |              | 1<br>1<br>1      | <br> <br>               |                        |   |                  |
|                   |                  | Page113 - Page114                   |       |     | ;<br>J                                  |                     | <br>                 | ;<br>                 | L         |     |     |              |                  | <br>                    | i<br>L                 |   |                  |
|                   |                  | PKFY-P VKM-E                        |       |     |   | 1                   |                      |                       |           |     |     |              |                  |                         |                        |   |                  |
|                   |                  | Page113 - Page114                   |       |     | <br>                                    | <br> <br> <br>      | <br> <br> <br>       | 1<br>1<br>1           |           |     |     |              | 1<br>1<br>1<br>1 | 1<br>1<br>1<br>1        | <br> <br> <br>         | <br> <br> <br>                                  |                  |
|                   |                  | PFFY-P VKM-E2                       |       |     |   |                     |                      |                       |           |     |     |              | 1<br>            | 1<br>                   | 1<br>1<br>1            | <br> <br>                                       |                  |
|                   |                  | Page115 - Page116                   |       |     | 1<br>1<br>1                             |                     |                      |                       |           |     |     |              |                  | <br> <br> <br> <br>     |                        | 1<br>1<br>1<br>1                                | ¦<br>            |
| Floor Standing/   |                  | PFFY-P VLEM-E                       |       |     |   |                     |                      |                       |           |     |     |              | 1                | 1<br>1<br>1             |                        | 1   |                  |
| Floor Mounted Co  | oncealed         | Page117 - Page118                   |       |     |   |                     |                      |                       |           |     |     |              |                  |                         |                        |   |                  |
|                   |                  | PFFY-P VLRM-E                       |       |     |   | 1                   | 1                    | 1                     | 1         |     |     |              |                  |                         |                        |   |                  |
|                   |                  | PFFY-P VLRMM-E<br>Page119 - Page120 |       |     |   |                     |                      |                       |           |     |     |              | 1                | 1<br>1                  |                        | 1   |                  |

## **INDOOR UNIT** Ceiling cassette type 4-way airflow PLFY-P VBM-E Free Sensor PLFY-P VCM-E2

Compact body to match with 2 feets (600mm) x 2 feets (600mm) ceiling

PI FY-P VRM

design (VCM)

570mm

PLFY-P VCM

The new 4-way cassette VBM offers 72 different airflow patterns, making it ideal for applications with ceilings up to 4.2 m (13-13/16ft) in height.



#### Automatic Air Speed Adjustment

#### Auto-fan-speed mode enables speedy and comfortable heating during heating startup.

The Auto-fan-speed mode is added to the usual four steps "Low, Mid1, Mid2, High." The Auto-fan-speed mode enables speedy and comfortable air conditioning because the air flow speeds up when starting, and air flow slows down when the air conditioning becomes stable. (PLFY-P VBM-E ONLY)



\* When using a wireless remote controller, initial settings are required.

#### **Draft-less Air Distribution**

The horizontal blow mode\* newly employed supplies airflow horizontally not bringing cooled/warmed air directly to occupants thus preventing discomfort sensation due to excessive cooling or direct exposing of occupants to the air blow. (PLFY-P VBM-E ONLY)



\*Default \*The ceiling may be smudged at a spot where the supplied airflow is seriously disturbed

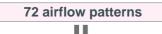
Wide Air Flow (PLFY-P VBM-E ONLY)

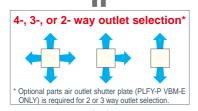
Cooling softly with Wide Air Flow Discharge air reaches wider area and the fan speed is decreased by 20% thanks to the new

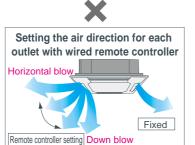


#### 72 patterns of airflow to accommodate any room layout are available.

The number of outlet can be set to 4, 3, or 2. Flexible airflow is available by fixing the up-down airflow direction of the outlet with a wired remote controller (or manually).





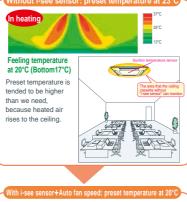


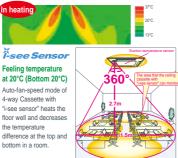
"i-see sensor" can be used with ceiling cassette type 4-way airflow unit. (Option PAC-SA1ME-E, PLFY-VBM-E ONLY)

570mm

New 4-way Cassette PLFY-VBM controls the temperature difference at the top and bottom in a room by checking the floor temperature with "i-see sensor". Comfortable air conditioning can be realized smoothly with "sensible temperature control." (Option PAC-SA1ME-E, PLFY-VBM-E ONLY)

Prevents overcooling/overheating, and improves comfort/energy-efficiency





## ► Specifications

| Cooling   |   |  |  | DI EV-D22\/RM-E            | DI EV-DAOV/RM-   |  | PLFY-P63VBM-E   |  |                  |                            |  |  |  |
|---|---|--|--|----------------------------|--|--|---|--|------------------|----------------------------|--|--|--|
| Cooling<br>Cooling  | ource   |  |  | FLF1-F32VDIVI-E            |  |  | 0-240V 50Hz / 1-phas  |  |                  |                            |  |  |  |
| Cooling   |   | *1   | kW   | 3.6                        | 4.5  | 5.6  | 7.1   | 9.0  | 11.2             | 14.0                       |  |  |  |
|   | capacity  | / <u>*</u> 1   | BTU/h  | 12.300                     | 15.400   | 19.100   | 24,200  | 30,700   | 38,200           | 47,800                     |  |  |  |
|   | capacity  |  | kW   | 3.7                        | 4.6  | 5.7  | 7.2   | 9.2  | 11.4             | 14.2                       |  |  |  |
| Heating   |   | *1   | kW   | 4.0                        | 5.0  | 6.3  | 8.0   | 10.0   | 12.5             | 16.0                       |  |  |  |
| . icaung  | capacity  | / <u>*</u> 1   | BTU/h  | 13,600                     | 17,100   | 21,500   | 27,300  | 34,100   | 42,700           | 54,600                     |  |  |  |
| Power   |   | Cooling  | kW   | 0.03                       |  | 0.04   | 0.05  | 0.07   | 0.15             | 0.16                       |  |  |  |
| consum  | ntion   | Heating  | kW   | 0.02                       |  | 0.03   | 0.04  | 0.06   | 0.14             | 0.15                       |  |  |  |
| conounq   | puon  | Cooling  | A  | 0.22                       |  | ).29   | 0.36  | 0.51   | 1.00             | 1.07                       |  |  |  |
| Current   |   | Heating  | A  | 0.14                       |  | ).22   | 0.29  | 0.43   | 0.94             | 1.00                       |  |  |  |
| External  | l finish  | Unit   |  | ••••                       | Galvanized steel sheet                                   |  |   |  |                  |                            |  |  |  |
| (Munsell  |   | Panel  |  |                            |  |  | White (6.4Y 8.9/0.4)  |  |                  |                            |  |  |  |
| Dimensi   |   | Unit   | mm(in.)  |                            | 258 x 840  |  | 298 x 840 x 840 (11-  | 3/4 x 33-1/8 x 33-1/8)                                   |                  |                            |  |  |  |
| HxWxD   | D   | Panel  | mm(in.)  |                            |  | 35 x 950   | x 950 (1-3/8 x 37-7/16  | 6 x 37-7/16)   |                  |                            |  |  |  |
|   |   | Unit   | kg(lbs.)   |                            | 22 (49)  |  | 23  | (51)   | 27               | (60)                       |  |  |  |
| Net weig  | ght   | Panel  | kg(lbs.)   |                            |  |  | 6 (   | 13)  |                  |                            |  |  |  |
| Heat exc  | changer   |  |  |                            | 6 (13)<br>Cross fin (Aluminum plate fin and copper tube) |  |   |  |                  |                            |  |  |  |
|   |   | Quantity   |  |                            | Turbo fan x 1  |  |   |  |                  |                            |  |  |  |
|   | A : (1  | *2   | m³/min   | 11-12-13-14                | 12-1   | 3-14-16  | 14-15-16-18   | 16-18-20-22  | 21-24-27-29      | 22-25-28-30                |  |  |  |
|   | Airflow   | -Mid2-Hi)  | L/s  | 183-200-217-233            | 200-21   | 7-233-267  | 233-250-267-300   | 267-300-333-367  | 350-400-450-483  | 367-417-467-500            |  |  |  |
|   | (LO-IVIIU I   | -101102-111)   | cfm  | 388-424-459-494            | 424-45   | 9-494-565  | 494-530-565-636   | 565-636-706-777  | 742-848-953-1024 | 777-883-989-1059           |  |  |  |
|   | External sta  | atic pressure  | Pa   |                            |  |  | 0   |  |                  |                            |  |  |  |
|   | Туре  |  |  |                            |  |  | DC motor  |  |                  |                            |  |  |  |
| Motor   | Output  |  | kW   |                            |  | 0.050  |   |  | 0.1              | 20                         |  |  |  |
| Air filter  |   |  |  |                            |  |  | PP Honeycomb  |  |                  |                            |  |  |  |
|   |   | Gas  | (in )  | ø12.7                      | (ø1/2)   | ø12.7 (ø1/2) / ø15.88 (ø5                          | <sup>8)</sup> ø15.88  | R(a5/8)  | ø15.88 (ø5/8)    | / ø19.05 (ø3/4)            |  |  |  |
| Refriger  | ant   | (Flare)  | mm(in.)  | 012.1                      | (01/2)   | (Compatible)                                       | 15.00   | 5(25/6)  |                  | patible)                   |  |  |  |
| pipe dia  | meter   | Liquid<br>(Flare)  | mm(in.)  | ø6.35                      | (ø1/4)   | ø6.35 (ø1/4) / ø9.52 (ø3/<br>(Compatible)          | 3)  | ø9.52  | 2 (ø3/8)         |                            |  |  |  |
| Field dra   | in nine d   | liameter   | mm(in.)  |                            |  | (00000000)   | O.D. 32 (1-1/4)   |  |                  |                            |  |  |  |
|   |   |  |  |                            |  |  |   |  |                  |                            |  |  |  |
| (Lo-Mid1  | 1-Mid2-Hi   | essure level<br>/lid2-Hi) *2 *3  |  | *2 *3 dB(A) 27-28-29-31    |  | 8-30-31  | 28-29-30-32   | 30-32-35-37  | 34-37-39-41      | 35-38-41-43                |  |  |  |
|   |   | / -  |  |                            |  |  |   |  |                  |                            |  |  |  |
|   |   |  |  | PLFY-P15VCM                | I-E2 PLEY  | -P20VCM-E2   | PLFY-P25VCM-E2  | PLFY-P32   | /CM-E2 PL        | FY-P40VCM-E2               |  |  |  |
| Power s   | source  |  |  |                            |  |  | -phase 220-240V 50  |  |                  |                            |  |  |  |
|   |   | *1   | kW   | 1.7                        |  | 2.2  | 2.8   | 3.6  |                  | 4.5                        |  |  |  |
| Cooling   | capacit   | y .<br>*1  | BTU/h  | 5,800                      |  | 7,500  | 9,600   | 12,30  | 0                | 15,400                     |  |  |  |
| Cooling   | capacit   | y *4   | kW   | 1.7                        |  | 2.2  | 2.8   | 3.7  |                  | 4.6                        |  |  |  |
| Hosting   | g capacit   | , *1   | kW   | 1.9                        |  | 2.5  | 3,2   | 4.0  |                  | 5.0                        |  |  |  |
| Tieating  | y capacit   | <sup>y</sup> *1  | BTU/h  | 6,500                      |  | 8,500  | 10,900  | 13,60  | 0                | 17,100                     |  |  |  |
| Power   |   | Cooling  | kW   | 0.04                       |  | 0.05   | 0.05  | 0.06   |                  | 0.06                       |  |  |  |
| consum  | nption  | Heating  | kW   | 0.04                       |  | 0.05   | 0.05  | 0.06   |                  | 0.06                       |  |  |  |
| Current   |   | Cooling  | A  | 0.19                       |  | 0.23   | 0.23  | 0.28   |                  | 0.28                       |  |  |  |
|   |   | Heating  | Α  | 0.19                       |  | 0.23   | 0.23  | 0.28   |                  | 0.28                       |  |  |  |
| Externa   |   | Unit   |  |                            |  | Galvanized   | teel sheet with gray heat insulation  |  |                  |                            |  |  |  |
| (Munco  | ell No.)  | Panel  |  |                            |  |  | White (6.4Y 8.9/0.4)  |  |                  |                            |  |  |  |
| (munse  |   | Unit   | mm(in.)  |                            |  | 208 x 57   | 0 x 570 (8-1/4 x 22-1/  | 2 x 22-1/2)  |                  |                            |  |  |  |
| Dimens  | D   | Panel  | mm(in.)  |                            |  | 20 x 650   | x 650 (13/16 x 25-5/  | 8 x 25-5/8)  |                  |                            |  |  |  |
| `   | iaht  | Unit   | kg(lbs.)   |                            | 1  | 5.5 (35)   |   |  | 17 (38)          |                            |  |  |  |
| Dimensi<br>H x W x  | gin   | Panel  | kg(lbs.)   |                            |  | 3 (7)  |   |  | 3 (7)            |                            |  |  |  |
| Dimens  |   |  | ng(1001)   |                            |  |  |   |  |                  |                            |  |  |  |
| Dimensi<br>H x W x<br>Net wei   | change  | r  |  |                            |  | Cross fin (Aluminum fin and copper tube)           |   |  |                  |                            |  |  |  |
| Dimensi<br>H x W x<br>Net wei<br>Heat ex  | -   | r<br>Quantity  |  |                            |  | Cross fin  | (Aluminum fin and co<br>Turbo fan x 1   | opper tube)  |                  |                            |  |  |  |
| Dimens<br>H x W x<br>Net wei<br>Heat ex   | Туре х  | Quantity   | m³/min   | 8-8.5-9                    |  | Cross fin<br>8-9-10                                |   | opper tube)<br>8-9-1                                     | 1                | 8-9-11                     |  |  |  |
| Dimens<br>H x W x<br>Net weig<br>Heat ex  | Type x  | Quantity<br>rate *2  | m³/min   |                            |  | 8-9-10   | Turbo fan x 1<br>8-9-10   | 8-9-1  |                  |                            |  |  |  |
| Dimens<br>H x W x<br>Net weig<br>Heat ex  | Туре х  | Quantity<br>rate *2  | m³/min<br>L/s  | 133-142-150                |  | 8-9-10   | Turbo fan x 1<br>8-9-10<br>133-150-167  | 8-9-1  | -183             | 133-150-183                |  |  |  |
| Dimensi<br>H x W x<br>Net wein<br>Heat ex   | Type x of Airflow (Lo-Mid   | Quantity<br>rate *2<br>I-Hi)   | m³/min   |                            |  | 8-9-10   | Turbo fan x 1<br>8-9-10   | 8-9-1  | -183             |                            |  |  |  |
| Dimensi<br>H x W x<br>Net weig<br>Heat ex<br>Fan  | Type x of<br>Airflow<br>(Lo-Mid<br>Externa  | Quantity<br>rate *2<br>I-Hi)   | m³/min<br>L/s  | 133-142-150                |  | 8-9-10   | Turbo fan x 1<br>8-9-10<br>133-150-167  | 8-9-1  | -183             | 133-150-183                |  |  |  |
| Dimens<br>H x W x<br>Net weig<br>Heat ex<br>Fan   | Type x d<br>Airflow<br>(Lo-Mid<br>Externa<br>p<br>Type  | Quantity<br>rate *2<br>I-Hi)<br>I static<br>pressure   | m³/min<br>L/s<br>cfm<br>Pa                             | 133-142-150                |  | 8-9-10<br>3-150-167<br>3-318-353                   | Turbo fan x 1<br>8-9-10<br>133-150-167<br>283-318-353   | 8-9-1<br>133-150<br>283-318                              | -183             | 133-150-183                |  |  |  |
| Dimensi<br>H x W x<br>Net weig<br>Heat ex<br>Fan  | Type x of<br>Airflow<br>(Lo-Mid<br>Externa  | Quantity<br>rate *2<br>I-Hi)<br>I static<br>pressure   | m³/min<br>L/s<br>cfm                                   | 133-142-150                |  | 8-9-10<br>3-150-167<br>3-318-353                   | Turbo fan x 1<br>8-9-10<br>133-150-167<br>283-318-353<br>0  | 8-9-1<br>133-150<br>283-318                              | -183             | 133-150-183                |  |  |  |
| Dimens<br>H x W x<br>Net weig<br>Heat ex<br>Fan   | Type x of<br>Airflow<br>(Lo-Mid<br>Externa<br>p<br>Type<br>Outp   | Quantity<br>rate *2<br>I-Hi)<br>I static<br>pressure   | m³/min<br>L/s<br>cfm<br>Pa                             | 133-142-150<br>283-300-353 |  | 8-9-10<br>3-150-167<br>3-318-353                   | Turbo fan x 1<br>8-9-10<br>133-150-167<br>283-318-353<br>0<br>I-phase induction mo  | 8-9-1<br>133-150<br>283-318<br>tor<br>0.02               | -183             | 133-150-183<br>283-318-388 |  |  |  |
| Fan<br>Motor<br>Refriger  | Type x (<br>Airflow<br>(Lo-Mid<br>Externa<br>p<br>Type<br>Outp<br>r<br>rant                             | Quantity<br>rate *2<br>I-Hi)<br>I static<br>pressure   | m³/min<br>L/s<br>cfm<br>Pa                             | 133-142-150<br>283-300-353 |  | 8-9-10<br>3-150-167<br>3-318-353                   | Turbo fan x 1<br>8-9-10<br>133-150-167<br>283-318-353<br>0<br>I-phase induction mo<br>0.015   | 8-9-1<br>133-150<br>283-318<br>tor<br>0.02               | -183             | 133-150-183<br>283-318-388 |  |  |  |
| Dimens<br>H x W x  <br>Net weig<br>Heat ex<br>Fan<br>Motor  | Type x (<br>Airflow<br>(Lo-Mid<br>Externa<br>p<br>Type<br>Outp<br>r<br>rant                             | Quantity<br>rate *2<br>I-Hi) *2<br>Il static<br>pressure<br>ut   | m³/min<br>L/s<br>cfm<br>Pa<br>kW                       | 133-142-150<br>283-300-353 |  | 8-9-10<br>3-150-167<br>3-318-353                   | Turbo fan x 1<br>8-9-10<br>133-150-167<br>283-318-353<br>0<br>1-phase induction mo<br>0.015<br>neycomb fabric (long                                 | 8-9-1<br>133-150<br>283-318<br>tor<br>0.02               | -183             | 133-150-183<br>283-318-388 |  |  |  |
| Dimens<br>H x W x<br>Net weig<br>Heat ex<br>Fan<br>Motor<br>Air filter<br>Refriger<br>pipe dia              | Type x (<br>Airflow<br>(Lo-Mid<br>Externa<br>p<br>Type<br>Outp<br>r<br>rant<br>ameter                   | Quantity<br>rate *2<br>-Hi) *1<br>Il static<br>ressure<br>ut<br>Gas(Flare)                               | m³/min<br>L/s<br>cfm<br>Pa<br>kW<br>mm(in.)            | 133-142-150<br>283-300-353 |  | 8-9-10<br>3-150-167<br>3-318-353<br>0.011<br>PP Ho | Turbo fan x 1<br>8-9-10<br>133-150-167<br>283-318-353<br>0<br>I-phase induction mo<br>0.015<br>neycomb fabric (long<br>ø12.7 (ø1/2)                 | 8-9-1<br>133-150<br>283-318<br>tor<br>0.02<br>life type) | -183             | 133-150-183<br>283-318-388 |  |  |  |
| Dimens<br>H x W x<br>Net weig<br>Heat ex<br>Fan<br>Motor<br>Air filter<br>Refriger<br>pipe dia<br>Field dra | Type x (<br>Airflow<br>(Lo-Mid<br>Externa<br>p<br>Outp<br>r<br>rant<br>ameter<br>ain pipe o<br>pressure | Quantity<br>rate *2<br>-Hi) *1<br>al static<br>oressure<br>ut<br>Gas(Flare)<br>Liquid(Flare)<br>diameter | m³/min<br>L/s<br>cfm<br>Pa<br>kW<br>mm(in.)<br>mm(in.) | 133-142-150<br>283-300-353 | 3 28   | 8-9-10<br>3-150-167<br>3-318-353<br>0.011<br>PP Ho | Turbo fan x 1<br>8-9-10<br>133-150-167<br>283-318-353<br>0<br>I-phase induction mo<br>0.015<br>neycomb fabric (long<br>ø12.7 (ø1/2)<br>ø6.35 (ø1/4) | 8-9-1<br>133-150<br>283-318<br>tor<br>0.02<br>life type) | -183             | 133-150-183<br>283-318-388 |  |  |  |

|            |             |                     |              | PLFY-P32VBM-E               | PLFY-P40VBM-E  | E PLFY-P50VBM-                              | -E    | PLFY-P63VBM-E                  | PLFY-P80VBM-E                      | PLFY-P100VBM-E                 | PLFY-P125VBM-E                 |  |  |
|------------|-------------|---------------------|--------------|-----------------------------|--|---|-------|--------------------------------|------------------------------------|--------------------------------|--------------------------------|--|--|
| Power s    | source      |                     |              |                             |  |   | _     | 240V 50Hz / 1-phas             |                                    |                                |                                |  |  |
| Cooling    | g capacity  | , *1                | kW           | 3.6                         | 4.5  | 5.6   |       | 7.1                            | 9.0                                | 11.2                           | 14.0                           |  |  |
| Cooling    | J capacity  | ′ *1                | BTU/h        | 12,300                      | 15,400   | 19,100                                      |       | 24,200                         | 30,700                             | 38,200                         | 47,800                         |  |  |
| Cooling    | g capacity  |                     | kW           | 3.7                         | 4.6  | 5.7   |       | 7.2                            | 9.2                                | 11.4                           | 14.2                           |  |  |
| Heating    | a capacit   | , <sup>*</sup> 1    | kW           | 4.0                         | 5.0  | 6.3   | _     | 8.0                            | 10.0                               | 12.5                           | 16.0                           |  |  |
|            |             | *1                  | BTU/h        | 13,600                      | 17,100   | 21,500                                      | _     | 27,300                         | 34,100                             | 42,700                         | 54,600                         |  |  |
| Power      | antion      | Cooling<br>Heating  | kW<br>kW     | 0.03                        |  | 0.04<br>0.03                                | -     | 0.05                           | 0.07                               | 0.15                           | 0.16                           |  |  |
| consum     | nption      | Cooling             | A            | 0.02                        |  | 0.03  | -     | 0.04                           | 0.06                               | 0.14                           | 0.15                           |  |  |
| Current    | t           | Heating             | A            | 0.22                        |  | 0.29  | -     | 0.38                           | 0.43                               | 0.94                           | 1.07                           |  |  |
| Externa    | al finish   | Unit                | ~            | 0.14                        |  |   | Ga    | alvanized steel she            |                                    | 0.04                           | 1.00                           |  |  |
| (Munse     |             | Panel               |              |                             |  |   |       | Vhite (6.4Y 8.9/0.4)           |                                    |                                |                                |  |  |
| Dimens     | sion        | Unit                | mm(in.)      |                             | 258 x 840 x 840 (10-3/16 x 33-8/1 x 33-8/1) 298 x 840 x 840 (10-3/16 x 33-8/1) |   |       |                                |                                    |                                |                                |  |  |
| HxWx       | D           | Panel               | mm(in.)      |                             | 35 x 950 x 950 (1-3/8 x 37-7/16 x 37-7/16)                                     |   |       |                                |                                    |                                |                                |  |  |
| Net wei    | iaht        | Unit                | kg(lbs.)     |                             | 22 (49) 23 (51) 27 (60)  |   |       |                                |                                    |                                |                                |  |  |
|            | ·           | Panel               | kg(lbs.)     |                             | 6 (13)   |   |       |                                |                                    |                                |                                |  |  |
| Heat ex    | kchanger    |                     |              |                             |  | Cross fin (                                 | Alur  | minum plate fin and            | copper tube)                       |                                |                                |  |  |
|            | Type x      | Quantity            |              | 11-12-13-14                 | Tu<br>11-12-13-14 12-13-14-16 14   |   |       |                                | 40.40.00.00                        | 04 04 07 00                    | 00.05.00.00                    |  |  |
| For        | Airflow     |                     | m³/min       | 11-12-13-14 183-200-217-233 |  | 7-233-267                                   | -     | 14-15-16-18<br>233-250-267-300 | 16-18-20-22<br>267-300-333-367     | 21-24-27-29<br>350-400-450-483 | 22-25-28-30<br>367-417-467-500 |  |  |
| Fan        | (Lo-Mid1    | -Mid2-Hi)           | L/s<br>cfm   | 388-424-459-494             |  | 59-494-565                                  |       | 494-530-565-636                | 267-300-333-367<br>565-636-706-777 |                                | 777-883-989-1059               |  |  |
|            | External st | atic pressure       | Pa           | 300-424-439-494             | 424-40   | 3-+34-303                                   |       | 494-530-565-636<br>0           | 303-030-700-777                    | 172-040-900-1024               | 1059-1059                      |  |  |
| <u> </u>   | Туре        | no procouro         | īα           |                             |  |   |       | DC motor                       |                                    |                                |                                |  |  |
| Motor      | Output      |                     | kW           |                             |  | 0.050                                       |       |                                |                                    | 0.                             | 120                            |  |  |
| Air filter | r ·         |                     |              |                             |  |   |       | PP Honeycomb                   |                                    |                                |                                |  |  |
|            | -           | Gas                 | <i>(</i> , ) | ø12.7                       | (a1/2)   | ø12.7 (ø1/2) / ø15.88 (ø                    | 5/8)  | ø15.88                         | (a5/8)                             | ø15.88 (ø5/8)                  | / ø19.05 (ø3/4)                |  |  |
| Refrige    | rant        | (Flare)             | mm(in.)      | 212.1                       | (01/2)   | (Compatible)                                |       | Ø15.00                         | (25/8)                             |                                | patible)                       |  |  |
| pipe dia   | ameter      | Liquid<br>(Flare)   | mm(in.)      | ø6.35                       | (ø1/4)   | ø6.35 (ø1/4) / ø9.52 (ø3/8)<br>(Compatible) |       |                                | ø9.52                              | 2 (ø3/8)                       |                                |  |  |
| Field dr   | ain pipe o  | liameter            | mm(in.)      |                             |  | (company)                                   |       | O.D. 32 (1-1/4)                |                                    |                                |                                |  |  |
| Sound      | pressure    | level               | dB(A)        | 27-28-29-31                 | 27.2   | 8-30-31                                     |       | 28-29-30-32                    | 30-32-35-37                        | 34-37-39-41                    | 35-38-41-43                    |  |  |
| (Lo-Mid    | 11-Mid2-H   | i) *2 *3            | UD(A)        | 27-20-29-31                 | 21-2   | 1-20-30-31                                  |       | 20-29-30-32                    | 30-32-33-37                        | 34-37-39-41                    | 33-36-41-43                    |  |  |
|            |             |                     |              | PLFY-P15VCM                 | I-E2 PLFY  | (-P20VCM-E2                                 |       | PLFY-P25VCM-E2                 | PLFY-P32                           | /CM-E2 PL                      | FY-P40VCM-E2                   |  |  |
| Power      | source      |                     |              |                             |  |   |       | hase 220-240V 50               |                                    |                                |                                |  |  |
| Cooling    | g capacit   | ., *1               | kW           | 1.7                         |  | 2.2   |       | 2.8                            | 3.6                                |                                | 4.5                            |  |  |
|            | • •         | · ^1                | BTU/h        | 5,800                       |  | 7,500                                       |       | 9,600                          | 12,30                              | 0                              | 15,400                         |  |  |
| Cooling    | g capacit   |                     | kW           | 1.7                         |  | 2.2   |       | 2.8                            | 3.7                                |                                | 4.6                            |  |  |
| Heating    | g capacit   | y *1<br>y *1        | kW<br>BTU/h  | 1.9                         |  | 2.5   |       | 3,2                            | 4.0                                | 0                              | 5.0                            |  |  |
| Power      |             | Cooling             | kW           | 6,500<br>0.04               |  | 8,500                                       |       | 10,900<br>0.05                 | 13,60                              |                                | 17,100<br>0.06                 |  |  |
| consun     | nption      | Heating             | kW           | 0.04                        |  | 0.05  |       | 0.05 0.0                       |                                    |                                | 0.06                           |  |  |
|            |             | Cooling             | Α            | 0.19                        |  | 0.23  |       | 0.23                           | 0.28                               |                                | 0.28                           |  |  |
| Curren     | it          | Heating             | A            | 0.19                        |  | 0.23  |       | 0.23                           | 0.28                               |                                | 0.28                           |  |  |
| Externa    | al finish   | Unit                |              |                             |  | Galvanized                                  | l ste | el sheet with gray l           | neat insulation                    |                                |                                |  |  |
| (Munse     | ell No.)    | Panel               |              |                             |  |   | V     | Vhite (6.4Y 8.9/0.4)           |                                    |                                |                                |  |  |
| Dimens     |             | Unit                | mm(in.)      |                             |  |   |       | x 570 (8-1/4 x 22-1/           |                                    |                                |                                |  |  |
| HxWx       | ( D         | Panel               | mm(in.)      |                             |  |   | i0 x  | 650 (13/16 x 25-5/8            | 8 x 25-5/8)                        |                                |                                |  |  |
| Net we     | eight       | Unit                | kg(lbs.)     |                             | 1  | 15.5 (35)                                   |       |                                |                                    | 17 (38)                        |                                |  |  |
|            | -           | Panel               | kg(lbs.)     |                             |  | 3 (7)                                       |       |                                |                                    | 3 (7)                          |                                |  |  |
| Heat e     | xchange     |                     |              |                             |  | Cross fi                                    | n (A  | luminum fin and co             | pper tube)                         |                                |                                |  |  |
|            | Type x      | Quantity            | m³/min       | 8-8 5-0                     |  | 8-9-10                                      |       | lurbo fan x 1                  | 8-9-1                              | 1                              | 8-9-11                         |  |  |
| <b>_</b>   |             | rate *2             |              | 8-8.5-9                     |  |   |       | 8-9-10                         |                                    |                                |                                |  |  |
| Fan        | (Lo-Mid     | -==1)               | L/s          | 133-142-150                 |  | 3-150-167                                   | _     | 133-150-167                    | 133-150                            |                                | 133-150-183                    |  |  |
|            | -           |                     | cfm          | 283-300-353                 | 28   | 3-318-353                                   |       | 283-318-353                    | 283-318                            | -388                           | 283-318-388                    |  |  |
|            | Externa     | I static<br>ressure | Ра           |                             |  |   |       | 0                              |                                    |                                |                                |  |  |
| Motor      | Туре        |                     |              |                             |  |   | 1-p   | hase induction mo              | tor                                |                                |                                |  |  |
|            | Outp        | ut                  | kW           | 0.008                       |  | 0.011                                       |       | 0.015                          | 0.02                               |                                | 0.02                           |  |  |
| Air filte  |             |                     |              |                             |  | PP H  | one   | ycomb fabric (long             | life type)                         |                                |                                |  |  |
| Refrige    |             | Gas(Flare)          | mm(in.)      |                             |  |   | _     | ø12.7 (ø1/2)                   |                                    |                                |                                |  |  |
|            | ameter      | Liquid(Flare)       | mm(in.)      |                             |  |   |       | ø6.35 (ø1/4)                   |                                    |                                |                                |  |  |
|            | rain pipe   |                     | mm(in.)      |                             |  | O.D. 32 (1                                  | -1/4  | ) (PVC pipe VP-25              | connectable)                       |                                |                                |  |  |
|            | id-Hi)      | *2 *3               | dB(A)        | 28-30-31                    | 2  | 28-31-35                                    |       | 29-31-37                       | 29-33-                             | 38                             | 30-34-39                       |  |  |
| (LO-IVII   | -           |                     |              |                             |  |   |       |                                |                                    |                                |                                |  |  |

#### Notes:

- \*1 Cooling/Heating capacity indicates the maximum value at operation under the following condition. Cooling : Indoor 27°C(81°F)DB/19°C(66°F)WB,Outdoor 35°C(95°F)DB Heating : Indoor 20°C(68°F)DB,Outdoor 7°C(45°F)DB/6°C(43°F)WB
- \*2 Airflow rate/Sound pressure level are in (low-middle-high) or (low-middle1-middle2-high).
- $^{\star}3~$  It is measured in an echoic room at power source 230V.
- \*4 Reference data under condition of Indoor 27°C(81°F)DB/19.5°C(67°F)WB, Outdoor 35°C(95°F)DB



## **INDOOR UNIT** Ceiling cassette type 2-way airflow PLFY-P VLMD-E

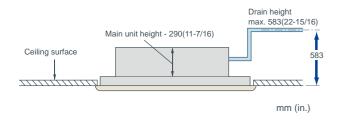


### Slim body of 290mm(11-7/16in.) height



#### Equipped with drain pump mechanism as standard

The drain can be positioned anywhere up to 583mm(22-15/16in.) from the ceiling's surface, providing greater freedom with long cross-piping and allowing more versatility with piping layouts.



#### Compact unit and low noise level attained!

Sound pressure level table (Standard static pressure) at 0Pa

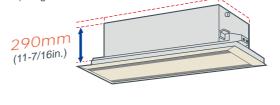
|                |              |      |     |     |     |     |     |     |     |      | dB(A) |
|----------------|--------------|------|-----|-----|-----|-----|-----|-----|-----|------|-------|
|                | Capacity     |      | P20 | P25 | P32 | P40 | P50 | P63 | P80 | P100 | P125  |
| Sound pressure |              | High |     | 33  |     | 36  | 37  | 39  | 39  | 42   | 46    |
| Level          | Fan<br>Speed | Mid  |     | 30  |     | 33  | 34  | 37  | 36  | 39   | 42/44 |
|                | opood        | Low  |     | 27  |     | 29  | 31  | 32  | 33  | 36   | 40    |
| <220V.24       | 40V>         |      |     |     |     |     |     |     |     |      |       |

|              |      |                  |         |                     |                     |                             |   |   |   | dB(A)   |
|--------------|------|------------------|---------|---------------------|---------------------|-----------------------------|---|---|---|---|
| Capacity     |      | P20              | P25     | P32                 | P40                 | P50                         | P63   | P80   | P100  | P125  |
|              | High |                  | 34      |                     | 37                  | 38                          | 40  | 40  | 43  | 46  |
| Fan<br>Speed | Mid  |                  | 31      |                     | 34                  | 35                          | 38  | 37  | 41  | 42/44   |
| opoou        | Low  | 28               |         |                     | 30                  | 32                          | 33  | 34  | 37  | 40  |
|              |      | Fan<br>Speed Mid | Fan Mid | Fan<br>Speed Mid 31 | Fan<br>Speed Mid 31 | High3437Fan<br>SpeedMid3134 | High         34         37         38           Fan<br>Speed         Mid         31         34         35 | Fan<br>Speed         High         34         37         38         40           Mid         31         34         35         38 | Fan<br>Speed         High         34         37         38         40         40           Mid         31         34         35         38         37 | High         34         37         38         40         40         43           Fan<br>Speed         Mid         31         34         35         38         37         41 |

<230V>

#### Slim body - only 290mm(11-7/16in.) height

The slimline body is highly suitable for installation in narrow ceiling spaces and for replacing obsolete air-conditioning equipment in older buildings. The main unit is only 290mm(11-7/16in.) height.



Terminal block on outside of main unit makes wiring easier

#### Fresh air directly taken in

Fresh air can be taken in to the main unit directly (optional accessories needed.)

#### Long life filter equipped as standard

The antibacterial long life filter does not require maintenance for approximately a year.

#### Easy installation

Lighter panel and placing the electric board near the panel make installation and maintenance easier. Also, the heat exchanger is washable by displacing the center panel, filter, and fan.

## ► Specifications

|            |   |                                    |          | PLFY-P20VLMD-E      | PLFY-P25\            |                    | PLFY-P32VLMD-E              | P  | LFY-P40VLMD-E                          |  |
|------------|---|------------------------------------|----------|---------------------|----------------------|--------------------|-----------------------------|--|--|--|
| Power s    | source  |                                    |          |                     |                      | 20-240V 50Hz / 1-p | hase 220-230V 60Hz          |  |  |  |
| Coolina    | capacity  | , *1                               | kW       | 2.2                 | 2.8                  |                    | 3.6                         |  | 4.5                                    |  |
| 0          |   | *1                                 | BTU/h    | 7,500               | 9,60                 |                    | 12,300                      |  | 15,400                                 |  |
| Cooling    | capacity  |                                    | kW       | 2.2                 | 2.8                  |                    | 3.7                         |  | 4.6                                    |  |
| Heating    | capacit   | , *1                               | kW       | 2.5                 | 3.2                  |                    | 4.0                         |  | 5.0                                    |  |
|            |   | *1                                 | BTU/h    | 8,500               | 10,90                |                    | 13,600                      |  | 17,100                                 |  |
| Power      |   | Cooling                            | kW       | 0.072 / 0.075       | 0.072/0              |                    | 0.072 / 0.075               |  | 0.081 / 0.085                          |  |
| consum     | ption   | Heating                            | kW       | 0.065 / 0.069       | 0.065/0              |                    | 0.065 / 0.069               |  | 0.074 / 0.079                          |  |
| Current    |   | Cooling                            | A        | 0.36 / 0.37         | 0.36/0               |                    | 0.36 / 0.37                 |  | 0.40 / 0.42                            |  |
| _          |   | Heating                            | A        | 0.30 / 0.32         | 0.30/0               |                    | 0.30 / 0.32                 |  | 0.34 / 0.37                            |  |
| Externa    |   | Unit                               |          |                     |                      | Galvanized ste     |                             |  |  |  |
| 1          | Insell No.)         Panel         Pure white (6.4Y 8.9/0.4)           ension         Unit         mm (in.)         290 x 776 x 634 (11-7/16 x 30-9/16 x 25) |                                    |          |                     |                      |                    |                             |  | -                                      |  |
| Dimensio   |   |                                    | . ,      |                     |                      |                    | ,                           |  |  |  |
| HxWx[      | )   | Panel                              | mm (in.) |                     |                      | 1080 x 710 (13/16  | /                           | 4 (50)   |  |  |
| Net wei    | ght   | Unit                               | kg(lbs.) |                     | 23 (51)              |                    |                             | 24 (53)  |  |  |
|            |   | Panel                              | kg(lbs.) |                     |                      | 6.5 (15)           |                             |  |  |  |
| Heat ex    | changer   |                                    |          |                     |                      | Cross fi           |                             |  |  |  |
|            | iype x  | Quantity                           |          |                     |                      | Turbo fan          | x 1                         |  | 7005405                                |  |
| _          | Airflow   | rate *2                            | m³/min   |                     | 6.5-8.0              |                    |                             |  | 7.0-8.5-10.5                           |  |
| Fan        | (Lo-Mid   | -Hi)                               | L/s      |                     | 108-133              |                    |                             |  | 117-142-175                            |  |
|            | Extornal -  | tio pressure                       | cfm      |                     | 230-283              |                    |                             |  | 247-300-371                            |  |
|            |   | atic pressure                      | Pa       |                     |                      | 0                  |                             |  |  |  |
| Motor      | Type<br>Output  |                                    | 1.1.47   |                     |                      | 1-phase induction  |                             |  |  |  |
|            |   |                                    | kW       |                     |                      | 0.015 (at 24       | ,                           |  |  |  |
| Air filter |   |                                    |          |                     | PP                   | honeycomb fabric   |                             |  |  |  |
| Refriger   |   | Gas(Flare)                         | mm(in.)  |                     |                      | ø12.7 (ø1          |                             |  |  |  |
| pipe dia   |   | Liquid(Flare)                      | mm(in.)  |                     |                      | ø6.35 (ø1          |                             |  |  |  |
|            | ain pipe o  |                                    | mm(in.)  |                     | 27-30-               | O.D.32 (1-         | 1/4)                        | _  |  |  |
|            | ssure level   |                                    | dB(A)    |                     |                      | 29-33-36           |                             |  |  |  |
| (Lo-Mid-Hi | i) *2 *3  | 230V                               | dB(A)    |                     | 28-31-               | -34                |                             |  | 30-34-37                               |  |
|            |   |                                    |          | PLFY-P50VLMD-E      | PLFY-P63VLMD-E       | PLFY-P80VL         | MD-E PLFY-P100VL            | MD-E   | PLFY-P125VLMD-E                        |  |
| Powers     | source  |                                    |          |                     | 1-phase 220-240      | V 50Hz / 1-phase 2 | 20-230V 60Hz                |  |  |  |
| o "        |   | *1                                 | kW       | 5.6                 | 7.1                  | 9.0                | 11.2                        |  | 14.0                                   |  |
| Cooling    | capacit   | y *1                               | BTU/h    | 19,100              | 24,200               | 30,700             | 38,200                      |  | 47,800                                 |  |
| Cooling    | capacit   | y *4                               | kW       | 5.7                 | 7.2                  | 9.2                | 11.4                        |  | 14.2                                   |  |
|            |   | *1                                 | kW       | 6.3                 | 8.0                  | 10.0               | 12.5                        |  | 16.0                                   |  |
| Heating    | l capacit   | y *1                               | BTU/h    | 21,500              | 27,300               | 34,100             | 42,700                      |  | 54,600                                 |  |
| Power      |   | Cooling                            | kW       | 0.082 / 0.086       | 0.101 / 0.105        | 0.147 / 0.1        | 156 0.157 / 0.1             | 86   | 0.28 / 0.28                            |  |
| consum     | nption  | Heating                            | kW       | 0.075 / 0.080       | 0.094 / 0.099        | 0.140 / 0.1        | 150 0.150 / 0.1             | 80   | 0.27 / 0.27                            |  |
| 0          |   | Cooling                            | A        | 0.41 / 0.43         | 0.49 / 0.51          | 0.72/0.7           | 74 0.75 / 0.8               | 8  | 1.35 / 1.35                            |  |
| Current    |   | Heating                            | А        | 0.35 / 0.38         | 0.43 / 0.46          | 0.66 / 0.0         | 69 0.69 / 0.8               | 3  | 1.33 / 1.33                            |  |
| Externa    | al finish   | Unit                               |          |                     |                      | Galvanized ste     | el plate                    |  |  |  |
| (Munse     | ll No.)   | Panel                              |          |                     |                      | Pure white (6.4Y   | 8.9 / 0.4)                  |  |  |  |
| Dimens     | ion   | Unit                               | mm (in.) | 290 x 946 x 634 (11 | -7/16 x 37-1/4 x 25) | 290 x 1446         | x 634 (11-7/16 x 56-15/16 x | 25) 2  | 90 x 1708 x 606 (11-7/16 x 67-1/4 x 23 |  |
| HxW>       | ( D   | Panel                              | mm (in.) | 20 x 1250 x 710 (1  | 3/16 x 49-1/4 x 28)  | 20 x 1750          | x 710 (13/16 x 68-15/16 x 2 | .8) 2  | 20 x 2010 x 710 (13/16 x 79-3/16 x     |  |
| Net wei    | aht   | Unit                               | kg(lbs.) | 27 (60)             | 28 (62)              | 44 (98)            | 47 (104)                    |  | 56 (124)                               |  |
| INEL WE    | yn  | Panel                              | kg(lbs.) | 7.5                 | 17)                  |                    | 12.5 (28)                   |  | 13.0 (29)                              |  |
| Heat ex    | change  | -                                  |          |                     |                      | Cross fi           | n                           |  |  |  |
|            | Туре х  | Quantity                           |          | Turbo f             | an x 1               |                    | Turbo fan x 2               |  | Sirocco fan x 4                        |  |
|            | Airflow   | rate *2                            | m³/min   | 9.0-11.0-12.5       | 11.0-13.0-15.5       | 15.5-18.5-2        | 22.0 17.5-21.0-2            | 5.0  | 24.0-27.0-30.0-33.0                    |  |
| Fan        | (P50~P100   | :Lo-Mid-Hi)                        | L/s      | 150-183-208         | 167-217-258          | 258-308-3          | 67 292-350-4                | 17   | 400-450-500-550                        |  |
|            | (P125:Lo-N  | (id2-Mid1-Hi)                      | cfm      | 318-388-441         | 353-459-547          | 547-653-7          |                             |  | 848-953-1,059-1,165                    |  |
|            | External sta  | atic pressure                      | Pa       |                     |                      | 0                  |                             |  |  |  |
| Motor      | Туре  |                                    |          |                     |                      | 1-phase induction  | on motor                    |  |  |  |
| Motor      | Output  |                                    | kW       | 0.020 (a            | t 240V)              | 0.020 (at 24       | 40V) 0.030 (at 24           | 0V)  | 0.078 x 2 (at 240V)                    |  |
| Air filter |   | PP honeycomb fabric (long life typ |          |                     |                      | (long life type)   | :                           | Synthetic fiber unwove<br>cloth filter (long life) |  |  |
| Refrige    | rant  | Gas<br>(Flare)                     | mm(in.)  | ø12.7 (ø1/2)        |                      |                    | ø15.88 (ø5/8)               |  |  |  |
| pipe dia   |   | Liquid<br>(Flare)                  | mm(in.)  | ø6.35 (ø1/4)        |                      |                    | ø9.52 (ø3/8)                |  |  |  |
|            | ain pipe  | diameter                           | mm(in.)  |                     |                      | O.D.32 (1-         | 1/4)                        |  |  |  |
| Field dr   |   |                                    | dB(A)    | 31-34-37            | 32-37-39             | 33-36-3            | 9 36-39-4                   | 2  | 40-42-44-46                            |  |
|            | ssure level   | 220V,240V                          |          | 31-34-37            | 02 01 00             | 00000              | 00004                       | <u> </u>   | 40 42 44 40                            |  |

#### Notes:

- \*1 Cooling/Heating capacity indicates the maximum value at operation under the following condition. Cooling : Indoor 27°C(81°F)DB/19°C(66°F)WB,Outdoor 35°C(95°F)DB Heating : Indoor 20°C(68°F)DB,Outdoor 7°C(45°F)DB/6°C(43°F)WB
- \*2 Airflow rate/Sound pressure level are in (low-middle-high) or (low-middle2-middle1-high).
- \*3 It is measured in anechoic room.
- \*4 Reference data under condition of Indoor 27°C(81°F)DB/19.5°C(67°F)WB, Outdoor 35°C(95°F)DB



## **INDOOR UNIT** Ceiling cassette type 1-way airflow PMFY-P VBM-E



Compact and lightweight body perfect for limited ceiling space applications.



#### Compact size for smooth installation and maintenance

Unit body size has been standardized for all models at 812mm for easier installation. Body weight is only 14kg for the main unit and 3kg for the panel, making this unit one of the lightest in the industry.

#### **Quiet operation**

Newly developed airflow control technology reduces noise level to only 27dB (P20VBM) for industry-leading quiet performance.

#### Sound pressure level table

|               | Capa  | city  | P20 | P25 | P32 | P40 |
|---------------|-------|-------|-----|-----|-----|-----|
| Sound         |       | High  | 35  | 3   | 7   | 39  |
| pressure      | Fan   | Mid 1 | 33  | 3   | 36  |     |
| level         | Speed | Mid 2 | 30  | 3   | 4   | 35  |
|               |       |       | 27  | 32  |     | 33  |
| <220\/ 240\/> |       |       |     |     |     |     |

<220V,240V;

#### Drain pump

The drain can be positioned anywhere up to 600mm(23-5/8in.) from the ceiling's surface.



mm (in.)

## ► Specifications

|                               |                       |                 |   | PMFY-P20VBM-E   | PMFY-P25VBM-E        | PMFY-P32VBM-E         | PMFY-P40VBM-E    |  |  |  |  |  |
|-------------------------------|-----------------------|-----------------|---|---|----------------------|-----------------------|------------------|--|--|--|--|--|
| Power                         | source                |                 |   |   | 1-phase 220-240V 50H | z / 1-phase 220V 60Hz |                  |  |  |  |  |  |
| Cooling                       | g capacit             | , *1            | kW                                      | 2.2   | 2.8                  | 3.6                   | 4.5              |  |  |  |  |  |
| Coolini                       | Juapaci               | <sup>y</sup> *1 | BTU/h                                   | 7,500   | 9,600                | 12,300                | 15,400           |  |  |  |  |  |
| Cooling                       | g capacit             | y *4            | kW                                      | 2.2   | 2.8                  | 3.7                   | 4.6              |  |  |  |  |  |
| Hoating                       | g capacit             | *1              | kW                                      | 2.5   | 3.2                  | 4.0                   | 5.0              |  |  |  |  |  |
| Tieaunų                       | y capaci              | .y *1           | BTU/h                                   | 8,500   | 10,900               | 13,600                | 17,100           |  |  |  |  |  |
| Power                         |                       | Cooling         | kW                                      | 0.042   | 0.0                  | 0.054                 |                  |  |  |  |  |  |
| consun                        | nption                | Heating         | kW                                      | 0.042   | 0.0                  | 44                    | 0.054            |  |  |  |  |  |
| Current                       |                       | Cooling         | Α                                       | 0.20  | 0.2                  | 21                    | 0.26             |  |  |  |  |  |
|                               |                       | Heating         | Α                                       | 0.20  | 0.2                  | 21                    | 0.26             |  |  |  |  |  |
| External finish (Munsell No.) |                       | No.)            |   | White (0.98   | Y 8.99/0.63)         |                       |                  |  |  |  |  |  |
| Dimension Unit r              |                       | mm(in.)         | 230 x 812 x 395 (9-1/16 x 32 x 15-9/16) |   |                      |                       |                  |  |  |  |  |  |
| H x W x D P                   |                       | Panel           | mm(in.)                                 | 30 x 1000 x 470 (1-3/16 x 39-3/8 x 18-9/16)                         |                      |                       |                  |  |  |  |  |  |
| Net we                        | iaht                  | Unit            | kg(lbs.)                                | 14 (31)   |                      |                       |                  |  |  |  |  |  |
|                               | igin                  | Panel           | kg(lbs.)                                | 3 (7)   |                      |                       |                  |  |  |  |  |  |
| Heat ex                       | kchange               | r               |   | Cross fin (Aluminum plate fin and copper tube)<br>Line flow fan x 1 |                      |                       |                  |  |  |  |  |  |
|                               | Туре                  |                 |   |   |                      |                       |                  |  |  |  |  |  |
|                               | Airflow               | *2              | m³/min                                  | 6.5-7.2-8.0-8.7   | 7.3-8.0-             | 8.6-9.3               | 7.7-8.7-9.7-10.7 |  |  |  |  |  |
| Fan                           |                       | 2-Mid1-Hi)      | L/s                                     | 108-120-133-145   | 122-133-             | 143-155               | 128-145-162-178  |  |  |  |  |  |
|                               |                       |                 | cfm                                     | 230-254-283-307   | 258-283-             | 304-328               | 272-307-343-378  |  |  |  |  |  |
|                               | External st           | taticpressure   | Pa                                      |   | (                    | )                     |                  |  |  |  |  |  |
| Motor                         | Туре                  |                 |   |   | 1-phase indu         | uction motor          |                  |  |  |  |  |  |
| WOULD                         | Output                |                 | kW                                      |   | 0.0                  | 28                    |                  |  |  |  |  |  |
| Air filte                     | r                     |                 |   |   | PP Honeyo            | comb fabric           |                  |  |  |  |  |  |
| Refrige                       | rant                  | Gas(Flare)      | mm(in.)                                 |   | ø12.7                | (ø1/2)                |                  |  |  |  |  |  |
| pipe dia                      | ameter                | Liquid(Flare)   | mm(in.)                                 |   | ø6.35                | (ø1/4)                |                  |  |  |  |  |  |
| Field dr                      | ain pipe              | diameter        | mm(in.)                                 |   | O.D. 2               | 26 (1)                |                  |  |  |  |  |  |
|                               | pressure<br>12-Mid1-H |                 | dB(A)                                   | 27-30-33-35   | 32-34-               | 36-37                 | 33-35-37-39      |  |  |  |  |  |

Notes:

- \*1 Cooling/Heating capacity indicates the maximum value at operation under the following condition. Cooling : Indoor 27°C(81°F)DB/19°C(66°F)WB,Outdoor 35°C(95°F)DB Heating : Indoor 20°C(68°F)DB,Outdoor 7°C(45°F)DB/6°C(43°F)WB
- \*2 Airflow rate/Sound pressure level are in (low-middle2-middle1-high).
- \*3 It is measured in anechoic room.
- \*4 Reference data under condition of Indoor 27°C(81°F)DB/19.5°C(67°F)WB, Outdoor 35°C(95°F)DB

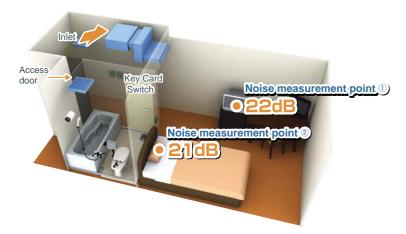
Indoor unit

## **INDOOR UNIT** Ceiling concealed type

## PEFY-P VMR-E-L/R

Static Pressure Width Ultra ping connect L model R model 640mm 5Pa Low Noise

Problem solver for residential hotels, museums, libraries, or hospitals where low noise is especially a must!



#### Operable by key card switch

It is possible to operate / stop by taking a key card in and out.

#### Ultra low noise

Quiet indoor environment can be achieved with 21dB around the bed and 22dB around the desk.

\*The noise level may differ by the room size or the setting of the unit.

#### Enables to install for symmetric design room

Left or right piping and control boxes are available depending on the layout of each room. Plus, as in the above figure, easy maintenance is possible from the access door in the bathroom. \*Seen from the front, the pipe and control box are on the right side for -R models.

#### Easy Maintenance

Drain pan and heat exchangers are washable from the access door in the bathroom, making maintenance easy and cost saving.

#### Energy saving

Energy saving can be realized by preventing us from failing to switch off of the air conditioners with a centralized system when no one is in the room.

Note: Compact and simple controllers, designed specifically to control only start/stop, fan speed and temperature can be set in each room for the occupants' enhanced individual comfort.

## ► Specifications

|   |   |   | PEFY-P20VMR-E-L  | PEFY-P25VMR-E-L   | PEFY-P32VMR-E-L   |  |  |  |  |
|---|---|---|--|---|---|--|--|--|--|
| Power sour  |   |   |  | nase 220-230-240V 50Hz / 1-phase 220-230V 60  |   |  |  |  |  |
| Cooling cap   | *1<br>pacity  | kW  | 2.2  | 2.8   | 3.6   |  |  |  |  |
| • •   | 1   | BTU/h   | 7,500  | 9,600   | 12,300  |  |  |  |  |
| Cooling cap   |   | kW  | 2.2  | 2.8   | 3.7   |  |  |  |  |
| Heating cap   | *1<br>pacity  | kW  | 2.5  | 3.2   | 4.0   |  |  |  |  |
| • •   | · · · · · · · · · · · · · · · · · · ·   | BTU/h   | 8,500  | 10,900  | 13,600  |  |  |  |  |
| Power   | Cooling   | kW  | 0.06 / 0.06  | 0.06 / 0.06   | 0.07 / 0.08   |  |  |  |  |
| consumptio  | 3   | kW  | 0.06 / 0.06  | 0.06 / 0.06   | 0.07 / 0.08   |  |  |  |  |
| Current   | Cooling   | A   | 0.29 / 0.29  | 0.29 / 0.29   | 0.34 / 0.38   |  |  |  |  |
|   | Heating   | A   | 0.29 / 0.29  | 0.29 / 0.29   | 0.34 / 0.38   |  |  |  |  |
| External fin  |   |   | Galvanized   |   |   |  |  |  |  |
| Dimension   | -   | mm (in.)  | 292 x 640 x 580 (11-1/2 x 25-1/4 x 22-7/8)   |   |   |  |  |  |  |
| HxWxD   | Bottom inlet  | mm (in.)  |  | 300 x 640 x 570 (11-7/8 x 25-1/4 x 22-1/2)  |   |  |  |  |  |
| Net weight  |   | kg(lbs.)  |  | 18 (40)   |   |  |  |  |  |
| Heat excha  | <u> </u>  |   |  | Cross fin (Aluminum fin and copper tube)  |   |  |  |  |  |
| lyp   | pe x Quantity   |   |  | Sirocco fan x 1   | 405000  |  |  |  |  |
| Airf  | flow rate   | m³/min  |  | 5.8-7.9   | 4.8-5.8-9.3   |  |  |  |  |
| Fan (Lo   | o-Mid-Hi)   | L/s   |  | 07-132  | 80-97-155   |  |  |  |  |
| · ·   |   | cfm   | 170-2  | 205-279   | 170-205-328   |  |  |  |  |
|   | ternal static<br>essure *2  | Pa  |  | 5   |   |  |  |  |  |
| Tvr   |   |   |  | 1-phase induction motor   |   |  |  |  |  |
|   | Itput   | kW  | 0  | 018   | 0.023   |  |  |  |  |
| Air filter  |   |   | 0.   | PP Honeycomb fabric (washable)  | 0.025   |  |  |  |  |
| Refrigerant   | t Gas   | mm(in.)   |  | ø12.7 (ø1/2) Brazed   |   |  |  |  |  |
| *   |   | mm(in.)   | ø6.35 (ø1/4) Brazed  |   |   |  |  |  |  |
|   | pipe diameter   | mm(in.)   |  | 0.D. 26 (1)   |   |  |  |  |  |
|   | 0001/   | ("1.)   | 20_4   | 25-30   | 20-25-33  |  |  |  |  |
| Sound press   | Sule  | dB(A)   |  | 26-32   | 21-26-35  |  |  |  |  |
|   |   |   |  |   |   |  |  |  |  |
| IEVEI (LO-IVIIC   |   | ()  |  |   |   |  |  |  |  |
| IEVEI (LO-IVIIC   |   | (-)   | 22-1   | 27-30   | 22-27-33  |  |  |  |  |
|   | *3 240V   | (-)   | 22-2<br>PEFY-P20VMR-E-R  | 27-30 PEFY-P25VMR-E-R   | 22-27-33<br>PEFY-P32VMR-E-R   |  |  |  |  |
|   | rce   |   | 22-2<br>PEFY-P20VMR-E-R<br>1-ph  | 27-30 PEFY-P25VMR-E-R<br>hase 220-230-240V 50Hz / 1-phase 220-230V 601  | 22-27-33<br>PEFY-P32VMR-E-R<br>Hz   |  |  |  |  |
| Power sour  | rce *1  | kW  | 22-2<br>PEFY-P20VMR-E-R<br>1-pt<br>2.2   | 27-30 PEFY-P25VMR-E-R asse 220-230-240V 50Hz / 1-phase 220-230V 60I 2.8   | 22-27-33<br>PEFY-P32VMR-E-R<br>Hz<br>3.6  |  |  |  |  |
| Power sour<br>Cooling cap   | rce<br>pacity *1  | kW<br>BTU/h   | 22-2<br>PEFY-P20VMR-E-R<br>1-ph<br>2.2<br>7,500  | 27-30   PEFY-P25VMR-E-R  ase 220-230-240V 50Hz / 1-phase 220-230V 60H  2.8  9,600   | 22-27-33<br>PEFY-P32VMR-E-R<br>Hz<br>3.6<br>12,300  |  |  |  |  |
| Power sour<br>Cooling cap   | rce<br>pacity *1<br>pacity *1   | kW<br>BTU/h<br>kW   | 22-2<br>PEFY-P20VMR-E-R<br>1-ph<br>2.2<br>7,500<br>2.2   | 27-30   | 22-27-33<br>PEFY-P32VMR-E-R<br>Hz<br>3.6<br>12,300<br>3.7   |  |  |  |  |
| Power sour<br>Cooling cap<br>Cooling cap  | rce<br>pacity *1<br>pacity *1<br>pacity *4<br>pacity *1   | kW<br>BTU/h<br>kW<br>kW   | 22-2<br>PEFY-P20VMR-E-R<br>1-pt<br>2.2<br>7,500<br>2.2<br>2.5  | 27-30   | 22-27-33<br>PEFY-P32VMR-E-R<br>Hz<br>3.6<br>12,300<br>3.7<br>4.0  |  |  |  |  |
| Power sour<br>Cooling cap<br>Cooling cap<br>Heating cap   | rce<br>pacity *1<br>pacity *1<br>pacity *4<br>pacity *1<br>*1   | kW<br>BTU/h<br>kW<br>kW<br>BTU/h  | 22-2<br>PEFY-P20VMR-E-R<br>1-ph<br>2.2<br>7,500<br>2.2<br>2.5<br>8,500   | 27-30   | 22-27-33<br>PEFY-P32VMR-E-R<br>Hz<br>3.6<br>12,300<br>3.7<br>4.0<br>13,600  |  |  |  |  |
| Power sour<br>Cooling cap<br>Cooling cap<br>Heating cap<br>Power  | rce<br>pacity *1<br>pacity *1<br>pacity *4<br>pacity *1<br>r1<br>pacity *1<br>r1<br>pacity *1<br>r1<br>pacity *1<br>r1<br>pacity *1   | kW<br>BTU/h<br>kW<br>kW<br>BTU/h<br>kW  | 22-3<br>PEFY-P20VMR-E-R<br>1-ph<br>2.2<br>7,500<br>2.2<br>2.5<br>8,500<br>0.06 / 0.06  | 27-30   | 22-27-33<br>PEFY-P32VMR-E-R<br>Hz<br>3.6<br>12,300<br>3.7<br>4.0<br>13,600<br>0.07 / 0.08   |  |  |  |  |
| Power sour<br>Cooling cap<br>Cooling cap<br>Heating cap<br>Power  | rce<br>pacity *1<br>pacity *1<br>pacity *4<br>pacity *1<br>*1<br>cooling<br>Heating   | kW<br>BTU/h<br>kW<br>kW<br>BTU/h<br>kW<br>kW  | 22-2<br>PEFY-P20VMR-E-R  1-pt  2.2  7,500  2.2  2.5  8,500  0.06 / 0.06  0.06 / 0.06   | 27-30   | 22-27-33<br>PEFY-P32VMR-E-R<br>Hz<br>3.6<br>12,300<br>3.7<br>4.0<br>13,600<br>0.07 / 0.08<br>0.07 / 0.08  |  |  |  |  |
| Power sour<br>Cooling cap<br>Cooling cap<br>Heating cap<br>Power<br>consumptio  | rce<br>pacity *1<br>pacity *4<br>pacity *4<br>pacity *1<br><u>pacity *4</u><br>n<br><u>Cooling</u><br>Cooling   | kW<br>BTU/h<br>kW<br>kW<br>BTU/h<br>kW<br>kW<br>A   | 22-2<br>PEFY-P20VMR-E-R  1-ph  2.2  7,500  2.2  2.5  8,500  0.06 / 0.06  0.06 / 0.06  0.29 / 0.29  | PEFY-P25VMR-E-R           asse 220-230-240V 50Hz / 1-phase 220-230V 60Hz           2.8           9,600           2.8           10,900           0.06 / 0.06           0.06 / 0.06           0.29 / 0.29   | 22-27-33<br>PEFY-P32VMR-E-R<br>Hz<br>3.6<br>12,300<br>3.7<br>4.0<br>13,600<br>0.07 / 0.08<br>0.07 / 0.08<br>0.07 / 0.08<br>0.34 / 0.38  |  |  |  |  |
| Power sour<br>Cooling cap<br>Cooling cap<br>Heating cap<br>Power<br>consumptio<br>Current   | rce<br>pacity *1<br>pacity *1<br>pacity *1<br>pacity *1<br>macity *1<br>r1<br>Cooling<br>Heating  | kW<br>BTU/h<br>kW<br>kW<br>BTU/h<br>kW<br>kW  | 22-2<br>PEFY-P20VMR-E-R  1-pt  2.2  7,500  2.2  2.5  8,500  0.06 / 0.06  0.06 / 0.06   | PEFY-P25VMR-E-R           asse 220-230-240V 50Hz / 1-phase 220-230V 60H           2.8           9,600           2.8           10,900           0.06 / 0.06           0.29 / 0.29           0.29 / 0.29  | 22-27-33<br>PEFY-P32VMR-E-R<br>Hz<br>3.6<br>12,300<br>3.7<br>4.0<br>13,600<br>0.07 / 0.08<br>0.07 / 0.08  |  |  |  |  |
| Power sour<br>Cooling cap<br>Cooling cap<br>Heating cap<br>Power<br>consumptio<br>Current<br>External fin   | rce<br>pacity *1<br>pacity *1<br>pacity *4<br>pacity *1<br>exercise<br>pacity *1<br>rece<br>*1<br>rece<br>*1<br>rece<br>*1<br>rece<br>*1<br>rece<br>*1<br>Pacity *1<br>rece<br>*1<br>Pacity *1<br>rece<br>*1<br>Pacity *1<br>rece<br>*1<br>Pacity *1<br>rece<br>*1<br>Pacity *1<br>rece<br>*1<br>Pacity *1<br>rece<br>*1<br>Pacity *1<br>Pacity *1<br>rece<br>*1<br>Pacity *1<br>rece<br>*1<br>Pacity *1<br>Pacity *1<br>rece<br>*1<br>Pacity *1<br>rece<br>*1<br>Pacity *1<br>rece<br>*1<br>Pacity *1<br>Pacity *1<br>Pacit          | kW<br>BTU/h<br>kW<br>BTU/h<br>kW<br>BTU/h<br>kW<br>A<br>A<br>A  | 22-2<br>PEFY-P20VMR-E-R  1-ph  2.2  7,500  2.2  2.5  8,500  0.06 / 0.06  0.06 / 0.06  0.29 / 0.29  | PEFY-P25VMR-E-R           asse 220-230-240V 50Hz / 1-phase 220-230V 60H           2.8           9,600           2.8           10,900           0.06 / 0.06           0.06 / 0.06           0.29 / 0.29           0.29 / 0.29           Galvanized   | 22-27-33<br>PEFY-P32VMR-E-R<br>Hz<br>3.6<br>12,300<br>3.7<br>4.0<br>13,600<br>0.07 / 0.08<br>0.07 / 0.08<br>0.07 / 0.08<br>0.34 / 0.38  |  |  |  |  |
| Power sour<br>Cooling cap<br>Cooling cap<br>Heating cap<br>Power<br>consumptio<br>Current<br>External fin<br>Dimension  | rce<br>pacity *1<br>pacity *1<br>pacity *4<br>pacity *1<br>pacity *1<br>rec<br>pacity *1<br>rec<br>rec<br>rec<br>rec<br>rec<br>rec<br>rec<br>rec<br>rec<br>rec  | kW<br>BTU/h<br>kW<br>BTU/h<br>kW<br>kW<br>A<br>A<br>A<br>mm (in.)   | 22-2<br>PEFY-P20VMR-E-R  1-ph  2.2  7,500  2.2  2.5  8,500  0.06 / 0.06  0.06 / 0.06  0.29 / 0.29  | PEFY-P25VMR-E-R           asse 220-230-240V 50Hz / 1-phase 220-230V 60I           2.8           9,600           2.8           3.2           10,900           0.06 / 0.06           0.29 / 0.29           0.29 / 0.29           Galvanized           292 x 640 x 580 (11-1/2 x 25-1/4 x 22-7/8)  | 22-27-33<br>PEFY-P32VMR-E-R<br>Hz<br>3.6<br>12,300<br>3.7<br>4.0<br>13,600<br>0.07 / 0.08<br>0.07 / 0.08<br>0.07 / 0.08<br>0.34 / 0.38  |  |  |  |  |
| Power sour<br>Cooling cap<br>Cooling cap<br>Heating cap<br>Power<br>consumptio<br>Current<br>External fin<br>Dimension<br>H x W x D   | rce<br>pacity *1<br>pacity *1<br>pacity *1<br>pacity *1<br>pacity *1<br>pacity *1<br>Cooling<br>Heating<br>Cooling<br>Heating<br>Rear inlet<br>Bottom inlet   | kW<br>BTU/h<br>kW<br>BTU/h<br>kW<br>BTU/h<br>kW<br>A<br>A<br>A<br>Mm (in.)  | 22-2<br>PEFY-P20VMR-E-R  1-ph  2.2  7,500  2.2  2.5  8,500  0.06 / 0.06  0.06 / 0.06  0.29 / 0.29  | PEFY-P25VMR-E-R           nase 220-230-240V 50Hz / 1-phase 220-230V 60I           2.8           9,600           2.8           3.2           10,900           0.06 / 0.06           0.29 / 0.29           Galvanized           292 x 640 x 580 (11-1/2 x 25-1/4 x 22-7/8)           300 x 640 x 570 (11-7/8 x 25-1/4 x 22-1/2)   | 22-27-33<br>PEFY-P32VMR-E-R<br>Hz<br>3.6<br>12,300<br>3.7<br>4.0<br>13,600<br>0.07 / 0.08<br>0.07 / 0.08<br>0.07 / 0.08<br>0.34 / 0.38  |  |  |  |  |
| Power sour<br>Cooling cap<br>Cooling cap<br>Heating cap<br>Power<br>consumptio<br>Current<br>External fin<br>Dimension<br>H x W x D<br>Net weight   | rce<br>pacity *1<br>pacity *1<br>pacity *1<br>pacity *1<br>pacity *1<br>function<br>function<br>function<br>function<br>function<br>function<br>function<br>function<br>function<br>function<br>function<br>function<br>function<br>function<br>function<br>function<br>function<br>function<br>function<br>function<br>function<br>function<br>function<br>function<br>function<br>function<br>function<br>function<br>function<br>function<br>function<br>function<br>function<br>function<br>function<br>function<br>function<br>function<br>function<br>function<br>function<br>function<br>function<br>function<br>function<br>function<br>function<br>function<br>function<br>function<br>function<br>function<br>function<br>function<br>function<br>function<br>function<br>function<br>function<br>function<br>function<br>function<br>function<br>function<br>function<br>function<br>function<br>function<br>function<br>function<br>function<br>function<br>function<br>function<br>function<br>function<br>function<br>function<br>function<br>function<br>function<br>function<br>function<br>function<br>function<br>function<br>function<br>function<br>function<br>function<br>function<br>function<br>function<br>function<br>function<br>function<br>function<br>function<br>function<br>function<br>function<br>function<br>function<br>function<br>function<br>function<br>function<br>function<br>function<br>function<br>function<br>function<br>function<br>function<br>function<br>function<br>function<br>function<br>function<br>function<br>function<br>function<br>function<br>function<br>function<br>function<br>function<br>function<br>function<br>function<br>function<br>function<br>function<br>function<br>function<br>function<br>function<br>function<br>function<br>function<br>function<br>function<br>function<br>function<br>function<br>function<br>function<br>function<br>function<br>function<br>function<br>function<br>function<br>function<br>function<br>function<br>function<br>function<br>function<br>function<br>function<br>function<br>function<br>function<br>function<br>function<br>function<br>function<br>function<br>function<br>function<br>function<br>function<br>function<br>function<br>function<br>function<br>function<br>function<br>function<br>function<br>function<br>function<br>function<br>function<br>function<br>function<br>function<br>function<br>function<br>function<br>function<br>function<br>function<br>function<br>function<br>function<br>function<br>function<br>function<br>function<br>function<br>function<br>function<br>function<br>function<br>function<br>function<br>function<br>function<br>function<br>function<br>function<br>function<br>function<br>function<br>function<br>function<br>function<br>function<br>function<br>fun | kW<br>BTU/h<br>kW<br>BTU/h<br>kW<br>kW<br>A<br>A<br>A<br>mm (in.)   | 22-2<br>PEFY-P20VMR-E-R  1-ph  2.2  7,500  2.2  2.5  8,500  0.06 / 0.06  0.06 / 0.06  0.29 / 0.29  | PEFY-P25VMR-E-R           asse 220-230-240V 50Hz / 1-phase 220-230V 60I           2.8           9,600           2.8           3.2           10,900           0.06 / 0.06           0.29 / 0.29           Galvanized           292 x 640 x 580 (11-1/2 x 25-1/4 x 22-7/8)           300 x 640 x 570 (11-7/8 x 25-1/4 x 22-1/2)   | 22-27-33<br>PEFY-P32VMR-E-R<br>Hz<br>3.6<br>12,300<br>3.7<br>4.0<br>13,600<br>0.07 / 0.08<br>0.07 / 0.08<br>0.07 / 0.08<br>0.34 / 0.38  |  |  |  |  |
| Power sour<br>Cooling cap<br>Cooling cap<br>Heating cap<br>Power<br>consumptio<br>Current<br>External fin<br>Dimension<br>H × W × D<br>Net weight<br>Heat excha   | rce<br>pacity *1<br>pacity *1<br>pacity *1<br>pacity *1<br>pacity *1<br>macity *1<br>pacity *1<br>macity *1<br>ma   | kW<br>BTU/h<br>kW<br>BTU/h<br>kW<br>BTU/h<br>kW<br>A<br>A<br>A<br>Mm (in.)  | 22-2<br>PEFY-P20VMR-E-R  1-ph  2.2  7,500  2.2  2.5  8,500  0.06 / 0.06  0.06 / 0.06  0.29 / 0.29  | PEFY-P25VMR-E-R           asse 220-230-240V 50Hz / 1-phase 220-230V 60I           2.8           9,600           2.8           10,900           0.06 / 0.06           0.29 / 0.29           0.29 / 0.29           292 x 640 x 550 (11-1/2 x 25-1/4 x 22-7/8)           300 x 640 x 570 (11-7/8 x 25-1/4 x 22-1/2)           18 (40)           Cross fin (Aluminum fin and copper tube)   | 22-27-33<br>PEFY-P32VMR-E-R<br>Hz<br>3.6<br>12,300<br>3.7<br>4.0<br>13,600<br>0.07 / 0.08<br>0.07 / 0.08<br>0.07 / 0.08<br>0.34 / 0.38  |  |  |  |  |
| Power sour<br>Cooling cap<br>Cooling cap<br>Heating cap<br>Power<br>consumptio<br>Current<br>External fin<br>Dimension<br>H x W x D<br>Net weight<br>Heat excha   | rce<br>pacity *1<br>pacity *1<br>pacity *1<br>pacity *1<br>pacity *1<br>function<br>function<br>function<br>function<br>function<br>function<br>function<br>function<br>function<br>function<br>function<br>function<br>function<br>function<br>function<br>function<br>function<br>function<br>function<br>function<br>function<br>function<br>function<br>function<br>function<br>function<br>function<br>function<br>function<br>function<br>function<br>function<br>function<br>function<br>function<br>function<br>function<br>function<br>function<br>function<br>function<br>function<br>function<br>function<br>function<br>function<br>function<br>function<br>function<br>function<br>function<br>function<br>function<br>function<br>function<br>function<br>function<br>function<br>function<br>function<br>function<br>function<br>function<br>function<br>function<br>function<br>function<br>function<br>function<br>function<br>function<br>function<br>function<br>function<br>function<br>function<br>function<br>function<br>function<br>function<br>function<br>function<br>function<br>function<br>function<br>function<br>function<br>function<br>function<br>function<br>function<br>function<br>function<br>function<br>function<br>function<br>function<br>function<br>function<br>function<br>function<br>function<br>function<br>function<br>function<br>function<br>function<br>function<br>function<br>function<br>function<br>function<br>function<br>function<br>function<br>function<br>function<br>function<br>function<br>function<br>function<br>function<br>function<br>function<br>function<br>function<br>function<br>function<br>function<br>function<br>function<br>function<br>function<br>function<br>function<br>function<br>function<br>function<br>function<br>function<br>function<br>function<br>function<br>function<br>function<br>function<br>function<br>function<br>function<br>function<br>function<br>function<br>function<br>function<br>function<br>function<br>function<br>function<br>function<br>function<br>function<br>function<br>function<br>function<br>function<br>function<br>function<br>function<br>function<br>function<br>function<br>function<br>function<br>function<br>function<br>function<br>function<br>function<br>function<br>function<br>function<br>function<br>function<br>function<br>function<br>function<br>function<br>function<br>function<br>function<br>function<br>function<br>function<br>function<br>function<br>function<br>function<br>function<br>function<br>function<br>function<br>function<br>function<br>function<br>function<br>function<br>function<br>function<br>function<br>function<br>function<br>function<br>function<br>function<br>function<br>function<br>function<br>function<br>function<br>function<br>function<br>fun | kW<br>BTU/h<br>kW<br>BTU/h<br>kW<br>KW<br>A<br>A<br>A<br>mm (in.)<br>kg(lbs.)   | 22-2<br>PEFY-P20VMR-E-R<br>1-ph<br>2.2<br>7,500<br>2.2<br>2.5<br>8,500<br>0.06 / 0.06<br>0.06 / 0.06<br>0.29 / 0.29<br>0.29 / 0.29   | PEFY-P25VMR-E-R           asse 220-230-240V 50Hz / 1-phase 220-230V 60H           2.8           9,600           2.8           10,900           0.06 / 0.06           0.06 / 0.06           0.29 / 0.29           Galvanized           292 x 640 x 580 (11-1/2 x 25-1/4 x 22-7/8)           300 x 640 x 570 (11-7/8 x 25-1/4 x 22-1/2)           18 (40)           Cross fin (Aluminum fin and copper tube)           Sirocco fan x 1  | 22-27-33<br>PEFY-P32VMR-E-R<br>Hz<br>3.6<br>12,300<br>3.7<br>4.0<br>13,600<br>0.07 / 0.08<br>0.07 / 0.08<br>0.34 / 0.38<br>0.34 / 0.38  |  |  |  |  |
| Power sour<br>Cooling cap<br>Cooling cap<br>Heating cap<br>Power<br>consumptio<br>Current<br>External fin<br>Dimension<br>H x W x D<br>Net weight<br>Heat excha   | rce<br>pacity *1<br>pacity *1<br>pacity *1<br>pacity *1<br>pacity *1<br>macity *1<br>pacity *1<br>macity *1<br>ma   | kW<br>BTU/h<br>kW<br>BTU/h<br>kW<br>kW<br>kW<br>kW<br>A<br>A<br>A<br>mm (in.)<br>kg(lbs.)<br>m <sup>3</sup> /min  | 22-3 PEFY-P20VMR-E-R  1-ph  2.2  7,500  2.2  2.5  8,500  0.06 / 0.06  0.06 / 0.06  0.29 / 0.29  0.29 / 0.29  0.29 / 0.29  4.8-5  | PEFY-P25VMR-E-R           asse 220-230-240V 50Hz / 1-phase 220-230V 60H           2.8           9,600           2.8           9,600           2.8           0.006 / 0.06           0.06 / 0.06           0.29 / 0.29           Galvanized           292 x 640 x 580 (11-1/2 x 25-1/4 x 22-7/8)           300 x 640 x 570 (11-7/8 x 25-1/4 x 22-7/8)           300 x 640 x 570 (11-7/8 x 25-1/4 x 22-1/2)           18 (40)           Cross fin (Aluminum fin and copper tube)           Sirocco fan x 1           5.8-7.9   | 22-27-33<br>PEFY-P32VMR-E-R<br>Hz<br>3.6<br>12,300<br>3.7<br>4.0<br>13,600<br>0.07 / 0.08<br>0.07 / 0.08<br>0.34 / 0.38<br>0.34 / 0.38<br>4.8-5.8-9.3   |  |  |  |  |
| Power sour<br>Cooling cap<br>Cooling cap<br>Heating cap<br>Power<br>consumptio<br>Current<br>External fin<br>Dimension<br>H × W × D<br>Net weight<br>Heat excha   | rce<br>pacity *1<br>pacity *1<br>pacity *1<br>pacity *1<br>pacity *1<br>pacity *1<br>Free Cooling<br>Heating<br>Cooling<br>Heating<br>Nish<br>Rear inlet<br>Bottom inlet<br>anger<br>pe x Quantity  | kW<br>BTU/h<br>kW<br>BTU/h<br>kW<br>BTU/h<br>kW<br>kW<br>A<br>A<br>A<br>mm (in.)<br>kg(lbs.)<br>m <sup>2</sup> /min<br>L/s  | 22-3 PEFY-P20VMR-E-R  1-ph  2.2  7,500  2.2  2.5  8,500  0.06 / 0.06  0.06 / 0.06  0.29 / 0.29  0.29 / 0.29  0.29 / 0.29  4.8-5 80-9   | PEFY-P25VMR-E-R           asse 220-230-240V 50Hz / 1-phase 220-230V 60I           2.8           9,600           2.8           3.2           10,900           0.06 / 0.06           0.29 / 0.29           0.29 / 0.29           300 x 640 x 570 (11-1/2 x 25-1/4 x 22-1/2)           18 (40)           Cross fin (Aluminum fin and copper tube)           Sirocco fan x 1           5.8-7.9           07-132   | 22-27-33<br>PEFY-P32VMR-E-R<br>Hz<br>3.6<br>12,300<br>3.7<br>4.0<br>13,600<br>0.07 / 0.08<br>0.07 / 0.08<br>0.07 / 0.08<br>0.34 / 0.38<br>0.34 / 0.38<br>4.8-5.8-9.3<br>80-97-155                                     |  |  |  |  |
| Power sour<br>Cooling cap<br>Heating cap<br>Power<br>consumptio<br>Current<br>External fin<br>Dimension<br>H x W x D<br>Net weight<br>Heat excha<br>Typ<br>Fan (Lo  | rce<br>pacity *1<br>pacity *1<br>pacity *1<br>pacity *1<br>pacity *1<br>pacity *1<br>pacity *1<br>Cooling<br>Heating<br>Cooling<br>Heating<br>Rear inlet<br>Bottom inlet<br>anger<br>pe x Quantity<br>flow rate<br>p-Mid-Hi)  | kW<br>BTU/h<br>kW<br>BTU/h<br>kW<br>kW<br>kW<br>kW<br>A<br>A<br>A<br>mm (in.)<br>kg(lbs.)<br>m <sup>3</sup> /min  | 22-:<br>PEFY-P20VMR-E-R  1-ph  2.2  7,500  2.2  2.5  8,500  0.06 / 0.06  0.06 / 0.06  0.29 / 0.29  0.29 / 0.29  0.29 / 0.29  4.8-5 80-9  | PEFY-P25VMR-E-R           asse 220-230-240V 50Hz / 1-phase 220-230V 60H           2.8           9,600           2.8           9,600           2.8           0.006 / 0.06           0.06 / 0.06           0.29 / 0.29           Galvanized           292 x 640 x 580 (11-1/2 x 25-1/4 x 22-7/8)           300 x 640 x 570 (11-7/8 x 25-1/4 x 22-7/8)           300 x 640 x 570 (11-7/8 x 25-1/4 x 22-1/2)           18 (40)           Cross fin (Aluminum fin and copper tube)           Sirocco fan x 1           5.8-7.9   | 22-27-33<br>PEFY-P32VMR-E-R<br>Hz<br>3.6<br>12,300<br>3.7<br>4.0<br>13,600<br>0.07 / 0.08<br>0.07 / 0.08<br>0.34 / 0.38<br>0.34 / 0.38<br>4.8-5.8-9.3   |  |  |  |  |
| Power sour<br>Cooling cap<br>Cooling cap<br>Heating cap<br>Power<br>consumptio<br>Current<br>External fin<br>Dimension<br>H x W x D<br>Net weight<br>Heat excha<br>Fan (Lo<br>Ext   | rce<br>pacity *1<br>pacity *1<br>pacity *1<br>pacity *1<br>pacity *1<br>pacity *1<br>Fill to the test of the test of  | kW<br>BTU/h<br>kW<br>BTU/h<br>kW<br>BTU/h<br>kW<br>kW<br>A<br>A<br>A<br>mm (in.)<br>kg(lbs.)<br>m <sup>2</sup> /min<br>L/s  | 22-:<br>PEFY-P20VMR-E-R  1-ph  2.2  7,500  2.2  2.5  8,500  0.06 / 0.06  0.06 / 0.06  0.29 / 0.29  0.29 / 0.29  0.29 / 0.29  4.8-5 80-9  | PEFY-P25VMR-E-R           asse 220-230-240V 50Hz / 1-phase 220-230V 60I           2.8           9,600           2.8           3.2           10,900           0.06 / 0.06           0.29 / 0.29           0.29 / 0.29           300 x 640 x 570 (11-1/2 x 25-1/4 x 22-1/2)           18 (40)           Cross fin (Aluminum fin and copper tube)           Sirocco fan x 1           5.8-7.9           07-132   | 22-27-33<br>PEFY-P32VMR-E-R<br>Hz<br>3.6<br>12,300<br>3.7<br>4.0<br>13,600<br>0.07 / 0.08<br>0.07 / 0.08<br>0.07 / 0.08<br>0.34 / 0.38<br>0.34 / 0.38<br>4.8-5.8-9.3<br>80-97-155                                     |  |  |  |  |
| Power sour<br>Cooling cap<br>Cooling cap<br>Heating cap<br>Power<br>consumptio<br>Current<br>External fin<br>Dimension<br>H x W x D<br>Net weight<br>Heat excha<br>Fan (Lo<br>Ext<br>pre  | rce<br>pacity *1<br>pacity *1<br>pacity *1<br>pacity *4<br>pacity *1<br>macity *1<br>rece<br>pacity *1<br>macity  | kW<br>BTU/h<br>kW<br>kW<br>BTU/h<br>kW<br>kW<br>A<br>A<br>A<br>mm (in.)<br>kg(lbs.)<br>m <sup>s</sup> /min<br>L/s<br>cfm  | 22-:<br>PEFY-P20VMR-E-R  1-ph  2.2  7,500  2.2  2.5  8,500  0.06 / 0.06  0.06 / 0.06  0.29 / 0.29  0.29 / 0.29  0.29 / 0.29  4.8-5 80-9  | PEFY-P25VMR-E-R           asse 220-230-240V 50Hz / 1-phase 220-230V 60I           2.8           9,600           2.8           9,600           2.8           3.2           10,900           0.06 / 0.06           0.29 / 0.29           Galvanized           292 x 640 x 580 (11-1/2 x 25-1/4 x 22-7/8)           300 x 640 x 570 (11-7/8 x 25-1/4 x 22-7/8)           300 x 640 x 570 (11-7/8 x 25-1/4 x 22-7/8)           300 x 640 x 570 (11-7/8 x 25-1/4 x 22-7/8)           300 x 640 x 570 (11-7/8 x 25-1/4 x 22-7/8)           300 x 640 x 570 (11-7/8 x 25-1/4 x 22-7/8)           300 x 640 x 570 (11-7/8 x 25-1/4 x 22-7/8)           300 x 640 x 570 (11-7/8 x 25-1/4 x 22-7/8)           300 x 640 x 570 (11-7/8 x 25-1/4 x 22-7/8)           300 x 640 x 570 (11-7/8 x 25-1/4 x 22-7/8)           300 x 640 x 570 (11-7/8 x 25-1/4 x 22-7/8)           300 x 640 x 570 (11-7/8 x 25-1/4 x 22-7/8)           300 x 640 x 570 (11-7/8 x 25-1/4 x 22-7/8)           300 x 640 x 570 (11-7/8 x 25-1/4 x 22-7/8)           300 x 640 x 570 (11-7/8 x 25-1/4 x 22-7/8)           300 x 640 x 570 (11-7/8 x 25-1/4 x 22-7/8)           300 x 640 x 570 (11-7/8 x 25-1/4 x 22-7/8)           300 x 640 x 570 (11-7/8 x 25-1/4 x 22-7/8) | 22-27-33<br>PEFY-P32VMR-E-R<br>Hz<br>3.6<br>12,300<br>3.7<br>4.0<br>13,600<br>0.07 / 0.08<br>0.07 / 0.08<br>0.07 / 0.08<br>0.34 / 0.38<br>0.34 / 0.38<br>4.8-5.8-9.3<br>80-97-155                                     |  |  |  |  |
| Power sour<br>Cooling cap<br>Cooling cap<br>Heating cap<br>Power<br>consumptio<br>Current<br>External fin<br>Dimension<br>1 x W x D<br>Vet weight<br>Heat excha<br>Aird<br>Fan (Lot<br>Power<br>Typ<br>Cooling cap<br>Power<br>Cooling cap<br>Cooling cap<br>Cooling cap<br>Power<br>Cooling cap<br>Cooling cap<br>Cooling cap<br>Cooling cap<br>Cooling cap<br>Cooling cap<br>Soor<br>Cooling cap<br>Soor<br>Cooling cap<br>Soor<br>Cooling cap<br>Cooling cap<br>Soor<br>Cooling cap<br>Cooling cap<br>Cooling cap<br>Cooling cap<br>Cooling cap<br>Cooling cap<br>Cooling cap<br>Cooling cap<br>Cooling cooling cooling<br>Cooling cooling cooling<br>Cooling cooling cooling<br>Cooling cooling cooling<br>Cooling cooling  | rce pacity *1 pa  | kW<br>BTU/h<br>kW<br>kW<br>KW<br>KW<br>A<br>A<br>A<br>A<br>mm (in.)<br>kg(lbs.)<br>m <sup>3</sup> /min<br>L/s<br>cfm<br>Pa  | 22-1 PEFY-P20VMR-E-R  1-ph  2.2  7,500  2.2  2.5  8,500  0.06 / 0.06  0.06 / 0.06  0.29 / 0.29  0.29 / 0.29  4.8-5  80-9  170-2  | PEFY-P25VMR-E-R           asse 220-230-240V 50Hz / 1-phase 220-230V 60I           2.8           9,600           2.8           9,600           2.8           10,900           0.06 / 0.06           0.29 / 0.29           Galvanized           292 x 640 x 580 (11-1/2 x 25-1/4 x 22-7/8)           300 x 640 x 570 (11-7/8 x 25-1/4 x 22-1/2)           18 (40)           Cross fin (Aluminum fin and copper tube)           Sirocco fan x 1           5.8-7.9           7-132           5           1-phase induction motor  | 22-27-33<br>PEFY-P32VMR-E-R<br>Hz<br>3.6<br>12,300<br>3.7<br>4.0<br>13,600<br>0.07 / 0.08<br>0.07 / 0.08<br>0.34 / 0.38<br>0.34 / 0.38<br>4.8-5.8-9.3<br>80-97-155<br>170-205-328                                     |  |  |  |  |
| Power sour<br>Cooling cap<br>Cooling cap<br>Heating cap<br>Power<br>consumptio<br>Current<br>External fin<br>Dimension<br>H x W x D<br>Net weight<br>Heat excha<br>Airf<br>Fan (Lo<br>Fan (Lo<br>Power<br>Fan (Lo<br>Power<br>Current<br>External fin<br>Dimension<br>H x W x D<br>Net weight<br>Heat excha<br>Current<br>Fan (Lo<br>Power<br>Current<br>Current<br>External fin<br>Dimension<br>H x W x D<br>Net weight<br>Heat excha<br>Current<br>Current<br>Current<br>Current<br>Current<br>Current<br>Current<br>Current<br>Current<br>Current<br>Current<br>Current<br>Current<br>Current<br>Current<br>Current<br>Current<br>Current<br>Current<br>Current<br>Current<br>Current<br>Current<br>Current<br>Current<br>Current<br>Current<br>Current<br>Current<br>Current<br>Current<br>Current<br>Current<br>Current<br>Current<br>Current<br>Current<br>Current<br>Current<br>Current<br>Current<br>Current<br>Current<br>Current<br>Current<br>Current<br>Current<br>Current<br>Current<br>Current<br>Current<br>Current<br>Current<br>Current<br>Current<br>Current<br>Current<br>Current<br>Current<br>Current<br>Current<br>Current<br>Current<br>Current<br>Current<br>Current<br>Current<br>Current<br>Current<br>Current<br>Current<br>Current<br>Current<br>Current<br>Current<br>Current<br>Current<br>Current<br>Current<br>Current<br>Current<br>Current<br>Current<br>Current<br>Current<br>Current<br>Current<br>Current<br>Current<br>Current<br>Current<br>Current<br>Current<br>Current<br>Current<br>Current<br>Current<br>Current<br>Current<br>Current<br>Current<br>Current<br>Current<br>Current<br>Current<br>Current<br>Current<br>Current<br>Current<br>Current<br>Current<br>Current<br>Current<br>Current<br>Current<br>Current<br>Current<br>Current<br>Current<br>Current<br>Current<br>Current<br>Current<br>Current<br>Current<br>Current<br>Current<br>Current<br>Current<br>Current<br>Current<br>Current<br>Current<br>Current<br>Current<br>Current<br>Current<br>Current<br>Current<br>Current<br>Current<br>Current<br>Current<br>Current<br>Current<br>Current<br>Current<br>Current<br>Current<br>Current<br>Current<br>Current<br>Current<br>Current<br>Current<br>Current<br>Current<br>Current<br>Current<br>Current<br>Current<br>Current<br>Current<br>Current<br>Current<br>Current<br>Current<br>Current<br>Current<br>Current<br>Current<br>Current<br>Current<br>Current<br>Current<br>Current<br>Current<br>Current<br>Current<br>Current<br>Current<br>Current<br>Current<br>Current<br>Current<br>Current<br>Current<br>Current<br>Current<br>Current<br>Current<br>Current<br>Current<br>Current<br>Current<br>Current<br>Current<br>Current<br>Current<br>Current<br>Current<br>Current<br>Current<br>Current<br>Current<br>Current<br>Current<br>Current<br>Current<br>Current<br>Current<br>Current<br>Current<br>Current<br>Current<br>Cu | rce<br>pacity *1<br>pacity *1<br>pacity *1<br>pacity *4<br>pacity *1<br>macity *1<br>rece<br>pacity *1<br>macity  | kW<br>BTU/h<br>kW<br>kW<br>BTU/h<br>kW<br>kW<br>A<br>A<br>A<br>mm (in.)<br>kg(lbs.)<br>m <sup>s</sup> /min<br>L/s<br>cfm  | 22-1 PEFY-P20VMR-E-R  1-ph  2.2  7,500  2.2  2.5  8,500  0.06 / 0.06  0.06 / 0.06  0.29 / 0.29  0.29 / 0.29  4.8-5  80-9  170-2  | 27-30           PEFY-P25VMR-E-R           nase 220-230-240V 50Hz / 1-phase 220-230V 60I           2.8           9,600           2.8           3.2           10,900           0.06 / 0.06           0.29 / 0.29           0.29 / 0.29           300 x 640 x 570 (11-1/2 x 25-1/4 x 22-7/8)           300 x 640 x 570 (11-7/8 x 25-1/4 x 22-1/2)           18 (40)           Cross fin (Aluminum fin and copper tube)           Sirocco fan x 1           5.8-7.9           7-132           205-279           5           1-phase induction motor   | 22-27-33<br>PEFY-P32VMR-E-R<br>Hz<br>3.6<br>12,300<br>3.7<br>4.0<br>13,600<br>0.07 / 0.08<br>0.07 / 0.08<br>0.07 / 0.08<br>0.34 / 0.38<br>0.34 / 0.38<br>4.8-5.8-9.3<br>80-97-155                                     |  |  |  |  |
| Power sour<br>Cooling cap<br>Heating cap<br>Power<br>consumptio<br>Current<br>External fin<br>Dimension<br>H x W x D<br>Net weight<br>Heat excha<br>Airf<br>Fan (Lo<br>Ext<br>pre<br>Motor Out<br>Out<br>Air filter   | rce pacity *1 pa  | kW<br>BTU/h<br>kW<br>BTU/h<br>kW<br>BTU/h<br>kW<br>kW<br>A<br>A<br>A<br>A<br>A<br>A<br>M<br>(bs.)<br>Mm (in.)<br>kg(bs.)<br>Mm (in.)<br>kg(bs.)<br>Mm (in.)<br>kg(bs.)<br>Mm (in.)<br>kg(bs.)<br>KW<br>KW<br>KW<br>KW<br>KW<br>KW<br>KW<br>KW<br>KW<br>KW<br>KW<br>KW<br>KW | 22-1 PEFY-P20VMR-E-R  1-ph  2.2  7,500  2.2  2.5  8,500  0.06 / 0.06  0.06 / 0.06  0.29 / 0.29  0.29 / 0.29  4.8-5  80-9  170-2  | PEFY-P25VMR-E-R           nase 220-230-240V 50Hz / 1-phase 220-230V 60I           2.8           9,600           2.8           3.2           10,900           0.06 / 0.06           0.29 / 0.29           Galvanized           292 x 640 x 580 (11-1/2 x 25-1/4 x 22-7/8)           300 x 640 x 570 (11-7/8 x 25-1/4 x 22-1/2)           18 (40)           Cross fin (Aluminum fin and copper tube)           Sirocco fan x 1           5.8-7.9           5           1-phase induction motor           018           PP Honeycomb fabric (washable)   | 22-27-33<br>PEFY-P32VMR-E-R<br>Hz<br>3.6<br>12,300<br>3.7<br>4.0<br>13,600<br>0.07 / 0.08<br>0.07 / 0.08<br>0.34 / 0.38<br>0.34 / 0.38<br>4.8-5.8-9.3<br>80-97-155<br>170-205-328                                     |  |  |  |  |
| Power sour<br>Cooling cap<br>Cooling cap<br>Heating cap<br>Power<br>consumptio<br>Current<br>External fin<br>Dimension<br>M × W × D<br>Net weight<br>Heat excha<br>Fan (Lo<br>Ext<br>pre<br>Motor Ou<br>Air filter<br>Refrigerant   | rce pacity *1 pa  | kW<br>BTU/h<br>kW<br>BTU/h<br>kW<br>BTU/h<br>kW<br>M<br>M<br>M<br>KW<br>A<br>A<br>A<br>A<br>A<br>A<br>A<br>A<br>A<br>A<br>A<br>A<br>A<br>A<br>A<br>A<br>A<br>A  | 22-1 PEFY-P20VMR-E-R  1-ph  2.2  7,500  2.2  2.5  8,500  0.06 / 0.06  0.06 / 0.06  0.29 / 0.29  0.29 / 0.29  4.8-5  80-9  170-2  | 27-30         PEFY-P25VMR-E-R           nase 220-230-240V 50Hz / 1-phase 220-230V 60I         2.8           2.8         9,600           2.8         3.2           10,900         0.06 / 0.06           0.29 / 0.29         0.29 / 0.29           Galvanized         292 x 640 x 580 (11-1/2 x 25-1/4 x 22-7/8)           300 x 640 x 570 (11-7/8 x 25-1/4 x 22-1/2)         18 (40)           Cross fin (Aluminum fin and copper tube)         Sirocco fan x 1           5.8-7.9         77-132           205-279         5           1-phase induction motor         018           PP Honeycomb fabric (washable)         ø12.7 (ø1/2) Brazed  | 22-27-33<br>PEFY-P32VMR-E-R<br>Hz<br>3.6<br>12,300<br>3.7<br>4.0<br>13,600<br>0.07 / 0.08<br>0.07 / 0.08<br>0.34 / 0.38<br>0.34 / 0.38<br>4.8-5.8-9.3<br>80-97-155<br>170-205-328                                     |  |  |  |  |
| Power sour<br>Cooling cap<br>Cooling cap<br>Heating cap<br>Power<br>consumptio<br>Current<br>External fin<br>Dimension<br>H x W x D<br>Net weight<br>Heat excha<br>Fan (Lo<br>Ext<br>pre<br>Motor Typ<br>Ou<br>Air filter<br>Refrigerant  | rce<br>pacity *1<br>pacity *1<br>pacity *1<br>pacity *1<br>pacity *1<br>pacity *1<br>pacity *1<br>floating<br>Heating<br>Cooling<br>Heating<br>Heating<br>Rear inlet<br>Bottom inlet<br>Bottom inlet<br>Bottom inlet<br>anger<br>pe x Quantity<br>flow rate<br>p-Mid-Hi)<br>ternal static<br>assure *2<br>pe<br>ttput   | kW<br>BTU/h<br>kW<br>BTU/h<br>kW<br>BTU/h<br>kW<br>kW<br>A<br>A<br>A<br>A<br>A<br>A<br>A<br>(k)<br>A<br>A<br>A<br>A<br>A<br>A<br>A<br>A<br>A<br>A<br>A<br>A<br>A<br>A<br>A<br>A<br>A<br>A<br>A  | 22-1 PEFY-P20VMR-E-R  1-ph  2.2  7,500  2.2  2.5  8,500  0.06 / 0.06  0.06 / 0.06  0.29 / 0.29  0.29 / 0.29  4.8-5  80-9  170-2  | 27-30         PEFY-P25VMR-E-R           nase 220-230-240V 50Hz / 1-phase 220-230V 60I         2.8           2.8         9,600           2.8         3.2           10,900         0.06 / 0.06           0.29 / 0.29         0.29 / 0.29           Galvanized         292 x 640 x 580 (11-1/2 x 25-1/4 x 22-7/8)           300 x 640 x 570 (11-7/8 x 25-1/4 x 22-7/8)         300 x 640 x 570 (11-7/8 x 25-1/4 x 22-7/8)           300 x 640 x 570 (11-7/8 x 25-1/4 x 22-7/8)         18 (40)           Cross fin (Aluminum fin and copper tube)         Sirocco fan x 1           5.8-7.9         17-132           105-279         5           1-phase induction motor         018           PP Honeycomb fabric (washable)         \$\alpha 12.7 (\alpha 1/2) Brazed           \$\alpha 12.7 (\alpha 1/2) Brazed         \$\alpha 6.35 (\alpha 1/4) Brazed  | 22-27-33<br>PEFY-P32VMR-E-R<br>Hz<br>3.6<br>12,300<br>3.7<br>4.0<br>13,600<br>0.07 / 0.08<br>0.07 / 0.08<br>0.34 / 0.38<br>0.34 / 0.38<br>4.8-5.8-9.3<br>80-97-155<br>170-205-328                                     |  |  |  |  |
| Power sour<br>Cooling cap<br>Cooling cap<br>Heating cap<br>Power<br>consumptio<br>Current<br>External fin<br>Dimension<br>H x W x D<br>Net weight<br>Heat excha<br>Fan (Lo<br>Ext<br>pre<br>Motor Uyp<br>Out<br>Air filter<br>Refrigerant<br>pipe diamet  | aning     240V       rce     *1       pacity     *1       mager     Cooling       Heating     Heating       heat     Inlet       Bottom inlet     Bottom inlet       anger     pe       pe x Quantity     flow rate       ->Mid-Hi)     ternal static       sssure     *2       pe     titer       Liquid     pipe diameter       pipediameter     Cool /   | kW<br>BTU/h<br>kW<br>BTU/h<br>kW<br>BTU/h<br>kW<br>M<br>M<br>M<br>KW<br>A<br>A<br>A<br>A<br>A<br>A<br>A<br>A<br>A<br>A<br>A<br>A<br>A<br>A<br>A<br>A<br>A<br>A  | 22 PEFY-P20VMR-E-R  1-ph  2.2  7,500  2.2  2.5  8,500  0.06 / 0.06  0.06 / 0.06  0.29 / 0.29  0.29 / 0.29  0.29 / 0.29  170-2  0.2  0.2  0.2  0.2  0.2  0.2  0.2   | 27-30           PEFY-P25VMR-E-R           asse 220-230-240V 50Hz / 1-phase 220-230V 60I           2.8           9,600           2.8           3.2           10,900           0.06 / 0.06           0.29 / 0.29           0.29 / 0.29           2292 x 640 x 580 (11-1/2 x 25-1/4 x 22-7/8)           300 x 640 x 570 (11-7/8 x 25-1/4 x 22-7/8)           300 x 640 x 570 (11-7/8 x 25-1/4 x 22-1/2)           18 (40)           Cross fin (Aluminum fin and copper tube)           Sirocco fan x 1           5.8-7.9           77-132           205-279           5           1-phase induction motor           018           PP Honeycomb fabric (washable)           ø 6.35 (ø 1/4) Brazed           ø 6.35 (ø 1/4) Brazed           0.D. 26(1)  | 22-27-33<br>PEFY-P32VMR-E-R<br>Hz<br>3.6<br>12,300<br>3.7<br>4.0<br>13,600<br>0.07 / 0.08<br>0.07 / 0.08<br>0.07 / 0.08<br>0.34 / 0.38<br>0.34 / 0.38<br>4.8-5.8-9.3<br>80-97-155<br>170-205-328<br>0.023             |  |  |  |  |
| Power sour<br>Cooling cap<br>Cooling cap<br>Heating cap<br>Power<br>consumptio<br>Current<br>External fin<br>Dimension<br>H x W x D<br>Net weight<br>Heat excha<br>Fan (Lo<br>Ext<br>pre<br>Motor Typ<br>Ou<br>Air filter<br>Refrigerant<br>pipe diamel<br>Field drain p<br>Sound press   | Tree  | kW<br>BTU/h<br>kW<br>kW<br>KW<br>KW<br>A<br>A<br>A<br>A<br>Mm (in.)<br>mm (in.)<br>kg(lbs.)<br>Mm (in.)<br>Cfm<br>Pa<br>Pa<br>kW<br>kW<br>kW  | 22-:<br>PEFY-P20VMR-E-R  1-ph  2.2  7,500  2.2  2.5  8,500  0.06 / 0.06  0.09 / 0.29  0.29 / 0.29  0.29 / 0.29  170-2  0.2  0.2  0.2  0.2  0.2  0.2  0.2   | PEFY-P25VMR-E-R           asse 220-230-240V 50Hz / 1-phase 220-230V 60I           2.8           9,600           2.8           9,600           2.8           10,900           0.06 / 0.06           0.29 / 0.29           0.29 / 0.29           292 x 640 x 580 (11-1/2 x 25-1/4 x 22-7/8)           300 x 640 x 570 (11-7/8 x 25-1/4 x 22-7/8)           300 x 640 x 570 (11-7/8 x 25-1/4 x 22-1/2)           18 (40)           Cross fin (Aluminum fin and copper tube)           Sirocco fan x 1           5.8-7.9           17-132           205-279           5           1-phase induction motor           018           PP Honeycomb fabric (washable)           ø12.7 (ø1/2) Brazed           ø6.35 (ø1/4) Brazed           0.D. 26(1)           25-30   | 22-27-33<br>PEFY-P32VMR-E-R<br>Hz<br>3.6<br>12,300<br>3.7<br>4.0<br>13,600<br>0.07 / 0.08<br>0.07 / 0.08<br>0.07 / 0.08<br>0.34 / 0.38<br>0.34 / 0.38<br>4.8-5.8-9.3<br>80-97-155<br>170-205-328<br>0.023<br>20-25-33 |  |  |  |  |
| Power sour<br>Cooling cap<br>Cooling cap<br>Heating cap<br>Power<br>consumptio<br>Current<br>External fin<br>Dimension<br>H x W x D<br>Net weight<br>Heat excha<br>Fan (Lo<br>Ext<br>pre<br>Motor Typ<br>Out<br>Air filter<br>Refrigerant<br>pipe diamet<br>Field drain p   | Tree  | kW<br>BTU/h<br>kW<br>BTU/h<br>kW<br>BTU/h<br>kW<br>kW<br>A<br>A<br>A<br>A<br>A<br>A<br>A<br>(k)<br>A<br>A<br>A<br>A<br>A<br>A<br>A<br>A<br>A<br>A<br>A<br>A<br>A<br>A<br>A<br>A<br>A<br>A<br>A  | 22-:<br>PEFY-P20VMR-E-R  1-ph  2.2  7,500  2.2  2.5  8,500  0.06 / 0.06  0.06 / 0.06  0.29 / 0.29  0.29 / 0.29  0.29 / 0.29  170-2  20-2  20-2  20-2  20-2  20-2  20-2  20-2  21-2  20-2 20-2 2 | 27-30           PEFY-P25VMR-E-R           asse 220-230-240V 50Hz / 1-phase 220-230V 60I           2.8           9,600           2.8           3.2           10,900           0.06 / 0.06           0.29 / 0.29           0.29 / 0.29           2292 x 640 x 580 (11-1/2 x 25-1/4 x 22-7/8)           300 x 640 x 570 (11-7/8 x 25-1/4 x 22-7/8)           300 x 640 x 570 (11-7/8 x 25-1/4 x 22-1/2)           18 (40)           Cross fin (Aluminum fin and copper tube)           Sirocco fan x 1           5.8-7.9           77-132           205-279           5           1-phase induction motor           018           PP Honeycomb fabric (washable)           ø 6.35 (ø 1/4) Brazed           ø 6.35 (ø 1/4) Brazed           0.D. 26(1)  | 22-27-33<br>PEFY-P32VMR-E-R<br>Hz<br>3.6<br>12,300<br>3.7<br>4.0<br>13,600<br>0.07 / 0.08<br>0.07 / 0.08<br>0.07 / 0.08<br>0.34 / 0.38<br>0.34 / 0.38<br>4.8-5.8-9.3<br>80-97-155<br>170-205-328<br>0.023             |  |  |  |  |

#### Notes:

- \*1 Cooling/Heating capacity indicates the maximum value at operation under the following condition. Cooling : Indoor 27°C(81°F)DB/19°C(66°F)WB,Outdoor 35°C(95°F)DB Heating : Indoor 20°C(68°F)DB,Outdoor 7°C(45°F)DB/6°C(43°F)WB
- \*2 The external static pressure is set to 5Pa (at 220V, 230V, 240V).
- \*3 Measured in anechoic room. Sound pressure levels of the unit with a rear air inlet. (Sound pressure levels are higher than the unit with a bottom air inlet.)
- \*4 Reference data under condition of Indoor 27°C(81°F)DB/19.5°C(67°F)WB, Outdoor 35°C(95°F)DB



## **INDOOR UNIT** Ceiling concealed type

## PEFY-P VMS1(L)-E

| Static Pressure           | Height              |           | Width | Width | Width   |
|---------------------------|---------------------|-----------|-------|-------|---------|
| Static Pressure<br>5~50Pa | 200mm<br>7-28/32in. | Low Noise | 790mm | 990mm | 1,190mm |

The ultra thin unit of 200mm offers increased flexibility, and is particularly suitable for places where low noise operation is desired from a slim line body.



#### Changeable static pressure

The unit is made suitable for a variety of applications with its four static pressure settings of 5, 15, 35, 50Pa.

#### Changeable airflow rate

Low, middle, and high fan speed settings deliver precise comfort.

#### Choice for drain pump

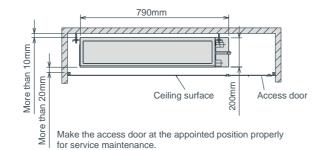
Drain pump is an optional part for the VMS1L, and a standard for VMS1.

\*For places where low noise operation is especially required (i.e. Hotels), VMS1L (without drain pump) is recommended.

**PP Honeycomb fabric** Washable PP Honeycomb fabric filter as standard

Ultra low height unit with 200mm (7-28/32in.) high Ultra-narrow width of 790mm (P15-P32 models) [990mm for P40,50 models / 1190mm for P63 models]

Can be installed easily in tight spaces, such as ceiling cavities or drop-ceilings.



#### Reduced noise thanks to the use of newly designed centrifugal fan and coil

Sound pressure level table (Standard static pressure) at 15Pa

|                |              |      |     |     |     |     |     |     | dB(A) |
|----------------|--------------|------|-----|-----|-----|-----|-----|-----|-------|
|                | Capa         | city | P15 | P20 | P25 | P32 | P40 | P50 | P63   |
| Sound pressure |              | High | 28  | 29  | 30  | 32  | 33  | 35  | 36    |
| Level          | Fan<br>Speed | Mid  | 24  | 25  | 26  | 27  | 30  | 32  | 33    |
|                | opood        | Low  | 22  | 23  | 24  | 24  | 28  | 30  | 30    |

## ► Specifications

|   |           |              |            | PEFY-P15VMS1(L)-E                         | PEFY-P20VMS1(L)-E              | PEFY-P25VMS1(L)-E | PEFY-P32VMS1(L)-E  | PEFY-P40VMS1(L)-E        | PEFY-P50VMS1(L)-E | PEFY-P63VMS1(L)-E    |  |  |  |
|---|-----------|--------------|------------|---|--------------------------------|-------------------|--------------------|--------------------------|-------------------|----------------------|--|--|--|
| Power                                     | SOURCE    | 9            |            |   |                                | 1-phase 220-24    | IOV 50Hz / 1-phase | 220-240V 60Hz            |                   |                      |  |  |  |
| Casling                                   |           |              | kW         | 1.7                                       | 2.2                            | 2.8               | 3.6                | 4.5                      | 5.6               | 7.1                  |  |  |  |
|   |           | BTU/h        | 5,800      | 7,500                                     | 9,600                          | 12,300            | 15,400             | 19,100                   | 24,200            |                      |  |  |  |
| Cooling                                   | g capao   | city *4      | kW         | 1.7                                       | 2.2                            | 2.8               | 3.7                | 4.6                      | 5.7               | 7.2                  |  |  |  |
| Hoating                                   |           | *1           | kW         | 1.9                                       | 2.5                            | 3.2               | 4.0                | 5.0                      | 6.3               | 8.0                  |  |  |  |
|   |           | *1           | BTU/h      | 6,500                                     | 8,500                          | 10,900            | 13,600             | 17,100                   | 21,500            | 27,300               |  |  |  |
| Power                                     | *3        | Cooling      | kW         | 0.05 [0.03]                               | 0.05 [0.03]                    | 0.06 [0.04]       | 0.07 [0.05]        | 0.07 [0.05]              | 0.09 [0.07]       | 0.09 [0.07]          |  |  |  |
| consum                                    | nption    | Heating      | kW         | 0.03 [0.03]                               | 0.03 [0.03]                    | 0.04 [0.04]       | 0.05 [0.05]        | 0.05 [0.05]              | 0.07 [0.07]       | 0.07 [0.07]          |  |  |  |
| Current                                   | t *3      | Cooling      | А          | 0.42 [0.31]                               | 0.47 [0.36]                    | 0.50 [0.39]       | 0.50 [0.39]        | 0.56 [0.45]              | 0.67 [0.56]       | 0.72 [0.61]          |  |  |  |
| Current                                   |           | Heating      | А          | 0.31 [0.31]                               | 0.36 [0.36]                    | 0.39 [0.39]       | 0.39 [0.39]        | 0.45 [0.45]              | 0.56 [0.56]       | 0.61 [0.61]          |  |  |  |
| Externa                                   | al finisl | h            |            |   |                                |                   | Galvanized         |                          |                   |                      |  |  |  |
| Dimen                                     | sion      |              | mm         |   | 200 x 79                       | 90 x 700          |                    | 200 x 9                  | 90 x 700          | 200 x 1,190 x 700    |  |  |  |
| HxW                                       | хD        |              | In.        |   | 7-7/8 x 31-1                   | /8 x 27-9/16      | 7-7/8 x 39         | 7-7/8 x 46-7/8 x 27-9/16 |                   |                      |  |  |  |
| Net we                                    | eight     | *3           | kg(lbs.)   |   | 19(42) [18(40)]                |                   | 24(53)             | [23(51)]                 | 28(62) [27(60)]   |                      |  |  |  |
| Heat e                                    | xchang    | er           |            | Cross fin (Aluminium fin and copper tube) |                                |                   |                    |                          |                   |                      |  |  |  |
|   | Туре х    | Quantity     |            |   | Sirocco                        | fan x 2           |                    | Sirocco                  | fan x 3           | Sirocco fan x 4      |  |  |  |
|   | Airflov   | , rato       | m³/min     | 5-6-7                                     | 5.5-6.5-8                      | 5.5-7-9           | 6-8-10             | 8-9.5-11                 | 9.5-11-13         | 12-14-16.5           |  |  |  |
| Fan                                       | (Lo-M     |              | L/s        | 83-100-117                                | 91-108-133                     | 91-117-150        | 100-133-167        | 133-158-183              | 158-183-217       | 200-233-275          |  |  |  |
|   | (LO-IVI   | iu-ni)       | cfm        | 176-212-247                               | 194-229-282                    | 194-247-317       | 212-282-353        | 282-335-388              | 335-388-459       | 424-494-583          |  |  |  |
|   | External  | static press | Pa         |   |                                |                   | 5-15-35-50         |                          |                   |                      |  |  |  |
| Motor                                     | type      |              |            |   |                                |                   | DC motor           |                          |                   |                      |  |  |  |
| WOLOI                                     | output    | t l          | kW         | 0.096                                     |                                |                   |                    |                          |                   |                      |  |  |  |
| Air filter                                | r         |              |            |   | PP Honeycomb fabric (washable) |                   |                    |                          |                   |                      |  |  |  |
| Refrigerant                               | Gas       |              | mm(in.)    |   |                                | Q                 | ø12.7 (ø1/2) Braze | b                        |                   | ø15.88 (ø5/8) Brazed |  |  |  |
| pipe diameter                             | Liquid    |              | mm(in.)    |   |                                | ¢                 | ø6.35 (ø1/4) Braze | b                        |                   | ø9.52 (ø3/8) Brazed  |  |  |  |
| Field dra                                 | ain pipe  | diameter     | mm(in.)    |   |                                |                   | O.D. 32 (1-1/4)    |                          | -                 |                      |  |  |  |
| Sound p                                   | oressure  | e level      |            |   |                                |                   |                    |                          |                   |                      |  |  |  |
| (Lo-Mid-Hi)<br>(mesured in anechoic room) |           | hoic room)   | dB <a></a> | 22-24-28                                  | 23-25-29                       | 24-26-30          | 24-27-32           | 28-30-33                 | 30-32-35          | 30-33-36             |  |  |  |

#### Notes:

- \*1 Cooling/Heating capacity indicates the maximum value at operation under the following condition. Cooling : Indoor : 27°CD.B./19°CW.B. (81°FD.B. / 66°FW.B.) Outdoor : 35°CD.B. (95°FD.B.) Heating : Indoor : 20°CD.B. (68°FD.B.) Outdoor : 7°CD.B. / 6°CW.B. (45°FD.B. / 43°FW.B.) Pipe length : 7.5m (24-9/16ft) Height difference : 0m (0ft)
- \*2 The external static pressure is set to 15 Pa at factory shipment.
- \*3 [ ] is in case of PEFY-P15-63VMS1L-E
- \*4 Reference data under condition of Indoor 27°C(81°F)DB/19.5°C(67°F)WB, Outdoor 35°C(95°F)DB



## INDOOR UNIT Ceiling Concealed Type

## PEFY-P VMA(L)-E PEFY-P VMA2-E<sup>\*1</sup>



Middle Static Pressure 35~150Pa Height 250mm

With precise control of indoor temperature while operating with optimum energy usage, it offers a high-energy saving efficiency.



**Compact Indoor Units** 

For all models, unit height are unified to 250mm. Compared to the previous model, the height size is reduced, allowing installation in tight spaces, such as ceiling cavities or drop-ceilings.



| 20 25 32 | 40 50    | 63 71 | 80                   | 100 125              | 140                        |  |  |
|----------|----------|-------|----------------------|----------------------|----------------------------|--|--|
|          |          | 250   |                      |                      |                            |  |  |
| 700      | 900      | 1,100 |                      | 1,400                | 1,600                      |  |  |
| 732      |          |       |                      |                      |                            |  |  |
|          | 20 25 32 |       | 250<br>700 900 1,100 | 250<br>700 900 1,100 | 250<br>700 900 1,100 1,400 |  |  |

#### External static pressure

Five-stage external static pressure settings provide flexibility for duct extension, branching and air outlet configuration and are adjustable to meet different application conditions. Setting ranges to a maximum of 150Pa.

#### External static pressure setting

| Series        | 20 | 25 | 32 | 40 | 50    | 63    | 71    | 80 | 100 | 125 | 140 |
|---------------|----|----|----|----|-------|-------|-------|----|-----|-----|-----|
| PEFY-P VMA(L) |    |    |    | 35 | /50/7 | 0/100 | )/150 | Ра |     |     |     |

Note: \*1 Cooling-only

Indoor unit

| Air Inlet      |                         |  |  |  |  |  |  |
|----------------|-------------------------|--|--|--|--|--|--|
| (1) Rear inlet | (2) Bottom inlet        |  |  |  |  |  |  |
| Air inlet      | Air inlet<br>Air outlet |  |  |  |  |  |  |

\* The units with bottom inlet make more noise than those with rear inlet. It is recommended that the rear inlet be selected when installing the units in the rooms that should be quiet such as bedrooms.

#### **Drain Pump Option**

The line-up consists of two types, models with or without a built-in drain pump allowing more freedom in piping layout design.



#### PEFY-P VMA-E Drain pump built-in



PEFY-P VMAL-E No Drain pump

\* Units with a "L" at the end of the model name are not equipped with a drain pump.

#### Analogue input

Analogue input allows unit to control the fan speed setting in conjunction with damper condition.

#### IT terminal

IT terminal is available. For details, contact your local distributor.

## ► Specifications

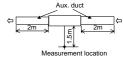
| Power  |  |   |  | PEFY-P20VMA(L)-E   | PEFY-P25VMA(L)-E  | PEFY-P32VMA(L)-E   | PEFY-P40VMA(L)-E   | PEFY-P50VMA(L)-E   | PEFY-P63VMA(L)   |  |  |  |
|--|--|---|--|--|---|--|--|--|--|--|--|--|
|  | source   | *1  |  |  |   | 1-phase 220-230  | 0-240V 50 / 60Hz   |  |  |  |  |  |
| Cooling  | capacit  | ity *1  | kW   | 2.2  | 2.8   | 3.6  | 4.5  | 5.6  | 7.1  |  |  |  |
| Nomin  | al)  | *2  | BTU/h  | 7,500  | 9,600   | 12,300   | 15.400   | 19,100   | 24,200   |  |  |  |
| Cooling  | capacit  |   | kW   | 2.2  | 2.8   | 3.7  | 4.6  | 5.7  | 7.2  |  |  |  |
|  | capaci   |   | kW   | 2.5  | 3.2   | 4.0  | 5.0  | 6.3  | 8.0  |  |  |  |
| Nomin  |  | *3  | BTU/h  | 8.500  | 10,900  | 13,600   | 17,100   | 21,500   | 27,300   |  |  |  |
| -  | . ,  | -   |  |  |   |  |  |  | ,  |  |  |  |
| Power  |  | ooling *3   | kW   | 0.06 [0.04]  | 0.06 [0.04]   | 0.07 [0.05]  | 0.09 [0.07]  | 0.11 [0.09]  | 0.12 [0.10]  |  |  |  |
| onsum  |  | eating *3   | kW   | 0.04   | 0.04  | 0.05   | 0.07   | 0.09   | 0.10   |  |  |  |
| Current  | Co   | ooling *3   | A  | 0.53 [0.42]  | 0.53 [0.42]   | 0.55 [0.44]  | 0.64 [0.53]  | 0.74 [0.63]  | 1.01 [0.90]  |  |  |  |
| Junen  | He   | eating  | A  | 0.42   | 0.42  | 0.44   | 0.53   | 0.63   | 0.90   |  |  |  |
| Externa  | al finish  |   |  |  |   | Galvanized   | d steel plate  |  |  |  |  |  |
|  |  |   | mm   | 250 x 700 x 732  | 250 x 700 x 732   | 250 x 700 x 732  | 250 x 900 x 732  | 250 x 900 x 732  | 250 x 1,100 x 7  |  |  |  |
| Dimens   | sion H x   | xWxD  | in.  |  |   |  |  | 9-7/8 x 35-7/16 x 28-7/8   |  |  |  |  |
| let wei  | iaht   |   | kg(lbs)  | 23 (51) [22 (49)]  |   | 23 (51) [22 (49)]  | 26 (58) [25 (56)]  | 26 (58) [25 (56)]  | 32 (71) [31(69)  |  |  |  |
|  | <u> </u>   |   | kg(ibs)  | 23 (51) [22 (49)]  | 23 (51) [22 (49)]   |  |  | 20 (38) [23 (36)]  | 32 (71) [31(09)  |  |  |  |
| leat ex  | change   |   |  |  |   | ,  | fin and copper tube)   |  |  |  |  |  |
|  | Type x   | Quantity  |  |  |   | Sirocco fan x 1  |  |  | Sirocco fan x 2  |  |  |  |
|  | Airflow  | , roto  | m³/min   | 6.0 - 7.5 - 8.5  | 6.0 - 7.5 - 8.5   | 7.5 - 9.0 - 10.5   | 10.0 - 12.0 - 14.0   | 12.0 - 14.5 - 17.0   | 13.5 - 16.0 - 19   |  |  |  |
|  |  |   | L/s  | 100 - 125 - 142  | 100 - 125 - 142   | 125 - 150 - 175  | 167 - 200 - 233  | 200 - 242 - 283  | 225 - 267 - 31   |  |  |  |
| an   |  | Mid-High)   | cfm  | 212 - 265 - 300  | 212 - 265 - 300   | 265 - 318 - 371  | 353 - 424 - 494  | 424 - 512 - 600  | 477 - 565 - 67   |  |  |  |
|  | Extern   | al static   |  |  |   |  |  |  |  |  |  |  |
|  | pressu   |   | Pa   | <20> - <35> - 50 - <70> - <100> - <150>  | <20> - <35> - 50 - <70> - <100> - <150>   | <20> - <35> - 50 - <70> - <100> - <150>  | <20> - <35> - 50 - <70> - <100> - <150>  | <20> - <35> - 50 - <70> - <100> - <150>  | <20> - <35> - 50 - <70> - <100>  |  |  |  |
|  |  | <del>.</del>  |  |  |   | <b>D</b> 2   |  |  |  |  |  |  |
| /lotor   | Туре   |   |  |  |   | -  | notor  |  |  |  |  |  |
|  | Output   | t   | kW   | 0.085  | 0.085   | 0.085  | 0.085  | 0.085  | 0.121  |  |  |  |
| ir filte   | r  |   |  |  |   | PP honeyc  | comb fabric.   |  |  |  |  |  |
| efrigera   | ant Liq  | iquid (R410A)   | mm(in.)  | 6.35 (1/4) Brazed  | 6.35 (1/4) Brazed   | 6.35 (1/4) Brazed  | 6.35 (1/4) Brazed  | 6.35 (1/4) Brazed  | 9.52 (3/8) Braze   |  |  |  |
| ipe diar   | neter Ga   | as (R410A)  | mm(in.)  | 12.7 (1/2) Brazed  | 12.7 (1/2) Brazed   | 12.7 (1/2) Brazed  | 12.7 (1/2) Brazed  | 12.7 (1/2) Brazed  | 15.88 (5/8) Braz   |  |  |  |
|  |  | diameter  | mm(in.)  | O.D.32 (1-1/4)   | O.D.32(1-1/4)   | O.D.32(1-1/4)  | O.D.32 (1-1/4)   | O.D.32 (1-1/4)   | O.D.32 (1-1/4  |  |  |  |
|  |  |   | ( )  | anechoic room)   | 0.0.32(1-1/4)   | 0.0.32(1-1/4)  | 0.0.32 (1-1/4)   | 0.0.32 (1-1/4)   | 0.0.32 (1-1/4  |  |  |  |
|  | •  | `,  |  | ,  |   |  |  |  |  |  |  |  |
| Low-M  | lid-High)  | i) *3 *5  | dB(A)  | 26-28-29   | 26-28-29  | 28-30-34   | 28-30-34   | 28-32-35   | 29-32-36   |  |  |  |
|  |  | *3 *6   | dB(A)  | 23-25-26   | 23-25-26  | 23-26-29   | 23-27-30   | 25-29-32   | 25-29-33   |  |  |  |
|  |  |   |  |  |   |  |  |  |  |  |  |  |
|  |  |   |  | PEFY-P71VMA(L)-E   | PEFY-P71VMA(L)-E   PEFY-P80VMA(L)-E   PEFY-P100VMA(L)-E   PEFY-P125VMA(L)-E   PEFY-P140VMA(L)-E   PEFY-P20VMA2-E  |  |  |  |  |  |  |  |
|  |  |   |  |  |   |  |  |  |  |  |  |  |
|  | source   | *1  |  |  |   | 1-phase 220-230  | 0-240V 50 / 60Hz   |  | 1  |  |  |  |
|  | source<br>capacit  |   | kW   | 8.0  | 9.0   | 1-phase 220-230<br>11.2  |  | 16.0   | 2.2  |  |  |  |
| Cooling  | capacit  |   | kW<br>BTU/h  | 8.0<br>27,300  | 9.0<br>30,700   |  | 0-240V 50 / 60Hz   | 16.0<br>54,600   | 2.2<br>7,500   |  |  |  |
| Cooling<br>Nomin   | ) capacit<br>al)   | ity *1<br>*2  |  | 27,300   |   | 11.2<br>38,200   | 0-240V 50 / 60Hz<br>14.0   | 54,600   |  |  |  |  |
| Cooling<br>Nomin<br>Cooling  | ) capacit<br>al)<br>) capacit  | ity *1<br>*2<br>ity *7  | BTU/h<br>kW  | 27,300<br>8.1  | 30,700<br>9.2   | 11.2<br>38,200<br>11.4   | 0-240V 50 / 60Hz<br>14.0<br>47,800<br>14.2   | 54,600<br>16.3   | 7,500  |  |  |  |
| Cooling<br>Nomin<br>Cooling<br>Teating   | ) capaci<br>al)<br>) capaci<br>) capaci  | ity *1<br>*2<br>ity *7<br>ity *2  | BTU/h<br>kW<br>kW  | 27,300<br>8.1<br>9.0   | 30,700<br>9.2<br>10.0   | 11.2<br>38,200<br>11.4<br>12.5   | -240V 50 / 60Hz<br>14.0<br>47,800<br>14.2<br>16.0  | 54,600<br>16.3<br>18.0   | 7,500<br>—<br>—  |  |  |  |
| Cooling<br>Nomin<br>Cooling<br>Heating<br>Nomin  | ) capacit<br>al)<br>) capacit<br>) capacit<br>al)  | ity *1<br>*2<br>ity *7<br>ity *2<br>*3  | BTU/h<br>kW<br>kW<br>BTU/h   | 27,300<br>8.1<br>9.0<br>30,700   | 30,700<br>9.2<br>10.0<br>34,100   | 11.2<br>38,200<br>11.4<br>12.5<br>42,700   | -240V 50 / 60Hz<br>14.0<br>47,800<br>14.2<br>16.0<br>54,600  | 54,600<br>16.3<br>18.0<br>61,400   | 7,500<br>—<br>—<br>—   |  |  |  |
| Cooling<br>Nomin<br>Cooling<br>Heating<br>Nomin<br>Power   | g capacit<br>al)<br>g capacit<br>g capacit<br>al)<br>Co  | ity *1<br>*2<br>ity *7<br>ity *2<br>*3<br>ooling *3   | BTU/h<br>kW<br>kW<br>BTU/h<br>kW   | 27,300<br>8.1<br>9.0<br>30,700<br>0.14 [0.12]  | 30,700<br>9.2<br>10.0<br>34,100<br>0.14 [0.12]  | 11.2<br>38,200<br>11.4<br>12.5<br>42,700<br>0.24 [0.22]  | -240V 50 / 60Hz<br>14.0<br>47,800<br>14.2<br>16.0<br>54,600<br>0.34 [0.32]   | 54,600<br>16.3<br>18.0<br>61,400<br>0.36 [0.34]  | 7,500<br>—<br>—  |  |  |  |
| Cooling<br>Nomin<br>Cooling<br>leating<br>Nomin<br>Power   | g capacit<br>al)<br>g capacit<br>g capacit<br>al)<br>Co  | ity *1<br>*2<br>ity *7<br>ity *2<br>*3<br>ooling *3<br>leating *3   | BTU/h<br>kW<br>kW<br>BTU/h<br>kW<br>kW   | 27,300<br>8.1<br>9.0<br>30,700   | 30,700<br>9.2<br>10.0<br>34,100<br>0.14 [0.12]<br>0.12  | 11.2<br>38,200<br>11.4<br>12.5<br>42,700   | -240V 50 / 60Hz<br>14.0<br>47,800<br>14.2<br>16.0<br>54,600<br>0.34 [0.32]<br>0.32   | 54,600<br>16.3<br>18.0<br>61,400   | 7,500<br>—<br>—<br>—   |  |  |  |
| Cooling<br>Nomin<br>Cooling<br>Ieating<br>Nomin<br>Power<br>onsum  | g capacit<br>al)<br>g capacit<br>g capacit<br>al)<br><u>Co</u><br>ption He   | ity *1<br>*2<br>ity *7<br>ity *2<br>*3<br>ooling *3   | BTU/h<br>kW<br>kW<br>BTU/h<br>kW   | 27,300<br>8.1<br>9.0<br>30,700<br>0.14 [0.12]  | 30,700<br>9.2<br>10.0<br>34,100<br>0.14 [0.12]  | 11.2<br>38,200<br>11.4<br>12.5<br>42,700<br>0.24 [0.22]  | -240V 50 / 60Hz<br>14.0<br>47,800<br>14.2<br>16.0<br>54,600<br>0.34 [0.32]   | 54,600<br>16.3<br>18.0<br>61,400<br>0.36 [0.34]  | 7,500<br>—<br>—<br>—   |  |  |  |
| Cooling<br>Nomin<br>Cooling<br>leating<br>Nomin<br>lower<br>onsum  | g capacit<br>al)<br>g capacit<br>g capacit<br>al)<br>Co<br>ption He<br>Co  | ity *1<br>*2<br>ity *7<br>ity *2<br>*3<br>ooling *3<br>leating *3   | BTU/h<br>kW<br>kW<br>BTU/h<br>kW<br>kW   | 27,300<br>8.1<br>9.0<br>30,700<br>0.14 [0.12]<br>0.12  | 30,700<br>9.2<br>10.0<br>34,100<br>0.14 [0.12]<br>0.12  | 11.2<br>38,200<br>11.4<br>12.5<br>42,700<br>0.24 [0.22]<br>0.22  | -240V 50 / 60Hz<br>14.0<br>47,800<br>14.2<br>16.0<br>54,600<br>0.34 [0.32]<br>0.32   | 54,600<br>16.3<br>18.0<br>61,400<br>0.36 [0.34]<br>0.34  | 7,500<br>—<br>—<br>—<br>0.110<br>—   |  |  |  |
| Cooling<br>Nomin<br>Cooling<br>Heating<br>Nomin<br>Power<br>onsum<br>Current   | g capacit<br>al)<br>g capacit<br>g capacit<br>al)<br>Co<br>ption He<br>Co  | ity *1<br>*2<br>ity *7<br>ity *2<br>*3<br>ooling *3<br>eating *3<br>eating *3   | BTU/h<br>kW<br>kW<br>BTU/h<br>kW<br>kW<br>A  | 27,300<br>8.1<br>9.0<br>30,700<br>0.14 [0.12]<br>0.12<br>1.15 [1.04]   | 30,700<br>9.2<br>10.0<br>34,100<br>0.14 [0.12]<br>0.12<br>1.15 [1.04]   | 11.2<br>38,200<br>11.4<br>12.5<br>42,700<br>0.24 [0.22]<br>0.22<br>1.47 [1.36]<br>1.36   | -240V 50 / 60Hz<br>14.0<br>47,800<br>14.2<br>16.0<br>54,600<br>0.34 [0.32]<br>0.32<br>2.05 [1.94]  | 54,600<br>16.3<br>18.0<br>61,400<br>0.36 [0.34]<br>0.34<br>2.21 [2.10]   | 7,500<br>—<br>—<br>—<br>0.110<br>—   |  |  |  |
| Cooling<br>Nomin<br>Cooling<br>Jeating<br>Nomin<br>Power<br>onsum<br>Current   | g capacit<br>al)<br>g capacit<br>g capacit<br>al)<br>t<br>ption He<br>t<br>Co<br>He<br>al finish   | ity *1<br>*2<br>ity *7<br>ity *2<br>*3<br>ooling *3<br>eating *3<br>eating *3   | BTU/h<br>kW<br>kW<br>BTU/h<br>kW<br>kW<br>A<br>A<br>A  | 27,300<br>8.1<br>9.0<br>30,700<br>0.14 [0.12]<br>0.12<br>1.15 [1.04]<br>1.04   | 30,700<br>9.2<br>10.0<br>34,100<br>0.14 [0.12]<br>0.12<br>1.15 [1.04]<br>1.04   | 11.2<br>38,200<br>11.4<br>12.5<br>42,700<br>0.24 [0.22]<br>0.22<br>1.47 [1.36]<br>1.36<br>Galvanized   | -240V 50 / 60Hz<br>14.0<br>47,800<br>14.2<br>16.0<br>54,600<br>0.34 [0.32]<br>0.32<br>2.05 [1.94]<br>1.94<br>steel plate   | 54,600<br>16.3<br>18.0<br>61,400<br>0.36 [0.34]<br>0.34<br>2.21 [2.10]<br>2.10   | 7,500<br><br><br>0.110<br><br>0.90<br>   |  |  |  |
| Cooling<br>Nomin<br>Cooling<br>Jeating<br>Nomin<br>Power<br>onsum<br>Current   | g capacit<br>al)<br>g capacit<br>g capacit<br>al)<br>t<br>ption He<br>t<br>Co<br>He<br>al finish   | ity *1<br>*2<br>ity *7<br>ity *2<br>*3<br>ooling *3<br>eating *3<br>eating *3   | BTU/h<br>kW<br>kW<br>BTU/h<br>kW<br>kW<br>A<br>A<br>A<br>mm  | 27,300<br>8.1<br>9.0<br>30,700<br>0.14 [0.12]<br>0.12<br>1.15 [1.04]<br>1.04<br>250 x 1,100 x 732  | 30,700<br>9.2<br>10.0<br>34,100<br>0.14 [0.12]<br>0.12<br>1.15 [1.04]<br>1.04<br>250 x 1,100 x 732  | 11.2<br>38,200<br>11.4<br>12.5<br>42,700<br>0.24 [0.22]<br>0.22<br>1.47 [1.36]<br>1.36<br>Galvanized<br>250 x 1,400 x 732  | -240V 50 / 60Hz<br>14.0<br>47,800<br>14.2<br>16.0<br>54,600<br>0.34 [0.32]<br>0.32<br>2.05 [1.94]<br>1.94<br>isteel plate<br>250 x 1,400 x 732   | 54,600<br>16.3<br>18.0<br>61,400<br>0.36 [0.34]<br>0.34<br>2.21 [2.10]<br>2.10<br>250 x 1,600 x 732  | 7,500<br>—<br>—<br>0.110<br>—<br>0.90<br>—<br>250 x 900 x 73   |  |  |  |
| Cooling<br>Nomin<br>Cooling<br>leating<br>Nomin<br>ower<br>onsum<br>Current<br>Current   | g capacit<br>al)<br>g capacit<br>g capacit<br>g capacit<br>al)<br><u>capacit</u><br>al)<br><u>capacit</u><br><u>capacit</u><br>al)<br><u>capacit</u><br><u>capacit</u><br>al)<br><u>capacit</u>  | ity *1<br>*2<br>ity *7<br>ity *2<br>*3<br>ooling *3<br>eating *3<br>eating *3   | BTU/h<br>kW<br>kW<br>BTU/h<br>kW<br>A<br>A<br>A<br>M<br>mm<br>in.  | 27,300<br>8.1<br>9.0<br>30,700<br>0.14 [0.12]<br>0.12<br>1.15 [1.04]<br>1.04<br>250 x 1,100 x 732<br>9-7/8 x 43-5/16 x 28-7/8  | 30,700<br>9.2<br>10.0<br>34,100<br>0.14 [0.12]<br>0.12<br>1.15 [1.04]<br>1.04<br>250 x 1,100 x 732<br>9-7/8 x 43-5/16 x 28-7/8  | 11.2<br>38,200<br>11.4<br>12.5<br>42,700<br>0.24 [0.22]<br>0.22<br>1.47 [1.36]<br>1.36<br>Galvanized<br>250 x 1,400 x 732<br>9-7/8 x 55-1/8 x 28-7/8   | -240V 50 / 60Hz<br>14.0<br>47,800<br>14.2<br>16.0<br>54,600<br>0.34 [0.32]<br>0.32<br>2.05 [1.94]<br>1.94<br>i steel plate<br>250 x 1,400 x 732<br>9-7/8 x 55-1/8 x 28-7/8   | 54,600<br>16.3<br>18.0<br>61,400<br>0.36 [0.34]<br>0.34<br>2.21 [2.10]<br>2.10<br>250 x 1,600 x 732<br>9-7/8 x 63 x 28-7/8   | 7,500<br>—<br>—<br>0.110<br>—<br>0.90<br>—<br>250 x 900 x 73<br>9-7/8 x 35-7/16 x 28   |  |  |  |
| ooling<br>Nomin<br>cooling<br>leating<br>Nomin<br>ower<br>onsum<br>current<br>xterna   | g capacit<br>al)<br>g capacit<br>g capacit<br>al)<br>capacit<br>al)<br><u>Cc</u><br>t<br>He<br>t<br>Cc<br>t<br>He<br>al finish<br>sion H x   | ity *1<br>*2<br>ity *7<br>ity *2<br>*3<br>ooling *3<br>eating *3<br>eating *3<br>eating<br>x W x D  | BTU/h<br>kW<br>kW<br>BTU/h<br>kW<br>kW<br>A<br>A<br>A<br>mm  | 27,300<br>8.1<br>9.0<br>30,700<br>0.14 [0.12]<br>0.12<br>1.15 [1.04]<br>1.04<br>250 x 1,100 x 732  | 30,700<br>9.2<br>10.0<br>34,100<br>0.14 [0.12]<br>0.12<br>1.15 [1.04]<br>1.04<br>250 x 1,100 x 732  | 11.2<br>38,200<br>11.4<br>12.5<br>42,700<br>0.24 [0.22]<br>0.22<br>1.47 [1.36]<br>1.36<br>Galvanized<br>250 x 1,400 x 732<br>9-7/8 x 55-1/8 x 28-7/8<br>42 (93) [41 (91)]  | -240V 50 / 60Hz<br>14.0<br>47,800<br>14.2<br>16.0<br>54,600<br>0.34 [0.32]<br>0.32<br>2.05 [1.94]<br>1.94<br>isteel plate<br>250 x 1,400 x 732<br>9-7/8 x 55-1/8 x 28-7/8<br>42 (93) [41 (91)]   | 54,600<br>16.3<br>18.0<br>61,400<br>0.36 [0.34]<br>0.34<br>2.21 [2.10]<br>2.10<br>250 x 1,600 x 732  | 7,500<br>—<br>—<br>0.110<br>—<br>0.90<br>—<br>250 x 900 x 73   |  |  |  |
| ooling<br>Nomin<br>cooling<br>leating<br>Nomin<br>ower<br>onsum<br>current<br>xterna   | g capacit<br>al)<br>g capacit<br>g capacit<br>al)<br>ption He<br>t Cc<br>t He<br>al finish<br>sion H x<br>ight<br>cchange  | ity *1<br>*2<br>ity *7<br>ity *2<br>*3<br>coling *3<br>eating *3<br>cooling *3<br>eating<br>*3<br>eating<br>*3<br>eating<br>*3<br>eating  | BTU/h<br>kW<br>kW<br>BTU/h<br>kW<br>A<br>A<br>A<br>M<br>mm<br>in.  | 27,300<br>8.1<br>9.0<br>30,700<br>0.14 [0.12]<br>0.12<br>1.15 [1.04]<br>1.04<br>250 x 1,100 x 732<br>9-7/8 x 43-5/16 x 28-7/8  | 30,700<br>9.2<br>10.0<br>34,100<br>0.14 [0.12]<br>0.12<br>1.15 [1.04]<br>1.04<br>250 x 1,100 x 732<br>9-7/8 x 43-5/16 x 28-7/8  | 11.2<br>38,200<br>11.4<br>12.5<br>42,700<br>0.24 [0.22]<br>0.22<br>1.47 [1.36]<br>1.36<br>Galvanized<br>250 x 1,400 x 732<br>9-7/8 x 28-7/8<br>42 (93) [41 (91)]<br>Cross fin (Aluminum  | -240V 50 / 60Hz<br>14.0<br>47,800<br>14.2<br>16.0<br>54,600<br>0.34 [0.32]<br>0.32<br>2.05 [1.94]<br>1.94<br>i steel plate<br>250 x 1,400 x 732<br>9-7/8 x 55-1/8 x 28-7/8   | 54,600<br>16.3<br>18.0<br>61,400<br>0.36 [0.34]<br>0.34<br>2.21 [2.10]<br>2.10<br>250 x 1,600 x 732<br>9-7/8 x 63 x 28-7/8   | 7,500<br>—<br>—<br>0.110<br>—<br>0.90<br>—<br>250 x 900 x 73<br>9-7/8 x 35-7/16 x 21<br>27(60)   |  |  |  |
| ooling<br>Nomin<br>ooling<br>leating<br>Nomin<br>ower<br>onsum<br>urrent<br>xterna<br>imens<br>let we  | g capacit<br>al)<br>g capacit<br>g capacit<br>al)<br>ption He<br>t Cc<br>t He<br>al finish<br>sion H x<br>ight<br>cchange  | ity *1<br>*2<br>ity *7<br>ity *2<br>*3<br>ooling *3<br>eating *3<br>eating *3<br>eating<br>x W x D  | BTU/h<br>kW<br>kW<br>BTU/h<br>kW<br>A<br>A<br>A<br>M<br>mm<br>in.  | 27,300<br>8.1<br>9.0<br>30,700<br>0.14 [0.12]<br>0.12<br>1.15 [1.04]<br>1.04<br>250 x 1,100 x 732<br>9-7/8 x 43-5/16 x 28-7/8  | 30,700<br>9.2<br>10.0<br>34,100<br>0.14 [0.12]<br>0.12<br>1.15 [1.04]<br>1.04<br>250 x 1,100 x 732<br>9-7/8 x 43-5/16 x 28-7/8  | 11.2<br>38,200<br>11.4<br>12.5<br>42,700<br>0.24 [0.22]<br>0.22<br>1.47 [1.36]<br>1.36<br>Galvanized<br>250 x 1,400 x 732<br>9-7/8 x 55-1/8 x 28-7/8<br>42 (93) [41 (91)]  | -240V 50 / 60Hz<br>14.0<br>47,800<br>14.2<br>16.0<br>54,600<br>0.34 [0.32]<br>0.32<br>2.05 [1.94]<br>1.94<br>isteel plate<br>250 x 1,400 x 732<br>9-7/8 x 55-1/8 x 28-7/8<br>42 (93) [41 (91)]   | 54,600<br>16.3<br>18.0<br>61,400<br>0.36 [0.34]<br>0.34<br>2.21 [2.10]<br>2.10<br>250 x 1,600 x 732<br>9-7/8 x 63 x 28-7/8   | 7,500<br>—<br>—<br>0.110<br>—<br>0.90<br>—<br>250 x 900 x 73<br>9-7/8 x 35-7/16 x 21<br>27(60)   |  |  |  |
| ooling<br>Nomin<br>cooling<br>leating<br>Nomin<br>ower<br>onsum<br>current<br>xterna   | capacit<br>al)<br>capacit<br>al)<br>capacit<br>al)<br>capacit<br>al)<br><u>Caption He</u><br><u>Caption He</u><br>difinish<br>sion H x<br>capacit<br>He<br>al finish   | ity *1<br>*2<br>ity *7<br>ity *7<br>ity *2<br>*3<br>ooling *3<br>eating *3<br>eating *3<br>eating *3<br>eating *3<br>eating *3<br>eating *3<br>eating *3<br>eating *3<br>eating *3  | BTU/h<br>kW<br>kW<br>BTU/h<br>kW<br>A<br>A<br>A<br>M<br>mm<br>in.  | 27,300<br>8.1<br>9.0<br>30,700<br>0.14 [0.12]<br>0.12<br>1.15 [1.04]<br>1.04<br>250 x 1,100 x 732<br>9-7/8 x 43-5/16 x 28-7/8  | 30,700<br>9.2<br>10.0<br>34,100<br>0.14 [0.12]<br>0.12<br>1.15 [1.04]<br>1.04<br>250 x 1,100 x 732<br>9-7/8 x 43-5/16 x 28-7/8  | 11.2<br>38,200<br>11.4<br>12.5<br>42,700<br>0.24 [0.22]<br>0.22<br>1.47 [1.36]<br>1.36<br>Galvanized<br>250 x 1,400 x 732<br>9-7/8 x 28-7/8<br>42 (93) [41 (91)]<br>Cross fin (Aluminum  | -240V 50 / 60Hz<br>14.0<br>47,800<br>14.2<br>16.0<br>54,600<br>0.34 [0.32]<br>0.32<br>2.05 [1.94]<br>1.94<br>isteel plate<br>250 x 1,400 x 732<br>9-7/8 x 55-1/8 x 28-7/8<br>42 (93) [41 (91)]   | 54,600<br>16.3<br>18.0<br>61,400<br>0.36 [0.34]<br>0.34<br>2.21 [2.10]<br>2.10<br>250 x 1,600 x 732<br>9-7/8 x 63 x 28-7/8   | 7,500<br><br>0.110<br><br>0.90<br><br>250 x 900 x 73<br>9-7/8 x 35-7/16 x 21<br>27(60)<br>Sirocco fan x  |  |  |  |
| cooling<br>Nomin<br>cooling<br>leating<br>Nomin<br>ower<br>consum<br>current<br>xterna<br>imens<br>imens<br>let wei<br>leat ex   | capacit<br>al)<br>capacit<br>capacit<br>capacit<br>al)<br>capacit<br>al)<br>capacit<br>al)<br>capacit<br>capacit<br>al)<br>capacit<br>definish<br>con H x<br>ight<br>con H x<br>ight<br>con A x | ity *1<br>*2<br>ity *7<br>ity *7<br>ity *2<br>*3<br>cooling *3<br>eating *3<br>e | BTU/h<br>kW<br>kW<br>BTU/h<br>kW<br>kW<br>A<br>A<br>A<br>M<br>mm<br>in.<br>kg(lbs)<br>m³/min   | 27,300<br>8.1<br>9.0<br>30,700<br>0.14 [0.12]<br>0.12<br>1.15 [1.04]<br>1.04<br>250 x 1,100 x 732<br>9-7/8 x 43-5/16 x 28-7/8<br>32 (71) [31 (69)]<br>14.5 - 18.0 - 21.0   | 30,700<br>9.2<br>10.0<br>34,100<br>0.14 [0.12]<br>0.12<br>1.15 [1.04]<br>1.04<br>250 x 1,100 x 732<br>9-7/8 x 43-5/16 x 28-7/8<br>32 (71) [31 (69)]<br>14.5 - 18.0 - 21.0   | 11.2<br>38,200<br>11.4<br>12.5<br>42,700<br>0.24 [0.22]<br>0.22<br>1.47 [1.36]<br>1.36<br>Galvanized<br>250 x 1,400 x 732<br>9-7/8 x 55-1/8 x 28-7/8<br>42 (93) [41 (91)]<br>Cross fin (Aluminum<br>Sirocco fan x 2<br>23.0 - 28.0 - 33.0  | -240V 50 / 60Hz<br>14.0<br>47,800<br>14.2<br>16.0<br>54,600<br>0.34 [0.32]<br>0.32<br>2.05 [1.94]<br>1.94<br>I steel plate<br>250 x 1,400 x 732<br>9-7/8 x 55-1/8 x 28-7/8<br>42 (93) [41 (91)]<br>fin and copper tube)<br>28.0 - 34.0 - 40.0  | 54,600<br>16.3<br>18.0<br>61,400<br>0.36 [0.34]<br>0.34<br>2.21 [2.10]<br>2.10<br>250 x 1,600 x 732<br>9-7/8 x 63 x 28-7/8<br>46 (102) [45 (100)]<br>29.5 - 35.5 - 42.0  | 7,500<br><br>0.110<br><br>0.90<br><br>250 × 900 × 7:<br>9-7/8 × 35-7/16 × 2:<br>27(60)<br>Sirocco fan x<br>12.0 - 14.5 - 17  |  |  |  |
| ooling<br>Nomin<br>ooling<br>leating<br>Nomin<br>ower<br>onsum<br>urrent<br>xterna<br>xterna<br>imens<br>leat ex   | capacit<br>al)<br>capacit<br>capacit<br>capacit<br>al)<br>capacit<br>al)<br>capacit<br>al)<br>capacit<br>capacit<br>al)<br>capacit<br>definish<br>con H x<br>ight<br>con H x<br>ight<br>con A x | ity *1<br>*2<br>ity *7<br>ity *7<br>ity *2<br>*3<br>ooling *3<br>eating *3<br>eating *3<br>eating *3<br>eating *3<br>eating *3<br>eating *3<br>eating *3<br>eating *3<br>eating *3  | BTU/h<br>kW<br>kW<br>BTU/h<br>kW<br>kW<br>A<br>A<br>A<br>A<br>M<br>mm<br>in.<br>kg(lbs)<br>m³/min<br>L/s   | 27,300<br>8.1<br>9.0<br>30,700<br>0.14 [0.12]<br>0.12<br>1.15 [1.04]<br>1.04<br>250 x 1,100 x 732<br>9-7/8 x 43-5/16 x 28-7/8<br>32 (71) [31 (69)]<br>14.5 - 18.0 - 21.0<br>242 - 300 - 350  | 30,700<br>9.2<br>10.0<br>34,100<br>0.14 [0.12]<br>0.12<br>1.04<br>1.04<br>250 x 1,100 x 732<br>9-7/8 x 43-5/16 x 28-7/8<br>32 (71) [31 (69)]<br>14.5 - 18.0 - 21.0<br>242 - 300 - 350   | 11.2<br>38,200<br>11.4<br>12.5<br>42,700<br>0.24 [0.22]<br>0.22<br>1.47 [1.36]<br>1.36<br>Galvanized<br>250 x 1,400 x 732<br>9-7/8 x 55-1/8 x 28-7/8<br>42 (93) [41 (91)]<br>Cross fin (Aluminum<br>Sirocco fan x 2<br>23.0 - 28.0 - 33.0<br>383 - 467 - 550   | -240V 50 / 60Hz<br>14.0<br>47,800<br>14.2<br>16.0<br>54,600<br>0.34 [0.32]<br>0.32<br>2.05 [1.94]<br>1.94<br>1 steel plate<br>250 x 1,400 x 732<br>9-7/8 x 55-1/8 x 28-7/8<br>42 (93) [41 (91)]<br>fin and copper tube)<br>28.0 - 34.0 - 40.0<br>467 - 567 - 667   | 54,600<br>16.3<br>18.0<br>61,400<br>0.36 [0.34]<br>0.34<br>2.21 [2.10]<br>2.10<br>250 x 1,600 x 732<br>9-7/8 x 63 x 28-7/8<br>46 (102) [45 (100)]<br>29.5 - 35.5 - 42.0<br>492 - 592 - 700   | 7,500<br><br>0.110<br><br>0.90<br><br>250 × 900 × 7:<br>9-7/8 × 35-7/16 × 2<br>27(60)<br>Sirocco fan x<br>12.0 - 14.5 - 17<br>200 - 242 - 28   |  |  |  |
| cooling<br>Nomin<br>cooling<br>leating<br>Nomin<br>ower<br>consum<br>current<br>xterna<br>imens<br>imens<br>let wei<br>leat ex   | capacit<br>al)<br>capacit<br>capacit<br>capacit<br>capacit<br>al)<br><u>caption He</u><br><u>cc</u><br>t <u>Cc</u><br>t <u>He</u><br>al finish<br>sion H x<br>ight<br>cchange<br>Type x<br>Airflow<br>(Low-N   | ity *1<br>*2<br>ity *7<br>ity *7<br>ity *2<br>*3<br>ooling *3<br>eating *3<br>ea | BTU/h<br>kW<br>kW<br>BTU/h<br>kW<br>kW<br>A<br>A<br>A<br>M<br>mm<br>in.<br>kg(lbs)<br>m³/min   | 27,300<br>8.1<br>9.0<br>30,700<br>0.14 [0.12]<br>0.12<br>1.15 [1.04]<br>1.04<br>250 x 1,100 x 732<br>9-7/8 x 43-5/16 x 28-7/8<br>32 (71) [31 (69)]<br>14.5 - 18.0 - 21.0   | 30,700<br>9.2<br>10.0<br>34,100<br>0.14 [0.12]<br>0.12<br>1.15 [1.04]<br>1.04<br>250 x 1,100 x 732<br>9-7/8 x 43-5/16 x 28-7/8<br>32 (71) [31 (69)]<br>14.5 - 18.0 - 21.0   | 11.2<br>38,200<br>11.4<br>12.5<br>42,700<br>0.24 [0.22]<br>0.22<br>1.47 [1.36]<br>1.36<br>Galvanized<br>250 x 1,400 x 732<br>9-7/8 x 55-1/8 x 28-7/8<br>42 (93) [41 (91)]<br>Cross fin (Aluminum<br>Sirocco fan x 2<br>23.0 - 28.0 - 33.0  | -240V 50 / 60Hz<br>14.0<br>47,800<br>14.2<br>16.0<br>54,600<br>0.34 [0.32]<br>0.32<br>2.05 [1.94]<br>1.94<br>I steel plate<br>250 x 1,400 x 732<br>9-7/8 x 55-1/8 x 28-7/8<br>42 (93) [41 (91)]<br>fin and copper tube)<br>28.0 - 34.0 - 40.0  | 54,600<br>16.3<br>18.0<br>61,400<br>0.36 [0.34]<br>0.34<br>2.21 [2.10]<br>2.10<br>250 x 1,600 x 732<br>9-7/8 x 63 x 28-7/8<br>46 (102) [45 (100)]<br>29.5 - 35.5 - 42.0  | 7,500<br><br><br>0.110<br><br>0.90<br><br>250 x 900 x 73<br>9-7/8 x 35-7/16 x 21<br>27(60)<br>Sirocco fan x<br>12.0 - 14.5 - 17<br>200 - 242 - 28  |  |  |  |
| cooling<br>Nomin<br>cooling<br>leating<br>Nomin<br>ower<br>consum<br>current<br>xterna<br>imens<br>imens<br>let wei<br>leat ex   | capacit<br>al)<br>capacit<br>capacit<br>capacit<br>capacit<br>al)<br><u>capacit</u><br>capacit<br>capacit<br>capacit<br>capacit<br>capacit<br>capacit<br>capacit<br>capacit<br>capacit<br>capacit<br>capacit<br>capacit<br>capacit<br>capacit<br>capacit<br>capacit<br>capacit<br>capacit<br>capacit<br>capacit<br>capacit<br>capacit<br>capacit<br>capacit<br>capacit<br>capacit<br>capacit<br>capacit<br>capacit<br>capacit<br>capacit<br>capacit<br>capacit<br>capacit<br>capacit<br>capacit<br>capacit<br>capacit<br>capacit<br>capacit<br>capacit<br>capacit<br>capacit<br>capacit<br>capacit<br>capacit<br>capacit<br>capacit<br>capacit<br>capacit<br>capacit<br>capacit<br>capacit<br>capacit<br>capacit<br>capacit<br>capacit<br>capacit<br>capacit<br>capacit<br>capacit<br>capacit<br>capacit<br>capacit<br>capacit<br>capacit<br>capacit<br>capacit<br>capacit<br>capacit<br>capacit<br>capacit<br>capacit<br>capacit<br>capacit<br>capacit<br>capacit<br>capacit<br>capacit<br>capacit<br>capacit<br>capacit<br>capacit<br>capacit<br>capacit<br>capacit<br>capacit<br>capacit<br>capacit<br>capacit<br>capacit<br>capacit<br>capacit<br>capacit<br>capacit<br>capacit<br>capacit<br>capacit<br>capacit<br>capacit<br>capacit<br>capacit<br>capacit<br>capacit<br>capacit<br>capacit<br>capacit<br>capacit<br>capacit<br>capacit<br>capacit<br>capacit<br>capacit<br>capacit<br>capacit<br>capacit<br>capacit<br>capacit<br>capacit<br>capacit<br>capacit<br>capacit<br>capacit<br>capacit<br>capacit<br>capacit<br>capacit<br>capacit<br>capacit<br>capacit<br>capacit<br>capacit<br>capacit<br>capacit<br>capacit<br>capacit<br>capacit<br>capacit<br>capacit<br>capacit<br>capacit<br>capacit<br>capacit<br>capacit<br>capacit<br>capacit<br>capacit<br>capacit<br>capacit<br>capacit<br>capacit<br>capacit<br>capacit<br>capacit<br>capacit<br>capacit<br>capacit<br>capacit<br>capacit<br>capacit<br>capacit<br>capacit<br>capacit<br>capacit<br>capacit<br>capacit<br>capacit<br>capacit<br>capacit<br>capacit<br>capacit<br>capacit<br>capacit<br>capacit<br>capacit<br>capacit<br>capacit<br>capacit<br>capacit<br>capacit<br>capacit<br>capacit<br>capacit<br>capacit<br>capacit<br>capacit<br>capacit<br>capacit<br>capacit<br>capacit<br>capacit<br>capacit<br>capacit<br>capacit<br>capacit<br>capacit<br>capacit<br>capacit<br>capacit<br>capacit<br>capacit<br>capacit<br>capacit<br>capacit<br>capacit<br>capacit<br>capacit<br>capacit<br>capacit<br>capacit<br>capacit<br>capacit<br>capacit<br>capacit<br>capacit<br>capacit<br>capacit<br>capacit<br>capacit<br>capacit<br>capacit<br>capacit<br>capacit<br>capacit<br>capacit<br>capacit<br>capacit<br>capacit<br>capacit<br>capacit<br>capacit<br>capacit<br>capacit<br>capacit<br>capacit<br>capacit<br>capacit<br>capacit<br>capacit<br>capacit<br>capacit<br>capacit<br>capacit<br>capacit<br>capacit<br>capacit<br>capacit<br>capacit<br>capa  | ity *1<br>*2<br>ity *7<br>ity *7<br>a<br>ooling *3<br>eating *3     | BTU/h<br>kW<br>kW<br>BTU/h<br>kW<br>kW<br>A<br>A<br>A<br>A<br>M<br>mm<br>in.<br>kg(lbs)<br>m³/min<br>L/s   | 27,300<br>8.1<br>9.0<br>30,700<br>0.14 [0.12]<br>0.12<br>1.15 [1.04]<br>1.04<br>250 x 1,100 x 732<br>9-7/8 x 43-5/16 x 28-7/8<br>32 (71) [31 (69)]<br>14.5 - 18.0 - 21.0<br>242 - 300 - 350<br>512 - 636 - 742   | 30,700<br>9.2<br>10.0<br>34,100<br>0.14 [0.12]<br>0.12<br>1.15 [1.04]<br>1.04<br>250 x 1,100 x 732<br>9-7/8 x 43-5/16 x 28-7/8<br>32 (71) [31 (69)]<br>14.5 - 18.0 - 21.0<br>242 - 300 - 350<br>512 - 636 - 742   | 11.2<br>38,200<br>11.4<br>12.5<br>42,700<br>0.24 [0.22]<br>0.22<br>1.47 [1.36]<br>1.36<br>Galvanizec<br>250 x 1,400 x 732<br>9-7/8 x 55-1/8 x 28-7/8<br>42 (93) [41 (91)]<br>Cross fin (Aluminum<br>Sirocco fan x 2<br>23.0 - 28.0 - 33.0<br>383 - 467 - 550<br>812 - 989 - 1,165  | -240V 50 / 60Hz<br>14.0<br>47,800<br>14.2<br>16.0<br>54,600<br>0.34 [0.32]<br>0.32<br>2.05 [1.94]<br>1.94<br>1.94<br>1 steel plate<br>250 x 1,400 x 732<br>9-7/8 x 55-1/8 x 28-7/8<br>42 (93) [41 (91]]<br>fin and copper tube)<br>28.0 - 34.0 - 40.0<br>467 - 567 - 667<br>989 - 1,201 - 1,412  | 54,600<br>16.3<br>18.0<br>61,400<br>0.36 [0.34]<br>0.34<br>2.21 [2.10]<br>2.10<br>250 x 1,600 x 732<br>9-7/8 x 63 x 28-7/8<br>46 (102) [45 (100)]<br>29.5 - 35.5 - 42.0<br>492 - 592 - 700   | 7,500<br>  |  |  |  |
| cooling<br>Nomin<br>cooling<br>leating<br>Nomin<br>ower<br>consum<br>current<br>xterna<br>imens<br>imens<br>let wei<br>leat ex   | capacit<br>al)<br>capacit<br>capacit<br>capacit<br>capacit<br>al)<br>capacit<br>capacit<br>capacit<br>capacit<br>capacit<br>capacit<br>capacit<br>capacit<br>capacit<br>capacit<br>capacit<br>capacit<br>capacit<br>capacit<br>capacit<br>capacit<br>capacit<br>capacit<br>capacit<br>capacit<br>capacit<br>capacit<br>capacit<br>capacit<br>capacit<br>capacit<br>capacit<br>capacit<br>capacit<br>capacit<br>capacit<br>capacit<br>capacit<br>capacit<br>capacit<br>capacit<br>capacit<br>capacit<br>capacit<br>capacit<br>capacit<br>capacit<br>capacit<br>capacit<br>capacit<br>capacit<br>capacit<br>capacit<br>capacit<br>capacit<br>capacit<br>capacit<br>capacit<br>capacit<br>capacit<br>capacit<br>capacit<br>capacit<br>capacit<br>capacit<br>capacit<br>capacit<br>capacit<br>capacit<br>capacit<br>capacit<br>capacit<br>capacit<br>capacit<br>capacit<br>capacit<br>capacit<br>capacit<br>capacit<br>capacit<br>capacit<br>capacit<br>capacit<br>capacit<br>capacit<br>capacit<br>capacit<br>capacit<br>capacit<br>capacit<br>capacit<br>capacit<br>capacit<br>capacit<br>capacit<br>capacit<br>capacit<br>capacit<br>capacit<br>capacit<br>capacit<br>capacit<br>capacit<br>capacit<br>capacit<br>capacit<br>capacit<br>capacit<br>capacit<br>capacit<br>capacit<br>capacit<br>capacit<br>capacit<br>capacit<br>capacit<br>capacit<br>capacit<br>capacit<br>capacit<br>capacit<br>capacit<br>capacit<br>capacit<br>capacit<br>capacit<br>capacit<br>capacit<br>capacit<br>capacit<br>capacit<br>capacit<br>capacit<br>capacit<br>capacit<br>capacit<br>capacit<br>capacit<br>capacit<br>capacit<br>capacit<br>capacit<br>capacit<br>capacit<br>capacit<br>capacit<br>capacit<br>capacit<br>capacit<br>capacit<br>capacit<br>capacit<br>capacit<br>capacit<br>capacit<br>capacit<br>capacit<br>capacit<br>capacit<br>capacit<br>capacit<br>capacit<br>capacit<br>capacit<br>capacit<br>capacit<br>capacit<br>capacit<br>capacit<br>capacit<br>capacit<br>capacit<br>capacit<br>capacit<br>capacit<br>capacit<br>capacit<br>capacit<br>capacit<br>capacit<br>capacit<br>capacit<br>capacit<br>capacit<br>capacit<br>capacit<br>capacit<br>capacit<br>capacit<br>capacit<br>capacit<br>capacit<br>capacit<br>capacit<br>capacit<br>capacit<br>capacit<br>capacit<br>capacit<br>capacit<br>capacit<br>capacit<br>capacit<br>capacit<br>capacit<br>capacit<br>capacit<br>capacit<br>capacit<br>capacit<br>capacit<br>capacit<br>capacit<br>capacit<br>capacit<br>capacit<br>capacit<br>capacit<br>capacit<br>capacit<br>capacit<br>capacit<br>capacit<br>capacit<br>capacit<br>capacit<br>capacit<br>capacit<br>capacit<br>capacit<br>capacit<br>capacit<br>capacit<br>capacit<br>capacit<br>capacit<br>capacit<br>capacit<br>capacit<br>capacit<br>capacit<br>capacit<br>capacit<br>capacit<br>capacit<br>capacit<br>capacit<br>capacit<br>capacit<br>capacit<br>capacit<br>capacit<br>capacit<br>capacit<br>capaci   | ity *1<br>*2<br>ity *7<br>ity *7<br>a<br>ooling *3<br>eating *3     | BTU/h<br>kW<br>kW<br>BTU/h<br>kW<br>kW<br>A<br>A<br>A<br>A<br>mm<br>in.<br>kg(lbs)<br>m³/min<br>L/s<br>cfm   | 27,300<br>8.1<br>9.0<br>30,700<br>0.14 [0.12]<br>0.12<br>1.15 [1.04]<br>1.04<br>250 x 1,100 x 732<br>9-7/8 x 43-5/16 x 28-7/8<br>32 (71) [31 (69)]<br>14.5 - 18.0 - 21.0<br>242 - 300 - 350<br>512 - 636 - 742   | 30,700<br>9.2<br>10.0<br>34,100<br>0.14 [0.12]<br>0.12<br>1.15 [1.04]<br>1.04<br>250 x 1,100 x 732<br>9-7/8 x 43-5/16 x 28-7/8<br>32 (71) [31 (69)]<br>14.5 - 18.0 - 21.0<br>242 - 300 - 350<br>512 - 636 - 742   | 11.2<br>38,200<br>11.4<br>12.5<br>42,700<br>0.24 [0.22]<br>0.22<br>1.47 [1.36]<br>1.36<br>Galvanized<br>250 x 1,400 x 732<br>9-7/8 x 55-1/8 x 28-7/8<br>42 (93) [41 (91)]<br>Cross fin (Aluminum<br>Sirocco fan x 2<br>23.0 - 28.0 - 33.0<br>383 - 467 - 550<br>812 - 989 - 1,165<br>40-450 - 50-470-4100-4150   | -240V 50 / 60Hz<br>14.0<br>47,800<br>14.2<br>16.0<br>54,600<br>0.34 [0.32]<br>0.32<br>2.05 [1.94]<br>1.94<br>i steel plate<br>250 x 1,400 x 732<br>9-7/8 x 55-1/8 x 28-7/8<br>42 (93) [41 (91)]<br>fin and copper tube)<br>28.0 - 34.0 - 40.0<br>467 - 567 - 667<br>989 - 1,201 - 1,412<br>20 - 35 - 50 - 67 - 610 - 410 - 450-  | 54,600<br>16.3<br>18.0<br>61,400<br>0.36 [0.34]<br>0.34<br>2.21 [2.10]<br>2.10<br>250 x 1,600 x 732<br>9-7/8 x 63 x 28-7/8<br>46 (102) [45 (100)]<br>29.5 - 35.5 - 42.0<br>492 - 592 - 700<br>1,042 - 1,254 - 1,483  | 7,500<br>  |  |  |  |
| ooling<br>Nomin<br>ooling<br>leating<br>Nomin<br>ower<br>onsum<br>urrent<br>xterna<br>imens<br>let wei<br>leat ex<br>an  | capacit<br>al)<br>capacit<br>capacit<br>capacit<br>capacit<br>al)<br>capacit<br>al)<br>capacit<br>change<br>Type x<br>Airflow<br>(Low-N<br>Externa<br>pressu<br>Type   | ity *1<br>*2<br>ity *7<br>ity *2<br>*3<br>ooling *3<br>eating *3    | BTU/h<br>kW<br>kW<br>BTU/h<br>kW<br>kW<br>A<br>A<br>A<br>A<br>mm<br>in.<br>kg(lbs)<br>m³/min<br>L/s<br>cfm   | 27,300<br>8.1<br>9.0<br>30,700<br>0.14 [0.12]<br>0.12<br>1.15 [1.04]<br>1.04<br>250 × 1,100 × 732<br>9-7/8 × 43-5/16 × 28-7/8<br>32 (71) [31 (69)]<br>14.5 - 18.0 - 21.0<br>242 - 300 - 350<br>512 - 636 - 742<br>2035-50-70⊳-100150⊳  | 30,700<br>9.2<br>10.0<br>34,100<br>0.14 [0.12]<br>0.12<br>1.15 [1.04]<br>1.04<br>250 × 1,100 × 732<br>9-7/8 × 43-5/16 × 28-7/8<br>32 (71) [31 (69)]<br>14.5 - 18.0 - 21.0<br>242 - 300 - 350<br>512 - 636 - 742<br><∞35-50-715-<105-<155  | 11.2<br>38,200<br>11.4<br>12.5<br>42,700<br>0.24 [0.22]<br>0.22<br>1.47 [1.36]<br>1.36<br>Galvanized<br>250 x 1,400 x 732<br>9-7/8 x 55-1/8 x 28-7/8<br>42 (93) [41 (91)]<br>Cross fin (Aluminum<br>Sirocco fan x 2<br>23.0 - 28.0 - 33.0<br>383 - 467 - 550<br>812 - 989 - 1,165  | -240V 50 / 60Hz<br>14.0<br>47,800<br>14.2<br>16.0<br>54,600<br>0.34 [0.32]<br>0.32<br>2.05 [1.94]<br>1.94<br>1.94<br>1.94<br>1.94<br>1.94<br>1.94<br>1.94<br>1.94<br>1.94<br>1.94<br>1.94<br>1.94<br>1.94<br>1.94<br>1.94<br>1.94<br>1.94<br>1.94<br>1.94<br>250 x 1,400 x 732<br>9-7/8 x 28-7/8<br>42 (93) [41 (91)]<br>fin and copper tube)<br>28.0 - 34.0 - 40.0<br>467 - 567 - 667<br>989 - 1,201 - 1,412  | 54,600<br>16.3<br>18.0<br>61,400<br>0.36 [0.34]<br>0.34<br>2.21 [2.10]<br>2.10<br>250 × 1,600 × 732<br>9-7/8 × 63 × 28-7/8<br>46 (102) [45 (100)]<br>29.5 - 35.5 - 42.0<br>492 - 592 - 700<br>1,042 - 1,254 - 1,483  | 7,500<br>  |  |  |  |
| cooling<br>Nomin<br>cooling<br>leating<br>Nomin<br>ower<br>consum<br>current<br>xterna<br>imens<br>let wei<br>leat ex<br>an  | capacit<br>al)<br>capacit<br>capacit<br>capacit<br>capacit<br>al)<br>capacit<br>capacit<br>capacit<br>capacit<br>capacit<br>capacit<br>capacit<br>capacit<br>capacit<br>capacit<br>capacit<br>capacit<br>capacit<br>capacit<br>capacit<br>capacit<br>capacit<br>capacit<br>capacit<br>capacit<br>capacit<br>capacit<br>capacit<br>capacit<br>capacit<br>capacit<br>capacit<br>capacit<br>capacit<br>capacit<br>capacit<br>capacit<br>capacit<br>capacit<br>capacit<br>capacit<br>capacit<br>capacit<br>capacit<br>capacit<br>capacit<br>capacit<br>capacit<br>capacit<br>capacit<br>capacit<br>capacit<br>capacit<br>capacit<br>capacit<br>capacit<br>capacit<br>capacit<br>capacit<br>capacit<br>capacit<br>capacit<br>capacit<br>capacit<br>capacit<br>capacit<br>capacit<br>capacit<br>capacit<br>capacit<br>capacit<br>capacit<br>capacit<br>capacit<br>capacit<br>capacit<br>capacit<br>capacit<br>capacit<br>capacit<br>capacit<br>capacit<br>capacit<br>capacit<br>capacit<br>capacit<br>capacit<br>capacit<br>capacit<br>capacit<br>capacit<br>capacit<br>capacit<br>capacit<br>capacit<br>capacit<br>capacit<br>capacit<br>capacit<br>capacit<br>capacit<br>capacit<br>capacit<br>capacit<br>capacit<br>capacit<br>capacit<br>capacit<br>capacit<br>capacit<br>capacit<br>capacit<br>capacit<br>capacit<br>capacit<br>capacit<br>capacit<br>capacit<br>capacit<br>capacit<br>capacit<br>capacit<br>capacit<br>capacit<br>capacit<br>capacit<br>capacit<br>capacit<br>capacit<br>capacit<br>capacit<br>capacit<br>capacit<br>capacit<br>capacit<br>capacit<br>capacit<br>capacit<br>capacit<br>capacit<br>capacit<br>capacit<br>capacit<br>capacit<br>capacit<br>capacit<br>capacit<br>capacit<br>capacit<br>capacit<br>capacit<br>capacit<br>capacit<br>capacit<br>capacit<br>capacit<br>capacit<br>capacit<br>capacit<br>capacit<br>capacit<br>capacit<br>capacit<br>capacit<br>capacit<br>capacit<br>capacit<br>capacit<br>capacit<br>capacit<br>capacit<br>capacit<br>capacit<br>capacit<br>capacit<br>capacit<br>capacit<br>capacit<br>capacit<br>capacit<br>capacit<br>capacit<br>capacit<br>capacit<br>capacit<br>capacit<br>capacit<br>capacit<br>capacit<br>capacit<br>capacit<br>capacit<br>capacit<br>capacit<br>capacit<br>capacit<br>capacit<br>capacit<br>capacit<br>capacit<br>capacit<br>capacit<br>capacit<br>capacit<br>capacit<br>capacit<br>capacit<br>capacit<br>capacit<br>capacit<br>capacit<br>capacit<br>capacit<br>capacit<br>capacit<br>capacit<br>capacit<br>capacit<br>capacit<br>capacit<br>capacit<br>capacit<br>capacit<br>capacit<br>capacit<br>capacit<br>capacit<br>capacit<br>capacit<br>capacit<br>capacit<br>capacit<br>capacit<br>capacit<br>capacit<br>capacit<br>capacit<br>capacit<br>capacit<br>capacit<br>capacit<br>capacit<br>capacit<br>capacit<br>capacit<br>capacit<br>capacit<br>capacit<br>capacit<br>capacit<br>capacit<br>capacit<br>capacit<br>capacit<br>capaci   | ity *1<br>*2<br>ity *7<br>ity *2<br>*3<br>ooling *3<br>eating *3    | BTU/h<br>kW<br>kW<br>BTU/h<br>kW<br>kW<br>A<br>A<br>A<br>A<br>mm<br>in.<br>kg(lbs)<br>m³/min<br>L/s<br>cfm   | 27,300<br>8.1<br>9.0<br>30,700<br>0.14 [0.12]<br>0.12<br>1.15 [1.04]<br>1.04<br>250 x 1,100 x 732<br>9-7/8 x 43-5/16 x 28-7/8<br>32 (71) [31 (69)]<br>14.5 - 18.0 - 21.0<br>242 - 300 - 350<br>512 - 636 - 742   | 30,700<br>9.2<br>10.0<br>34,100<br>0.14 [0.12]<br>0.12<br>1.15 [1.04]<br>1.04<br>250 x 1,100 x 732<br>9-7/8 x 43-5/16 x 28-7/8<br>32 (71) [31 (69)]<br>14.5 - 18.0 - 21.0<br>242 - 300 - 350<br>512 - 636 - 742   | 11.2<br>38,200<br>11.4<br>12.5<br>42,700<br>0.24 [0.22]<br>0.22<br>1.47 [1.36]<br>1.36<br>Galvanized<br>250 x 1,400 x 732<br>9-7/8 x 55-1/8 x 28-7/8<br>42 (93) [41 (91)]<br>Cross fin (Aluminum<br>Sirocco fan x 2<br>23.0 - 28.0 - 33.0<br>383 - 467 - 550<br>812 - 989 - 1,165<br>40-450 - 50-470-4100-4150   | -240V 50 / 60Hz<br>14.0<br>47,800<br>14.2<br>16.0<br>54,600<br>0.34 [0.32]<br>0.32<br>2.05 [1.94]<br>1.94<br>i steel plate<br>250 x 1,400 x 732<br>9-7/8 x 55-1/8 x 28-7/8<br>42 (93) [41 (91)]<br>fin and copper tube)<br>28.0 - 34.0 - 40.0<br>467 - 567 - 667<br>989 - 1,201 - 1,412<br>20 - 35 - 50 - 67 - 610 - 410 - 450-  | 54,600<br>16.3<br>18.0<br>61,400<br>0.36 [0.34]<br>0.34<br>2.21 [2.10]<br>2.10<br>250 x 1,600 x 732<br>9-7/8 x 63 x 28-7/8<br>46 (102) [45 (100)]<br>29.5 - 35.5 - 42.0<br>492 - 592 - 700<br>1,042 - 1,254 - 1,483  | 7,500<br>  |  |  |  |
| ooling<br>Nomin<br>ooling<br>leating<br>Nomin<br>ower<br>onsum<br>uurrent<br>xterna<br>imens<br>let wei<br>leat ex<br>an   | capaci           a)           g capaci           g capaci           g capaci           g capaci           g capaci           al)           g capaci           al)           g capaci           al)           g capaci           al)  | ity *1<br>*2<br>ity *7<br>ity *2<br>*3<br>ooling *3<br>eating *3    | BTU/h<br>kW<br>kW<br>BTU/h<br>kW<br>kW<br>A<br>A<br>A<br>A<br>mm<br>in.<br>kg(lbs)<br>m³/min<br>L/s<br>cfm<br>Pa   | 27,300<br>8.1<br>9.0<br>30,700<br>0.14 [0.12]<br>0.12<br>1.15 [1.04]<br>1.04<br>250 × 1,100 × 732<br>9-7/8 × 43-5/16 × 28-7/8<br>32 (71) [31 (69)]<br>14.5 - 18.0 - 21.0<br>242 - 300 - 350<br>512 - 636 - 742<br>2035-50-70⊳-100150⊳  | 30,700<br>9.2<br>10.0<br>34,100<br>0.14 [0.12]<br>0.12<br>1.15 [1.04]<br>1.04<br>250 × 1,100 × 732<br>9-7/8 × 43-5/16 × 28-7/8<br>32 (71) [31 (69)]<br>14.5 - 18.0 - 21.0<br>242 - 300 - 350<br>512 - 636 - 742<br><∞35-50-715-<105-<155  | 11.2<br>38,200<br>11.4<br>12.5<br>42,700<br>0.24 [0.22]<br>0.22<br>1.47 [1.36]<br>1.36<br>Galvanizec<br>250 x 1,400 x 732<br>9-7/8 x 55-1/8 x 28-7/8<br>42 (93) [41 (91)]<br>Cross fin (Aluminum<br>Sirocco fan x 2<br>23.0 - 28.0 - 33.0<br>383 - 467 - 550<br>812 - 989 - 1,165  | -240V 50 / 60Hz<br>14.0<br>47,800<br>14.2<br>16.0<br>54,600<br>0.34 [0.32]<br>0.32<br>2.05 [1.94]<br>1.94<br>1.94<br>1.94<br>1.94<br>1.94<br>1.94<br>1.94<br>1.94<br>1.94<br>1.94<br>1.94<br>1.94<br>1.94<br>1.94<br>1.94<br>1.94<br>1.94<br>1.94<br>1.94<br>250 x 1,400 x 732<br>9-7/8 x 55-1/8 x 28-7/8<br>42 (93) [41 (91)]<br>fin and copper tube)<br>28.0 - 34.0 - 40.0<br>467 - 567 - 667<br>989 - 1,201 - 1,412   | 54,600<br>16.3<br>18.0<br>61,400<br>0.36 [0.34]<br>0.34<br>2.21 [2.10]<br>2.10<br>250 × 1,600 × 732<br>9-7/8 × 63 × 28-7/8<br>46 (102) [45 (100)]<br>29.5 - 35.5 - 42.0<br>492 - 592 - 700<br>1,042 - 1,254 - 1,483  | 7,500<br>  |  |  |  |
| Cooling<br>Nomin<br>Cooling<br>leating<br>Nomin<br>ower<br>consum<br>Current<br>Current<br>Current<br>Current<br>Current<br>Current<br>Current<br>Current<br>Current<br>Current<br>Current<br>Current<br>Current<br>Current<br>Current<br>Current<br>Current<br>Current<br>Current<br>Current<br>Current<br>Current<br>Current<br>Current<br>Current<br>Current<br>Current<br>Current<br>Current<br>Current<br>Current<br>Current<br>Current<br>Current<br>Current<br>Current<br>Current<br>Current<br>Current<br>Current<br>Current<br>Current<br>Current<br>Current<br>Current<br>Current<br>Current<br>Current<br>Current<br>Current<br>Current<br>Current<br>Current<br>Current<br>Current<br>Current<br>Current<br>Current<br>Current<br>Current<br>Current<br>Current<br>Current<br>Current<br>Current<br>Current<br>Current<br>Current<br>Current<br>Current<br>Current<br>Current<br>Current<br>Current<br>Current<br>Current<br>Current<br>Current<br>Current<br>Current<br>Current<br>Current<br>Current<br>Current<br>Current<br>Current<br>Current<br>Current<br>Current<br>Current<br>Current<br>Current<br>Current<br>Current<br>Current<br>Current<br>Current<br>Current<br>Current<br>Current<br>Current<br>Current<br>Current<br>Current<br>Current<br>Current<br>Current<br>Current<br>Current<br>Current<br>Current<br>Current<br>Current<br>Current<br>Current<br>Current<br>Current<br>Current<br>Current<br>Current<br>Current<br>Current<br>Current<br>Current<br>Current<br>Current<br>Current<br>Current<br>Current<br>Current<br>Current<br>Current<br>Current<br>Current<br>Current<br>Current<br>Current<br>Current<br>Current<br>Current<br>Current<br>Current<br>Current<br>Current<br>Current<br>Current<br>Current<br>Current<br>Current<br>Current<br>Current<br>Current<br>Current<br>Current<br>Current<br>Current<br>Current<br>Current<br>Current<br>Current<br>Current<br>Current<br>Current<br>Current<br>Current<br>Current<br>Current<br>Current<br>Current<br>Current<br>Current<br>Current<br>Current<br>Current<br>Current<br>Current<br>Current<br>Current<br>Current<br>Current<br>Current<br>Current<br>Current<br>Current<br>Current<br>Current<br>Current<br>Current<br>Current<br>Current<br>Current<br>Current<br>Current<br>Current<br>Current<br>Current<br>Current<br>Current<br>Current<br>Current<br>Current<br>Current<br>Current<br>Current<br>Current<br>Current<br>Current<br>Current<br>Current<br>Current<br>Current<br>Current<br>Current<br>Current<br>Current<br>Current<br>Current<br>Current<br>Current<br>Current<br>Current<br>Current<br>Current<br>Current<br>Current<br>Current<br>Current<br>Current<br>Current<br>Current<br>Current<br>Current<br>Current<br>Current<br>Current<br>Current<br>Current<br>Current<br>Current<br>Current<br>Current<br>Current<br>Current<br>Current<br>Current<br>Current<br>Current<br>Current<br>Current<br>Curren | capacii<br>al)<br>capacii<br>g capacii<br>al)<br><u>Cc</u><br>capacii<br>al)<br><u>Cc</u><br>He<br>He<br>He<br>He<br>He<br>He<br>He<br>Cchange<br>Type x<br>Airflow<br>(Low-N<br>Extern:<br>Type<br>Type<br>Output   | ity *1<br>*2<br>ity *7<br>ity *7<br>ity *2<br>*3<br>eating *3<br>eating *3<br>ea | BTU/h<br>kW<br>kW<br>BTU/h<br>kW<br>A<br>A<br>A<br>A<br>M<br>mm<br>in.<br>kg(lbs)<br>m³/min<br>L/s<br>cfm<br>Pa<br>kW  | 27,300<br>8.1<br>9.0<br>30,700<br>0.14 [0.12]<br>0.12<br>1.15 [1.04]<br>1.04<br>250 x 1,100 x 732<br>9-7/8 x 43-5/16 x 28-7/8<br>32 (71) [31 (69)]<br>14.5 - 18.0 - 21.0<br>242 - 300 - 350<br>512 - 636 - 742<br>20-35-50-70-400-<50-   | 30,700<br>9.2<br>10.0<br>34,100<br>0.14 [0.12]<br>0.12<br>1.15 [1.04]<br>1.04<br>250 x 1,100 x 732<br>9-7/8 x 43-5/16 x 28-7/8<br>32 (71) [31 (69)]<br>14.5 - 18.0 - 21.0<br>242 - 300 - 350<br>512 - 636 - 742<br>20-35-50-70-400-450  | 11.2<br>38,200<br>11.4<br>12.5<br>42,700<br>0.24 [0.22]<br>0.22<br>1.47 [1.36]<br>1.36<br>Galvanized<br>250 x 1,400 x 732<br>9-7/8 x 55-1/8 x 28-7/8<br>42 (93) [41 (91)]<br>Cross fin (Aluminum<br>Sirocco fan x 2<br>23.0 - 28.0 - 33.0<br>383 - 467 - 550<br>812 - 989 - 1,165<br>⊲b - ⊲b -   | -240V 50 / 60Hz<br>14.0<br>47,800<br>14.2<br>16.0<br>54,600<br>0.34 [0.32]<br>0.32<br>2.05 [1.94]<br>1.94<br>1 steel plate<br>250 x 1,400 x 732<br>9-7/8 x 55-1/8 x 28-7/8<br>42 (93) [41 (91)]<br>fin and copper tube)<br>28.0 - 34.0 - 40.0<br>467 - 567 - 667<br>989 - 1,201 - 1,412<br>⊲b→-⊲b→-⊲b→-⊲b→-⊲db→<br>notor<br>0.244<br>omb fabric.   | 54,600<br>16.3<br>18.0<br>61,400<br>0.36 [0.34]<br>0.34<br>2.21 [2.10]<br>2.10<br>250 x 1,600 x 732<br>9-7/8 x 63 x 28-7/8<br>46 (102) [45 (100)]<br>29.5 - 35.5 - 42.0<br>492 - 592 - 700<br>1,042 - 1,254 - 1,483<br>20-25-50 - 70-400 - <150-   | 7,500<br><br>0.110<br><br>0.90<br><br>250 × 900 × 73<br>9-7/8 × 35-7/16 × 21<br>27(60)<br>Sirocco fan ×<br>12.0 - 14.5 - 17<br>200 - 242 - 28<br>424 - 512 - 60<br><35> -50 - <70> -<10> - |  |  |  |
| Cooling<br>Nomin<br>Cooling<br>leating<br>Nomin<br>Tower<br>onsum<br>Current<br>Externa<br>Statema<br>leat ex<br>leat e | capacii<br>a)<br>capacii<br>capacii<br>capacii<br>a)<br>capacii<br>capacii<br>a)<br>capacii<br>capacii<br>capacii<br>capacii<br>capacii<br>capacii<br>capacii<br>capacii<br>capacii<br>capacii<br>capacii<br>capacii<br>capacii<br>capacii<br>capacii<br>capacii<br>capacii<br>capacii<br>capacii<br>capacii<br>capacii<br>capacii<br>capacii<br>capacii<br>capacii<br>capacii<br>capacii<br>capacii<br>capacii<br>capacii<br>capacii<br>capacii<br>capacii<br>capacii<br>capacii<br>capacii<br>capacii<br>capacii<br>capacii<br>capacii<br>capacii<br>capacii<br>capacii<br>capacii<br>capacii<br>capacii<br>capacii<br>capacii<br>capacii<br>capacii<br>capacii<br>capacii<br>capacii<br>capacii<br>capacii<br>capacii<br>capacii<br>capacii<br>capacii<br>capacii<br>capacii<br>capacii<br>capacii<br>capacii<br>capacii<br>capacii<br>capacii<br>capacii<br>capacii<br>capacii<br>capacii<br>capacii<br>capacii<br>capacii<br>capacii<br>capacii<br>capacii<br>capacii<br>capacii<br>capacii<br>capacii<br>capacii<br>capacii<br>capacii<br>capacii<br>capacii<br>capacii<br>capacii<br>capacii<br>capacii<br>capacii<br>capacii<br>capacii<br>capacii<br>capacii<br>capacii<br>capacii<br>capacii<br>capacii<br>capacii<br>capacii<br>capacii<br>capacii<br>capacii<br>capacii<br>capacii<br>capacii<br>capacii<br>capacii<br>capacii<br>capacii<br>capacii<br>capacii<br>capacii<br>capacii<br>capacii<br>capacii<br>capacii<br>capacii<br>capacii<br>capacii<br>capacii<br>capacii<br>capacii<br>capacii<br>capacii<br>capacii<br>capacii<br>capacii<br>capacii<br>capacii<br>capacii<br>capacii<br>capacii<br>capacii<br>capacii<br>capacii<br>capacii<br>capacii<br>capacii<br>capacii<br>capacii<br>capacii<br>capacii<br>capacii<br>capacii<br>capacii<br>capacii<br>capacii<br>capacii<br>capacii<br>capacii<br>capacii<br>capacii<br>capacii<br>capacii<br>capacii<br>capacii<br>capacii<br>capacii<br>capacii<br>capacii<br>capacii<br>capacii<br>capacii<br>capacii<br>capacii<br>capacii<br>capacii<br>capacii<br>capacii<br>capacii<br>capacii<br>capacii<br>capacii<br>capacii<br>capacii<br>capacii<br>capacii<br>capacii<br>capacii<br>capacii<br>capacii<br>capacii<br>capacii<br>capacii<br>capacii<br>capacii<br>capacii<br>capacii<br>capacii<br>capacii<br>capacii<br>capacii<br>capacii<br>capacii<br>capacii<br>capacii<br>capacii<br>capacii<br>capacii<br>capacii<br>capacii<br>capacii<br>capacii<br>capacii<br>capacii<br>capacii<br>capacii<br>capacii<br>capacii<br>capacii<br>capacii<br>capacii<br>capacii<br>capacii<br>capacii<br>capacii<br>capacii<br>capacii<br>capacii<br>capacii<br>capacii<br>capacii<br>capacii<br>capacii<br>capacii<br>capacii<br>capacii<br>capacii<br>capacii<br>capacii<br>capacii<br>capacii<br>capacii<br>capacii<br>capacii<br>capacii<br>capacii<br>capacii<br>capacii<br>capacii<br>capacii<br>capacii<br>capacii<br>capacii<br>capacii<br>capacii<br>capac  | ity *1<br>*2<br>ity *7<br>ity *7<br>ity *2<br>*3<br>coling *3<br>eating *3<br>ea | BTU/h<br>kW<br>kW<br>BTU/h<br>kW<br>kW<br>A<br>A<br>A<br>A<br>A<br>M<br>mm<br>in.<br>kg(lbs)<br>B<br>B<br>B<br>B<br>B<br>B<br>B<br>B<br>B<br>B<br>B<br>B<br>B<br>B<br>B<br>B<br>B<br>B | 27,300<br>8.1<br>9.0<br>30,700<br>0.14 [0.12]<br>0.12<br>1.15 [1.04]<br>1.04<br>250 x 1,100 x 732<br>9-7/8 x 43-5/16 x 28-7/8<br>32 (71) [31 (69)]<br>14.5 - 18.0 - 21.0<br>242 - 300 - 350<br>512 - 636 - 742<br>db-d5-50-c7b-c10b-c15b<br>0.121<br>9.52 (3/8) Brazed                       | 30,700<br>9.2<br>10.0<br>34,100<br>0.14 [0.12]<br>0.12<br>1.15 [1.04]<br>1.04<br>250 x 1,100 x 732<br>9-7/8 x 43-5/16 x 28-7/8<br>32 (71) [31 (69)]<br>14.5 - 18.0 - 21.0<br>242 - 300 - 350<br>512 - 636 - 742<br>cdbd5-50-cfbdfbdfb-<br>0.121<br>9.52 (3/8) Brazed                      | 11.2<br>38,200<br>11.4<br>12.5<br>42,700<br>0.24 [0.22]<br>0.22<br>1.47 [1.36]<br>1.36<br>Galvanized<br>250 x 1,400 x 732<br>9-7/8 x 55-1/8 x 28-7/8<br>42 (93) [41 (91)]<br>Cross fin (Aluminum<br>Sirocco fan x 2<br>23.0 - 28.0 - 33.0<br>383 - 467 - 550<br>812 - 989 - 1,165  | -240V 50 / 60Hz<br>14.0<br>47,800<br>14.2<br>16.0<br>54,600<br>0.34 [0.32]<br>0.32<br>2.05 [1.94]<br>1.94<br>i steel plate<br>250 x 1,400 x 732<br>9-7/8 x 55-1/8 x 28-7/8<br>42 (93) [41 (91)]<br>fin and copper tube)<br>28.0 - 34.0 - 40.0<br>467 - 567 - 667<br>989 - 1,201 - 1,412  | 54,600<br>16.3<br>18.0<br>61,400<br>0.36 [0.34]<br>0.34<br>2.21 [2.10]<br>2.10<br>250 x 1,600 x 732<br>9-7/8 x 63 x 28-7/8<br>46 (102) [45 (100)]<br>29.5 - 35.5 - 42.0<br>492 - 592 - 700<br>1,042 - 1,254 - 1,483<br>2035 - 50 - √0 - <100 - <150<br>0.244<br>9.52 (3/8) Brazed                  | 7,500<br>  |  |  |  |
| Cooling<br>Nomin<br>Cooling<br>Jeating<br>Nomin<br>ower<br>Current<br>Current<br>Current<br>Current<br>Et wei<br>Jeat ex<br>Jeat e | capacii<br>g capacii<br>g capacii<br>g capacii<br>g capacii<br>al)<br>CC<br>He<br>He<br>Hinish<br>H C<br>CC<br>He<br>He<br>He<br>He<br>He<br>He<br>He<br>He<br>He<br>He  | ity *1<br>*2<br>ity *7<br>ity *7<br>ity *2<br>*3<br>coling *3<br>eating *3<br>ea | BTU/h<br>kW<br>kW<br>BTU/h<br>kW<br>kW<br>A<br>A<br>A<br>M<br>mm<br>in.<br>kg(lbs)<br>m <sup>3</sup> /min<br>L/s<br>cfm<br>Pa<br>kW<br>kW<br>mm(in.)                                   | 27,300<br>8.1<br>9.0<br>30,700<br>0.14 [0.12]<br>0.12<br>1.15 [1.04]<br>1.04<br>250 x 1,100 x 732<br>9-7/8 x 43-5/16 x 28-7/8<br>32 (71) [31 (69)]<br>14.5 - 18.0 - 21.0<br>242 - 300 - 350<br>242 - 300 - 350<br>242 - 300 - 350<br>0.121<br>9.52 (3/8) Brazed<br>15.88 (5/8) Brazed        | 30,700<br>9.2<br>10.0<br>34,100<br>0.14 [0.12]<br>0.12<br>1.15 [1.04]<br>1.04<br>250 x 1,100 x 732<br>9-7/8 x 43-5/16 x 28-7/8<br>32 (71) [31 (69)]<br>14.5 - 18.0 - 21.0<br>242 - 300 - 350<br>512 - 636 - 742<br>2(b-35)-50-7(b-35)<br>0.121<br>9.52 (3/8) Brazed<br>15.88 (5/8) Brazed | 11.2           38,200           11.4           12.5           42,700           0.24 [0.22]           0.22           1.47 [1.36]           1.36           Galvanized           250 x 1,400 x 732           9-7/8 x 55-1/8 x 28-7/8           42 (93) [41 (91)]           Cross fin (Aluminum           Sirocco fan x 2           23.0 - 28.0 - 33.0           383 - 467 - 550           812 - 989 - 1,165           20-450 - 470 - 4100 - 4500           DC r           0.244           PP honeyce           9.52 (3/8) Brazed           15.88 (5/8) Brazed | -240V 50 / 60Hz<br>14.0<br>47,800<br>14.2<br>16.0<br>54,600<br>0.34 [0.32]<br>0.32<br>2.05 [1.94]<br>1.94<br>1.94<br>1 steel plate<br>250 x 1,400 x 732<br>9-7/8 x 55-1/8 x 28-7/8<br>42 (93) [41 (91)]<br>fin and copper tube)<br>28.0 - 34.0 - 40.0<br>467 - 567 - 667<br>989 - 1,201 - 1,412<br>28.0 - 34.0 - 40.0<br>467 - 567 - 667<br>989 - 1,201 - 1,412<br>-28.0 - 34.0 - 40.0<br>467 - 567 - 667<br>989 - 1,201 - 1,412<br>-28.0 - 34.0 - 40.0<br>467 - 567 - 667<br>989 - 1,201 - 1,412<br>-28.0 - 34.0 - 40.0<br>467 - 567 - 667<br>989 - 1,201 - 1,412<br>-28.0 - 34.0 - 40.0<br>467 - 567 - 667<br>989 - 1,201 - 1,412<br>-28.0 - 34.0 - 40.0<br>467 - 567 - 667<br>989 - 1,201 - 1,412<br>-28.0 - 34.0 - 40.0<br>467 - 567 - 667<br>989 - 1,201 - 1,412<br>-28.0 - 34.0 - 40.0<br>467 - 567 - 667<br>989 - 1,201 - 1,412<br>-28.0 - 34.0 - 40.0<br>467 - 567 - 667<br>989 - 1,201 - 1,412<br>-28.0 - 34.0 - 40.0<br>467 - 567 - 667<br>989 - 1,201 - 1,412<br>-28.0 - 34.0 - 40.0<br>-35.2 (3/8) Brazed 15.88 (5/8) Brazed | 54,600<br>16.3<br>18.0<br>61,400<br>0.36 [0.34]<br>0.34<br>2.21 [2.10]<br>2.10<br>250 x 1,600 x 732<br>9-7/8 x 63 x 28-7/8<br>46 (102) [45 (100)]<br>29.5 - 35.5 - 42.0<br>492 - 592 - 700<br>1,042 - 1,254 - 1,483<br>20-35-50 - 70-400 - 450<br>0.244<br>9.52 (3/8) Brazed<br>15.88 (5/8) Brazed | 7,500<br>  |  |  |  |
| Cooling<br>Nomin<br>Cooling<br>Heating<br>Nomin<br>Courrent<br>Current<br>Current<br>Externa<br>Dimens<br>Het wei<br>Heat ex<br>Fan<br>Aotor<br>Kir filter<br>Hefrigera<br>ipe diar  | capacii<br>al)<br>capacii<br>capacii<br>al)<br>capacii<br>al)<br>capacii<br>al)<br>capacii<br>capacii<br>capacii<br>capacii<br>capacii<br>capacii<br>capacii<br>capacii<br>capacii<br>capacii<br>capacii<br>capacii<br>capacii<br>capacii<br>capacii<br>capacii<br>capacii<br>capacii<br>capacii<br>capacii<br>capacii<br>capacii<br>capacii<br>capacii<br>capacii<br>capacii<br>capacii<br>capacii<br>capacii<br>capacii<br>capacii<br>capacii<br>capacii<br>capacii<br>capacii<br>capacii<br>capacii<br>capacii<br>capacii<br>capacii<br>capacii<br>capacii<br>capacii<br>capacii<br>capacii<br>capacii<br>capacii<br>capacii<br>capacii<br>capacii<br>capacii<br>capacii<br>capacii<br>capacii<br>capacii<br>capacii<br>capacii<br>capacii<br>capacii<br>capacii<br>capacii<br>capacii<br>capacii<br>capacii<br>capacii<br>capacii<br>capacii<br>capacii<br>capacii<br>capacii<br>capacii<br>capacii<br>capacii<br>capacii<br>capacii<br>capacii<br>capacii<br>capacii<br>capacii<br>capacii<br>capacii<br>capacii<br>capacii<br>capacii<br>capacii<br>capacii<br>capacii<br>capacii<br>capacii<br>capacii<br>capacii<br>capacii<br>capacii<br>capacii<br>capacii<br>capacii<br>capacii<br>capacii<br>capacii<br>capacii<br>capacii<br>capacii<br>capacii<br>capacii<br>capacii<br>capacii<br>capacii<br>capacii<br>capacii<br>capacii<br>capacii<br>capacii<br>capacii<br>capacii<br>capacii<br>capacii<br>capacii<br>capacii<br>capacii<br>capacii<br>capacii<br>capacii<br>capacii<br>capacii<br>capacii<br>capacii<br>capacii<br>capacii<br>capacii<br>capacii<br>capacii<br>capacii<br>capacii<br>capacii<br>capacii<br>capacii<br>capacii<br>capacii<br>capacii<br>capacii<br>capacii<br>capacii<br>capacii<br>capacii<br>capacii<br>capacii<br>capacii<br>capacii<br>capacii<br>capacii<br>capacii<br>capacii<br>capacii<br>capacii<br>capacii<br>capacii<br>capacii<br>capacii<br>capacii<br>capacii<br>capacii<br>capacii<br>capacii<br>capacii<br>capacii<br>capacii<br>capacii<br>capacii<br>capacii<br>capacii<br>capacii<br>capacii<br>capacii<br>capacii<br>capacii<br>capacii<br>capacii<br>capacii<br>capacii<br>capacii<br>capacii<br>capacii<br>capacii<br>capacii<br>capacii<br>capacii<br>capacii<br>capacii<br>capacii<br>capacii<br>capacii<br>capacii<br>capacii<br>capacii<br>capacii<br>capacii<br>capacii<br>capacii<br>capacii<br>capacii<br>capacii<br>capacii<br>capacii<br>capacii<br>capacii<br>capacii<br>capacii<br>capacii<br>capacii<br>capacii<br>capacii<br>capacii<br>capacii<br>capacii<br>capacii<br>capacii<br>capacii<br>capacii<br>capacii<br>capacii<br>capacii<br>capacii<br>capacii<br>capacii<br>capacii<br>capacii<br>capacii<br>capacii<br>capacii<br>capacii<br>capacii<br>capacii<br>capacii<br>capacii<br>capacii<br>capacii<br>capacii<br>capacii<br>capacii<br>capacii<br>capacii<br>capacii<br>capacii<br>capacii<br>capacii<br>capacii<br>capacii<br>capacii<br>capaci  | ity *1<br>*2<br>ity *7<br>ity *2<br>*3<br>ooling *3<br>eating *3    | BTU/h<br>kW<br>kW<br>BTU/h<br>kW<br>kW<br>A<br>A<br>A<br>A<br>M<br>m<br>(in)<br>in,<br>in,<br>in,<br>in,<br>in,<br>in,<br>in,<br>in,<br>in,<br>in,                                     | 27,300<br>8.1<br>9.0<br>30,700<br>0.14 [0.12]<br>0.12<br>1.15 [1.04]<br>1.04<br>9-7/8 x 43-5/16 x 28-7/8<br>32 (71) [31 (69)]<br>14.5 - 18.0 - 21.0<br>242 - 300 - 350<br>512 - 636 - 742<br>4D - 4D - 4DD - 4DD - 4DD<br>0.121<br>9.52 (3/8) Brazed<br>15.88 (5/8) Brazed<br>0.D.32 (1-1/4) | 30,700<br>9.2<br>10.0<br>34,100<br>0.14 [0.12]<br>0.12<br>1.15 [1.04]<br>1.04<br>250 x 1,100 x 732<br>9-7/8 x 43-5/16 x 28-7/8<br>32 (71) [31 (69)]<br>14.5 - 18.0 - 21.0<br>242 - 300 - 350<br>512 - 636 - 742<br>cdbd5-50-cfbdfbdfb-<br>0.121<br>9.52 (3/8) Brazed                      | 11.2           38,200           11.4           12.5           42,700           0.24 [0.22]           0.22           1.47 [1.36]           1.36           Galvanized           250 x 1,400 x 732           9-7/8 x 55-1/8 x 28-7/8           42 (93) [41 (91)]           Cross fin (Aluminum<br>Sirocco fan x 2           23.0 - 28.0 - 33.0           383 - 467 - 550           812 - 989 - 1,165           <  | -240V 50 / 60Hz<br>14.0<br>47,800<br>14.2<br>16.0<br>54,600<br>0.34 [0.32]<br>0.32<br>2.05 [1.94]<br>1.94<br>i steel plate<br>250 x 1,400 x 732<br>9-7/8 x 55-1/8 x 28-7/8<br>42 (93) [41 (91)]<br>fin and copper tube)<br>28.0 - 34.0 - 40.0<br>467 - 567 - 667<br>989 - 1,201 - 1,412  | 54,600<br>16.3<br>18.0<br>61,400<br>0.36 [0.34]<br>0.34<br>2.21 [2.10]<br>2.10<br>250 x 1,600 x 732<br>9-7/8 x 63 x 28-7/8<br>46 (102) [45 (100)]<br>29.5 - 35.5 - 42.0<br>492 - 592 - 700<br>1,042 - 1,254 - 1,483<br>2035 - 50 - √0 - <100 - <150<br>0.244<br>9.52 (3/8) Brazed                  | 7,500<br>  |  |  |  |
| Cooling<br>Nomin<br>Cooling<br>Heating<br>Nomin<br>Yower<br>consum<br>Current<br>Externa<br>Current<br>Externa<br>Dimens<br>Let wei<br>Heat ext<br>Fan<br>Actor  | capacii<br>al)<br>capacii<br>capacii<br>al)<br>capacii<br>al)<br>capacii<br>al)<br>capacii<br>capacii<br>capacii<br>capacii<br>capacii<br>capacii<br>capacii<br>capacii<br>capacii<br>capacii<br>capacii<br>capacii<br>capacii<br>capacii<br>capacii<br>capacii<br>capacii<br>capacii<br>capacii<br>capacii<br>capacii<br>capacii<br>capacii<br>capacii<br>capacii<br>capacii<br>capacii<br>capacii<br>capacii<br>capacii<br>capacii<br>capacii<br>capacii<br>capacii<br>capacii<br>capacii<br>capacii<br>capacii<br>capacii<br>capacii<br>capacii<br>capacii<br>capacii<br>capacii<br>capacii<br>capacii<br>capacii<br>capacii<br>capacii<br>capacii<br>capacii<br>capacii<br>capacii<br>capacii<br>capacii<br>capacii<br>capacii<br>capacii<br>capacii<br>capacii<br>capacii<br>capacii<br>capacii<br>capacii<br>capacii<br>capacii<br>capacii<br>capacii<br>capacii<br>capacii<br>capacii<br>capacii<br>capacii<br>capacii<br>capacii<br>capacii<br>capacii<br>capacii<br>capacii<br>capacii<br>capacii<br>capacii<br>capacii<br>capacii<br>capacii<br>capacii<br>capacii<br>capacii<br>capacii<br>capacii<br>capacii<br>capacii<br>capacii<br>capacii<br>capacii<br>capacii<br>capacii<br>capacii<br>capacii<br>capacii<br>capacii<br>capacii<br>capacii<br>capacii<br>capacii<br>capacii<br>capacii<br>capacii<br>capacii<br>capacii<br>capacii<br>capacii<br>capacii<br>capacii<br>capacii<br>capacii<br>capacii<br>capacii<br>capacii<br>capacii<br>capacii<br>capacii<br>capacii<br>capacii<br>capacii<br>capacii<br>capacii<br>capacii<br>capacii<br>capacii<br>capacii<br>capacii<br>capacii<br>capacii<br>capacii<br>capacii<br>capacii<br>capacii<br>capacii<br>capacii<br>capacii<br>capacii<br>capacii<br>capacii<br>capacii<br>capacii<br>capacii<br>capacii<br>capacii<br>capacii<br>capacii<br>capacii<br>capacii<br>capacii<br>capacii<br>capacii<br>capacii<br>capacii<br>capacii<br>capacii<br>capacii<br>capacii<br>capacii<br>capacii<br>capacii<br>capacii<br>capacii<br>capacii<br>capacii<br>capacii<br>capacii<br>capacii<br>capacii<br>capacii<br>capacii<br>capacii<br>capacii<br>capacii<br>capacii<br>capacii<br>capacii<br>capacii<br>capacii<br>capacii<br>capacii<br>capacii<br>capacii<br>capacii<br>capacii<br>capacii<br>capacii<br>capacii<br>capacii<br>capacii<br>capacii<br>capacii<br>capacii<br>capacii<br>capacii<br>capacii<br>capacii<br>capacii<br>capacii<br>capacii<br>capacii<br>capacii<br>capacii<br>capacii<br>capacii<br>capacii<br>capacii<br>capacii<br>capacii<br>capacii<br>capacii<br>capacii<br>capacii<br>capacii<br>capacii<br>capacii<br>capacii<br>capacii<br>capacii<br>capacii<br>capacii<br>capacii<br>capacii<br>capacii<br>capacii<br>capacii<br>capacii<br>capacii<br>capacii<br>capacii<br>capacii<br>capacii<br>capacii<br>capacii<br>capacii<br>capacii<br>capacii<br>capacii<br>capacii<br>capacii<br>capacii<br>capacii<br>capacii<br>capacii<br>capaci  | ity *1<br>*2<br>ity *7<br>ity *2<br>*3<br>ooling *3<br>eating *3    | BTU/h<br>kW<br>kW<br>BTU/h<br>kW<br>kW<br>A<br>A<br>A<br>A<br>M<br>m<br>(in)<br>in,<br>in,<br>in,<br>in,<br>in,<br>in,<br>in,<br>in,<br>in,<br>in,                                     | 27,300<br>8.1<br>9.0<br>30,700<br>0.14 [0.12]<br>0.12<br>1.15 [1.04]<br>1.04<br>250 x 1,100 x 732<br>9-7/8 x 43-5/16 x 28-7/8<br>32 (71) [31 (69)]<br>14.5 - 18.0 - 21.0<br>242 - 300 - 350<br>242 - 300 - 350<br>242 - 300 - 350<br>0.121<br>9.52 (3/8) Brazed<br>15.88 (5/8) Brazed        | 30,700<br>9.2<br>10.0<br>34,100<br>0.14 [0.12]<br>0.12<br>1.15 [1.04]<br>1.04<br>250 x 1,100 x 732<br>9-7/8 x 43-5/16 x 28-7/8<br>32 (71) [31 (69)]<br>14.5 - 18.0 - 21.0<br>242 - 300 - 350<br>512 - 636 - 742<br>2(b-35)-50-7(b-35)<br>0.121<br>9.52 (3/8) Brazed<br>15.88 (5/8) Brazed | 11.2           38,200           11.4           12.5           42,700           0.24 [0.22]           0.22           1.47 [1.36]           1.36           Galvanized           250 x 1,400 x 732           9-7/8 x 55-1/8 x 28-7/8           42 (93) [41 (91)]           Cross fin (Aluminum           Sirocco fan x 2           23.0 - 28.0 - 33.0           383 - 467 - 550           812 - 989 - 1,165           20-450 - 470 - 4100 - 4500           DC r           0.244           PP honeyce           9.52 (3/8) Brazed           15.88 (5/8) Brazed | -240V 50 / 60Hz<br>14.0<br>47,800<br>14.2<br>16.0<br>54,600<br>0.34 [0.32]<br>0.32<br>2.05 [1.94]<br>1.94<br>1.94<br>1 steel plate<br>250 x 1,400 x 732<br>9-7/8 x 55-1/8 x 28-7/8<br>42 (93) [41 (91)]<br>fin and copper tube)<br>28.0 - 34.0 - 40.0<br>467 - 567 - 667<br>989 - 1,201 - 1,412<br>28.0 - 34.0 - 40.0<br>467 - 567 - 667<br>989 - 1,201 - 1,412<br>-28.0 - 34.0 - 40.0<br>467 - 567 - 667<br>989 - 1,201 - 1,412<br>-28.0 - 34.0 - 40.0<br>467 - 567 - 667<br>989 - 1,201 - 1,412<br>-28.0 - 34.0 - 40.0<br>467 - 567 - 667<br>989 - 1,201 - 1,412<br>-28.0 - 34.0 - 40.0<br>467 - 567 - 667<br>989 - 1,201 - 1,412<br>-28.0 - 34.0 - 40.0<br>467 - 567 - 667<br>989 - 1,201 - 1,412<br>-28.0 - 34.0 - 40.0<br>467 - 567 - 667<br>989 - 1,201 - 1,412<br>-28.0 - 34.0 - 40.0<br>467 - 567 - 667<br>989 - 1,201 - 1,412<br>-28.0 - 34.0 - 40.0<br>467 - 567 - 667<br>989 - 1,201 - 1,412<br>-28.0 - 34.0 - 40.0<br>467 - 567 - 667<br>989 - 1,201 - 1,412<br>-28.0 - 34.0 - 40.0<br>-35.2 (3/8) Brazed 15.88 (5/8) Brazed | 54,600<br>16.3<br>18.0<br>61,400<br>0.36 [0.34]<br>0.34<br>2.21 [2.10]<br>2.10<br>250 x 1,600 x 732<br>9-7/8 x 63 x 28-7/8<br>46 (102) [45 (100)]<br>29.5 - 35.5 - 42.0<br>492 - 592 - 700<br>1,042 - 1,254 - 1,483<br>20-35-50 - 70-400 - 450<br>0.244<br>9.52 (3/8) Brazed<br>15.88 (5/8) Brazed | 7,500<br>  |  |  |  |
| Cooling<br>Nomin<br>Nomin<br>Yower<br>Current<br>Current<br>Current<br>Current<br>Current<br>Current<br>Current<br>Current<br>Current<br>Current<br>Current<br>Current<br>Current<br>Current<br>Current<br>Current<br>Current<br>Current<br>Current<br>Current<br>Current<br>Current<br>Current<br>Current<br>Current<br>Current<br>Current<br>Current<br>Current<br>Current<br>Current<br>Current<br>Current<br>Current<br>Current<br>Current<br>Current<br>Current<br>Current<br>Current<br>Current<br>Current<br>Current<br>Current<br>Current<br>Current<br>Current<br>Current<br>Current<br>Current<br>Current<br>Current<br>Current<br>Current<br>Current<br>Current<br>Current<br>Current<br>Current<br>Current<br>Current<br>Current<br>Current<br>Current<br>Current<br>Current<br>Current<br>Current<br>Current<br>Current<br>Current<br>Current<br>Current<br>Current<br>Current<br>Current<br>Current<br>Current<br>Current<br>Current<br>Current<br>Current<br>Current<br>Current<br>Current<br>Current<br>Current<br>Current<br>Current<br>Current<br>Current<br>Current<br>Current<br>Current<br>Current<br>Current<br>Current<br>Current<br>Current<br>Current<br>Current<br>Current<br>Current<br>Current<br>Current<br>Current<br>Current<br>Current<br>Current<br>Current<br>Current<br>Current<br>Current<br>Current<br>Current<br>Current<br>Current<br>Current<br>Current<br>Current<br>Current<br>Current<br>Current<br>Current<br>Current<br>Current<br>Current<br>Current<br>Current<br>Current<br>Current<br>Current<br>Current<br>Current<br>Current<br>Current<br>Current<br>Current<br>Current<br>Current<br>Current<br>Current<br>Current<br>Current<br>Current<br>Current<br>Current<br>Current<br>Current<br>Current<br>Current<br>Current<br>Current<br>Current<br>Current<br>Current<br>Current<br>Current<br>Current<br>Current<br>Current<br>Current<br>Current<br>Current<br>Current<br>Current<br>Current<br>Current<br>Current<br>Current<br>Current<br>Current<br>Current<br>Current<br>Current<br>Current<br>Current<br>Current<br>Current<br>Current<br>Current<br>Current<br>Current<br>Current<br>Current<br>Current<br>Current<br>Current<br>Curent<br>Current<br>Current<br>Current<br>Current<br>Current<br>Current<br>Current<br>Current<br>Current<br>Current<br>Current<br>Current<br>Current<br>Current<br>Current<br>Current<br>Current<br>Current<br>Current<br>Current<br>Current<br>Current<br>Current<br>Current<br>Current<br>Current<br>Current<br>Current<br>Current<br>Current<br>Current<br>Current<br>Current<br>Current<br>Current<br>Current<br>Current<br>Current<br>Current<br>Current<br>Current<br>Current<br>Current<br>Current<br>Current<br>Current<br>Current<br>Current<br>Current<br>Current<br>Current<br>Current<br>Current<br>Current<br>Current<br>Current<br>Current<br>Current<br>Current<br>Current<br>Current<br>Current<br>Current<br>Curre 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 | ity *1<br>*2<br>ity *7<br>ity *2<br>*3<br>ooling *3<br>eating *3    | BTU/h<br>kW<br>kW<br>BTU/h<br>kW<br>kW<br>A<br>A<br>A<br>M<br>mm<br>in.<br>kg(lbs)<br>mm/(in)<br>mm(in.)<br>mm(in.)<br>mm(in.)<br>easured in   | 27,300<br>8.1<br>9.0<br>30,700<br>0.14 [0.12]<br>0.12<br>1.15 [1.04]<br>1.04<br>9-7/8 x 43-5/16 x 28-7/8<br>32 (71) [31 (69)]<br>14.5 - 18.0 - 21.0<br>242 - 300 - 350<br>512 - 636 - 742<br>4D - 4D - 4DD - 4DD - 4DD<br>0.121<br>9.52 (3/8) Brazed<br>15.88 (5/8) Brazed<br>0.D.32 (1-1/4) | 30,700<br>9.2<br>10.0<br>34,100<br>0.14 [0.12]<br>0.12<br>1.15 [1.04]<br>1.04<br>250 x 1,100 x 732<br>9-7/8 x 43-5/16 x 28-7/8<br>32 (71) [31 (69)]<br>14.5 - 18.0 - 21.0<br>242 - 300 - 350<br>512 - 636 - 742<br>2(b-35)-50-7(b-35)<br>0.121<br>9.52 (3/8) Brazed<br>15.88 (5/8) Brazed | 11.2           38,200           11.4           12.5           42,700           0.24 [0.22]           0.22           1.47 [1.36]           1.36           Galvanized           250 x 1,400 x 732           9-7/8 x 55-1/8 x 28-7/8           42 (93) [41 (91)]           Cross fin (Aluminum           Sirocco fan x 2           23.0 - 28.0 - 33.0           383 - 467 - 550           812 - 989 - 1,165           20-450-470-4100-<500  | -240V 50 / 60Hz<br>14.0<br>47,800<br>14.2<br>16.0<br>54,600<br>0.34 [0.32]<br>0.32<br>2.05 [1.94]<br>1.94<br>1.94<br>1 steel plate<br>250 x 1,400 x 732<br>9-7/8 x 55-1/8 x 28-7/8<br>42 (93) [41 (91)]<br>fin and copper tube)<br>28.0 - 34.0 - 40.0<br>467 - 567 - 667<br>989 - 1,201 - 1,412<br>28.0 - 34.0 - 40.0<br>467 - 567 - 667<br>989 - 1,201 - 1,412<br>-28.0 - 34.0 - 40.0<br>467 - 567 - 667<br>989 - 1,201 - 1,412<br>-28.0 - 34.0 - 40.0<br>467 - 567 - 667<br>989 - 1,201 - 1,412<br>-28.0 - 34.0 - 40.0<br>467 - 567 - 667<br>989 - 1,201 - 1,412<br>-28.0 - 34.0 - 40.0<br>467 - 567 - 667<br>989 - 1,201 - 1,412<br>-28.0 - 34.0 - 40.0<br>467 - 567 - 667<br>989 - 1,201 - 1,412<br>-28.0 - 34.0 - 40.0<br>467 - 567 - 667<br>989 - 1,201 - 1,412<br>-28.0 - 34.0 - 40.0<br>467 - 567 - 667<br>989 - 1,201 - 1,412<br>-28.0 - 34.0 - 40.0<br>467 - 567 - 667<br>989 - 1,201 - 1,412<br>-28.0 - 34.0 - 40.0<br>467 - 567 - 667<br>989 - 1,201 - 1,412<br>-28.0 - 34.0 - 40.0<br>-35.2 (3/8) Brazed 15.88 (5/8) Brazed | 54,600<br>16.3<br>18.0<br>61,400<br>0.36 [0.34]<br>0.34<br>2.21 [2.10]<br>2.10<br>250 x 1,600 x 732<br>9-7/8 x 63 x 28-7/8<br>46 (102) [45 (100)]<br>29.5 - 35.5 - 42.0<br>492 - 592 - 700<br>1,042 - 1,254 - 1,483<br>20-35-50 - 70-400 - 450<br>0.244<br>9.52 (3/8) Brazed<br>15.88 (5/8) Brazed | 7,500<br>  |  |  |  |

#### Notes:

- Nominal cooling conditions Indoor: 27°C(81°F)DB/19°C(66°F)WB, Outdoor: 35°C(95°F)DB Pipe length: 7.5m(24-9/16ft), Level difference: 0m(0ft.)
  Nominal heating conditions Indoor: 20°C(68°F)DB, Outdoor: 7°C(45°F)DB/6°C(43°F)WB Pipe length: 7.5m(24-9/16ft.), Level difference: 0m(0ft.)
  The values are measured at the rated external static pressure.
  The rated external static pressure is shown without < >.The factory setting is the rated value.
  Measured in anechoic room with a 1m
  - Measured in anechoic room with a 1m air inlet duct and 2m air outlet duct attached to the unit and 1.5m below the unit.



\*6 Measured in anechoic room with a 2m air inlet duct and 2m air outlet duct attached to the unit and 1.5m below the unit.



\*7 Reference data under condition of Indoor 27°C(81°F)DB/19.5°C(67°F)WB, Outdoor 35°C(95°F)DB

\* [] is in case of PEFY-P VMAL-E

 When PEFY-P20VMA2-E is connected, the available range of outdoor temperature is between 10°C and 49°C.

## **INDOOR UNIT Ceiling concealed** type PEFY-P VMH(S)-E High Static Pressure



Increased design flexibility from sufficient external static pressure allows authentic duct air- conditioning with an elegant interior layout.



#### High static pressure of 200 Pa or higher

The additional external static pressure capacity provides flexibility for duct extension, branching and air outlet configuration.

| (Pa)   | PEFY-P | PEFY-P VMH-E |            |             | P63 | P71 | P80 | P100 | P125    | P140 | P200 P250 |  |  |  |
|--|--------|--------------|------------|-------------|-----|-----|-----|------|---------|------|-----------|--|--|--|
| static         230/240V         100/150/200            pressure<br>(Pa)         380V          110/22 | _      | 220V         | 50/100/200 |             |     |     |     |      |         |      |           |  |  |  |
| (Pa) 110/22  |        | 230/240V     |            | 100/150/200 |     |     |     |      |         |      |           |  |  |  |
|  |        | 380V         |            |             |     |     |     |      |         |      | 110/220   |  |  |  |
| 400/415V 130/26  | ()     | 400/415V     |            |             |     |     |     |      | 130/260 |      |           |  |  |  |

| PEFY-P VMHS-E                 | P200          | P250           |
|-------------------------------|---------------|----------------|
| External static pressure (Pa) | <50>-<100>-15 | 0-<200>-<250>* |

\*The rated external static pressure is shown without < >. The factory setting is the rated value.

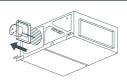
#### Reduced noise thanks to the use of newly designed centrifugal fan

Sound pressure level table (Standard static pressure 220V)

|          |       |      |     |     |     |     |     |      |      | UD(A) |
|----------|-------|------|-----|-----|-----|-----|-----|------|------|-------|
| Sound    | Capa  | city | P40 | P50 | P63 | P71 | P80 | P100 | P125 | P140  |
| pressure |       |      | 34  | 34  | 38  | 39  | 41  | 42   | 42   | 42    |
| Level    | Speed | Low  | 27  | 27  | 32  | 32  | 35  | 34   | 34   | 34    |

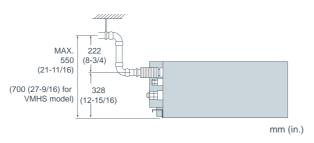
#### One-side maintenance

All maintenance to the unit, including fan inspection and fan motor removal, can be conducted from the inspection opening on one side. (VMH model only)



#### Drain pump (option) ensures up to 550mm (21-11/16in.) for VMH model / 700mm (27-9/16in.) for VMHS model of lift

The introduction of an upper drain pump allows the drain connection to be raised as high as 550mm(21-11/16in.) for VMH model/700mm (27-9/16in.) for VMHS model, allowing more freedom in piping layout design and reducing horizontal piping requirements.



## ► Specifications

|   | 000000   |   |   | PEFY-P40VMH-E  | PEFY-P50VMH-E   | PEFY-P63VMH-E  |   | 1  |  | PEFY-P125VMH-E  | PEFY-P140VM   |
|---|--|---|---|--|---|--|---|--|--|---|---|
| 1 UWEI S  | source   | *1  | kW  | 4.5  | 5.6   | 1-phase<br>7.1   | 8.0   | / 1-phase 220-24                         | JV 60Hz<br>11.2  | 14.0  | 16.0  |
| Cooling   | capacity   | / *1  | BTU/h   | 15,400   | 5.6   | 24,200   | 27,300  | 30,700                                   | 38,200   | 47,800  | 54,600  |
| Cooling   | capacit  |   | kW  | 4.6  | 5.7   | 7.2  | 8.1   | 9.2                                      | 11.4   | 14.2  | 16.3  |
| oooning   | capacity   | *1  | kW  | 5.0  | 6.3   | 8.0  | 9.0   | 10.0                                     | 12.5   | 16.0  | 18.0  |
| Heating   | capacit  | / *1  | BTU/h   | 17,100   | 21,500  | 27,300   | 30,700  | 34.100                                   | 42,700   | 54,600  | 61,400  |
| Power   |  | Cooling   | kW  | 0.19   | ,   | 0.24 / 0.30  | 0.26 / 0.33   | 0.32 / 0.40                              |  | / 0.58  | 0.48 / 0.59   |
| consum  | notion   | Heating   | kW  | 0.19   |   | 0.24 / 0.30  | 0.26 / 0.33   | 0.32 / 0.40                              |  | / 0.58  | 0.48 / 0.59   |
| Cooling A   |  |   |   |  | 1.12 / 1.38   | 1.20 / 1.51  | 1.47 / 1.83   |  | / 2.66   | 2.35 / 2.70   |   |
| Current ~   |  | A   | 0.88 / 1.06   |  | 1.12/1.38   | 1.20 / 1.51  | 1.47 / 1.83   |  | / 2.66   | 2.35 / 2.7  |   |
| Externa   | l finish   |   |   |  |   |  | I   | anized                                   |  |   | 2.007 2.17  |
|   | imension H x W x D mm 380 x 750 x 900 380 x 1,000 x 900 380 x 1,200 x 900  |   |   |  |   |  |   |  |  |   |   |
| Dimension H x W x D in.   |  | in.   | 15  | x 29-9/16 x 35-7/  | /16   | 15 x 39-3/   | 8 x 35-7/16   | 15                                       | 5 x 47-1/4 x 35-7/1  | 16  |   |
|   |  | kg(lbs.)  | 44 (98)   | 45 (   | 100)  | 50 (   | (111)   |  | 70 (155)   |   |   |
| Heat exchanger  |  |   |   |  | Cross   | fin (Aluminum pla  | ate fin and coppe                                       | r tube)                                  |  |   |   |
|   | Type x   | Quantity  |   |  |   | Sirocco fan x 1  |   |  |  | Sirocco fan x 2   |   |
|   | Airflow  | rate  | m³/min  | 10.0-  | 14.0  | 13.5-19.0  | 15.5-22.0   | 18.0-25.0                                | 26.5   | -38.0   | 28.0-40.0   |
| Fan   | Airflow rate<br>(Lo-Hi)  |   | L/s   | 167-   | 233   | 225-317  | 258-367   | 300-417                                  | 442  | -633  | 467-667   |
| an  | ` ´  |   | cfm   | 353-   | 494   | 477-671  | 547-777   | 636-883                                  | 936-   | 1342  | 989-1413  |
|   | External static  | 220V  | Pa  |  |   |  | 50 · 10   | 0 • 200                                  |  |   |   |
|   | pressure *2  | 230,240V  | Pa  |  |   |  | 100 - 1   | 50 · 200                                 |  |   |   |
| Motor   | Туре   |   |   |  |   |  |   | uction motor                             |  |   |   |
|   | Output   | *3  | kW  | 0.0  | )8  | 0.12   | 0.14  | 0.18                                     |  | 0.26  |   |
| Air filter  | (option)   |   |   |  |   | Synth  | ethic fiber unwov                                       | ven cloth filter (lor                    | ig life)   |   |   |
| Refrige   | rant   | Gas<br>(Flare)  | mm(in.)   | ø12.7  | (ø1/2)  |  |   | ø15.88                                   | 8 (ø5/8)   |   |   |
| pipe dia  | ameter   | Liquid<br>(Flare)   | mm(in.)   | ø6.35  | (ø1/4)  |  |   | ø9.52                                    | (ø3/8)   |   |   |
| Field dra   | ain pipe d   | diameter  | mm(in.)   |  |   |  | O.D. 32   | 2 (1-1/4)                                |  |   |   |
| Sound p   | oressure   | 220V  | dB(A)   | 27-  | 34  | 32-38  | 32-39   | 35-41                                    |  | 34-42   |   |
| evel (Lo  | o-Hi) *6   | 230,240V  | dB(A)   | 31-  | 37  | 36-41  | 35-41   | 38-43                                    |  | 38-44   |   |
|   |  |   |   |  |   |  |   |  |  |   |   |
|   |  |   |   | PEFY-P20   | 00VMH-E   | PEFY-P2  | 50VMH-E   | PEFY-P20                                 | 00VMHS-E   | PEFY-P25  | 50VMHS-E  |
| Power s   | source   |   |   | 3-phas   | e 380-415V 50H:   | z / 3N ~ 380-415\  | V 60Hz  | 1-phase                                  | 220-240V 50Hz  | / 1-phase 220-240   | 0V 60Hz   |
| Cooling   | capacity   | , *1  | kW  | 22.  |   |  | 3.0   | 22                                       | .4   | 28  | 3.0   |
| COOMING   | capacity   | -1  | BTU/h   | 76,4   |   | 95,  | 500   | 76,4                                     | 100  | 95,   | 500   |
| Cooling   | capacity   |   | kW  | 22.  |   |  | 3.5   | 22                                       | .8   | 28  | 3.5   |
| Hoating   | capacit  | , *1  | kW  | 25.  |   |  | 1.5   | 25                                       | .0   |   | .5  |
| leating   | Capacit  | <sup>y</sup> *1   | BTU/h   | 85,3   |   | 107  |   | 85,3                                     |  |   | ,500  |
| Power   |  | Cooling   | kW  | 0.99 /   |   |  | / 1.41  |  | 53 *7  |   | 82 *7   |
| consum  | nption   | Heating   | kW  | 0.99 /   |   |  | / 1.41  | 0.6                                      | 63 *7  | 0.  | 82 *7   |
|   | Cooling  | 380-415V  | A   | 1.62 /   | 1.86  | 2.00   | 2.00 / 2.30   |  | -  |   | -   |
| Current   | J  | ~ 220-230-240V A  |   |  |   |  | -   | 3.47-3.32-3.18 *7                        |  | 4.72-4.   | 43-4.14 *7  |
|   | Heating  | 380-415V  | A   | 1.62 /   | 1.86  | 200  | / 2.30  |  |  | -   | -   |
|   | - routing  |   |   |  |   | 2.007  |   |  |  |   |   |
|   |  | 220-230-240V  | A   | -  |   | -  | -   | 3.47-3.3                                 | 32-3.18 *7   |   | 43-4.14 *7  |
|   |  |   |   | _  |   | -<br>nized   | _   | 3.47-3.3                                 | Galvanized   | d steel plate   | 43-4.14 *7  |
| Externa   | al finish  | 220-230-240V  | mm  |  | 470 x 1,25  | -<br>anized<br>50 x 1,120  | -   | 3.47-3.3                                 | Galvanized<br>470 x 1,2  | d steel plate<br>50 x 1,120   | 43-4.14 *7  |
| Externa<br>Dimens   | I finish   | 220-230-240V  | mm<br>in.   |  | 470 x 1,25<br>18-9/16 x 49  | -<br>nized<br>50 x 1,120<br>-1/4 x 44-1/8  | -   |  | Galvanized<br>470 x 1,2<br>18-9/16 x 49  | d steel plate<br>50 x 1,120<br>9-1/4 x 44-1/8   |   |
| Externa<br>Dimens<br>Net wei  | ion H x  | 220-230-240V<br>W x D   | mm  |  | 470 x 1,25<br>18-9/16 x 49<br>100 (   | -<br>nized<br>50 x 1,120<br>-1/4 x 44-1/8<br>(221)   | -   | 97 (2                                    | Galvanized<br>470 x 1,2<br>18-9/16 x 49<br>214)  | d steel plate<br>50 x 1,120<br>9-1/4 x 44-1/8<br>100  | (221)   |
| Externa<br>Dimens<br>Net wei<br>Heat ex   | ion H x<br>ght<br>changer  | 220-230-240V<br>W x D   | mm<br>in.<br>kg(lbs.)   |  | 470 x 1,25<br>18-9/16 x 49<br>100 (<br>fin (Aluminum pla  | -<br>50 x 1,120<br>-1/4 x 44-1/8<br>(221)<br>ate fin and copped                            | -   | 97 (2                                    | Galvanized<br>470 x 1,2<br>18-9/16 x 49<br>214)<br>fin (Aluminum pl  | d steel plate<br>50 x 1,120<br>9-1/4 x 44-1/8<br>100<br>ate fin and copper  | (221)   |
| Externa<br>Dimens<br>Net wei<br>Heat ex   | ion H x  | 220-230-240V<br>W x D   | mm<br>in.<br>kg(lbs.)   | Cross  | 470 x 1,25<br>18-9/16 x 49<br>100 (<br>fin (Aluminum pla<br>Sirocco   | -<br>  | r tube)   | 97 (2<br>Cross                           | Galvanized<br>470 x 1,2<br>18-9/16 x 49<br>214)<br>fin (Aluminum pl<br>Sirocco   | d steel plate<br>50 x 1,120<br>9-1/4 x 44-1/8<br>100<br>ate fin and copper<br>o fan x 2   | (221)<br>- tube)  |
| Externa<br>Dimens<br>Net wei<br>Heat ex   | al finish<br>ion H x<br>ight<br>changer<br>Type x i  | 220-230-240V<br>W x D<br>Quantity   | mm<br>in.<br>kg(lbs.)<br>m³/min   | Cross<br>58.   | 470 x 1,25<br>18-9/16 x 49<br>100 (<br>fin (Aluminum pla<br>Sirocco<br>0  | -<br>anized<br>50 x 1,120<br>-1/4 x 44-1/8<br>(221)<br>ate fin and copper<br>fan x 2<br>72 | -<br>r tube)<br>2.0                                     | 97 (2                                    | Galvanized<br>470 x 1,2<br>18-9/16 x 49<br>214)<br>fin (Aluminum pl<br>Sirocco   | d steel plate<br>50 x 1,120<br>0-1/4 x 44-1/8<br>100<br>ate fin and copper<br>o fan x 2   | (221)<br>• tube)<br>–   |
| Externa<br>Dimens<br>Net wei<br>Heat ex   | ion H x<br>ght<br>changer  | 220-230-240V<br>W x D<br>Quantity   | mm<br>in.<br>kg(lbs.)<br>m³/min<br>L/s  | Cross<br>58.<br>96   | 470 x 1,25<br>18-9/16 x 49<br>100 (<br>fin (Aluminum pla<br>Sirocco<br>0<br>7   |  | -<br>r tube)<br>2.0                                     | 97 (2<br>Cross                           | Galvanized<br>470 x 1,2<br>18-9/16 x 49<br>214)<br>fin (Aluminum pl<br>Sirocco   | d steel plate<br>50 x 1,120<br>-1/4 x 44-1/8<br>100<br>ate fin and copper<br>o fan x 2<br>  | (221)<br>- tube)<br>  |
| Externa<br>Dimens<br>Net wei<br>Heat ex   | al finish<br>ion H x<br>ight<br>changer<br>Type x i  | 220-230-240V<br>W x D<br>Quantity   | mm<br>in.<br>kg(lbs.)<br>m³/min<br>L/s<br>cfm   | Cross<br>58.<br>96<br>204  | 470 x 1,25<br>18-9/16 x 49<br>100 (<br>fin (Aluminum pla<br>Sirocco<br>0<br>7<br>8  |  | - r tube)<br>2.0<br>200<br>243                          | 97 (2<br>Cross<br>                       | Galvanized<br>470 x 1,2<br>18-9/16 x 49<br>214)<br>fin (Aluminum pl<br>Sirocco   | d steel plate<br>50 x 1,120<br>-1/4 x 44-1/8<br>100<br>ate fin and copper<br>o fan x 2<br>  | (221)<br>• tube)<br>-<br>-<br>-   |
| Externa<br>Dimens<br>Net wei<br>Heat ex   | al finish<br>ion H x<br>ight<br>changer<br>Type x i  | 220-230-240V<br>W x D<br>Quantity<br>rate   | mm<br>in.<br>kg(lbs.)<br>m³/min<br>L/s<br>cfm<br>m³/min   | Cross<br>58.<br>96<br>204  | 470 x 1,25<br>18-9/16 x 49<br>100 (<br>fin (Aluminum pla<br>Sirocco<br>0<br>7<br>8  |  | -<br>r tube)<br>2.0                                     | 97 (ź<br>Cross<br>–<br>–<br>–<br>50.0-61 | Galvanized<br>470 x 1,2<br>18-9/16 x 49<br>214)<br>fin (Aluminum pl<br>Sirocco<br>-<br>-<br>-<br>-<br>-<br>-<br>-  | d steel plate<br>50 x 1,120<br>-1/4 x 44-1/8<br>100<br>ate fin and copper<br>o fan x 2<br>-<br>-<br>-<br>-<br>-<br>-<br>-<br>-<br>-<br>-<br>-<br>-<br>-                 | (221)<br>- tube)<br>-<br>-<br>-<br>1.0-84.0   |
| Externa<br>Dimens<br>Net wei<br>Heat ex   | al finish<br>ion H x<br>ight<br>changer<br>Type x i  | 220-230-240V<br>W x D<br>Quantity   | mm<br>in.<br>kg(lbs.)<br>m³/min<br>L/s<br>cfm<br>m³/min<br>L/s  | Cross<br>58.<br>96<br>204<br>—   | 470 x 1,25<br>18-9/16 x 49<br>100 (<br>fin (Aluminum pla<br>Sirocco<br>0<br>7<br>8  |  | -<br>r tube)<br>2.0<br>200<br>443<br>-                  | 97 (2<br>Cross<br>                       | Galvanized<br>470 x 1,2<br>18-9/16 x 49<br>214)<br>fin (Aluminum pl<br>Sirocco   | 1 steel plate<br>50 x 1,120<br>-1/4 x 44-1/8<br>100<br>ate fin and copper<br>o fan x 2<br>  | (221)<br>- tube)<br>-<br>-<br>-<br>1.0-84.0<br>33-1400  |
| Externa<br>Dimens<br>Net wei<br>Heat ex   | al finish<br>ion H x<br>ight<br>changer<br>Type x i  | 220-230-240V<br>W x D<br>Quantity<br>rate   | mm<br>in.<br>kg(lbs.)<br>m <sup>3</sup> /min<br>L/s<br>cfm<br>m <sup>3</sup> /min<br>L/s<br>cfm                   | Cross<br>58.<br>96<br>204  | 470 x 1,25<br>18-9/16 x 49<br>100 (<br>fin (Aluminum pla<br>Sirocco<br>0<br>7<br>8  |  | -<br>r tube)<br>2.0<br>200<br>443<br>-                  | 97 (ź<br>Cross<br>–<br>–<br>–<br>50.0-61 | Galvanized<br>470 x 1,2<br>18-9/16 x 49<br>214)<br>fin (Aluminum pl<br>Sirocco   | 1 steel plate<br>50 x 1,120<br>-1/4 x 44-1/8<br>100<br>ate fin and copper<br>o fan x 2<br>  | (221)<br>- tube)<br>-<br>-<br>-<br>1.0-84.0   |
| Externa<br>Dimens<br>Net wei<br>Heat ex   | al finish<br>ion H x<br>ght<br>cchanger<br>Type x (<br>Airflow   | 220-230-240V<br>W x D<br>Quantity<br>rate<br>Lo-Mid-Hi<br>380V  | mm<br>in.<br>kg(lbs.)<br>m³/min<br>L/s<br>cfm<br>m³/min<br>L/s<br>cfm<br>Pa                                       | Cross<br>58.<br>96<br>204<br>—   | 470 x 1,25<br>18-9/16 x 49<br>100 i<br>fin (Aluminum pla<br>Sirocco<br>0<br>7<br>8<br>8   |  | -<br>r tube)<br>2.0<br>200<br>443<br>-                  | 97 (2<br>Cross<br>                       | Galvanized<br>470 x 1,2<br>18-9/16 x 49<br>214)<br>fin (Aluminum pl<br>Sirocco<br>Sirocco<br>0.<br>0.<br>0.<br>7.1200<br>54-2542   | d steel plate<br>50 x 1,120<br>-1/4 x 44-1/8<br>100<br>ate fin and copper<br>of an x 2<br>  | (221)<br>- tube)<br>-<br>-<br>-<br>1.0-84.0<br>33-1400  |
| Externa<br>Dimens<br>Net wei<br>Heat ex   | al finish<br>ion H x<br>ght<br>cchanger<br>Type x (<br>Airflow<br>External static  | 220-230-240V<br>W x D<br>Quantity<br>rate   | mm<br>in.<br>kg(lbs.)<br>m³/min<br>L/s<br>cfm<br>m³/min<br>L/s<br>cfm<br>Pa<br>Pa                                 | Cross<br>58.<br>96<br>204<br>—   | 470 x 1,25<br>18-9/16 x 49<br>100 0<br>fin (Aluminum pla<br>Sirocco<br>0<br>7<br>8<br>110<br>130  |  | -<br>r tube)<br>2.0<br>200<br>443<br>-                  | 97 (2<br>Cross<br>                       | Galvanized<br>470 x 1,2<br>18-9/16 x 49<br>214)<br>fin (Aluminum pl<br>Sirocco<br>   | d steel plate<br>50 x 1,120<br>-1/4 x 44-1/8<br>100<br>ate fin and copper<br>5 fan x 2<br>5 fan x 2<br>   | (221)<br>- tube)<br>-<br>-<br>-<br>-<br>-<br>-<br>-<br>-<br>-<br>-<br>-<br>-<br>-   |
| Externa<br>Dimens<br>Net wei<br>Heat ex   | al finish<br>ion H x<br>ght<br>cchanger<br>Type x (<br>Airflow   | 220-230-240V<br>W x D<br>Quantity<br>rate<br>Lo-Mid-Hi<br>380V  | mm<br>in.<br>kg(lbs.)<br>L/s<br>cfm<br>m³/min<br>L/s<br>cfm<br>Pa<br>Pa<br>Pa<br>Pa<br>Pa                         | Cross<br>58.<br>96<br>204<br>—   | 470 x 1,25<br>18-9/16 x 49<br>100 0<br>fin (Aluminum pla<br>Sirocco<br>0<br>7<br>8<br>110<br>130  |  | -<br>r tube)<br>2.0<br>200<br>443<br>-                  | 97 (2<br>Cross<br>                       | Galvanized<br>470 x 1,2<br>18-9/16 x 49<br>214)<br>fin (Aluminum pl<br>Sirocco<br>-<br>-<br>-<br>-<br>-<br>-<br>-<br>-<br>-<br>-<br>-<br>-<br>-<br>-<br>-<br>-<br>-<br>- | d steel plate<br>50 x 1,120<br>-1/4 x 44-1/8<br>100<br>ate fin and copper<br>o fan x 2<br>58.0-71<br>967-118<br>2048-25<br>-<br>-<br>50-<200>-<250>                     | (221)<br>- tube)<br>-<br>-<br>-<br>.0-84.0<br>33-1400<br>007-2966<br>*8   |
| Externa<br>Dimens<br>Net wei<br>Heat ex   | al finish<br>ion H x<br>ght<br>cchanger<br>Type x (<br>Airflow (<br>External static<br>pressure  | 220-230-240V<br>W x D<br>Quantity<br>rate<br>Lo-Mid-Hi<br>380V  | mm<br>in.<br>kg(lbs.)<br>m³/min<br>L/s<br>cfm<br>m³/min<br>L/s<br>cfm<br>Pa<br>Pa                                 | Cross<br>58.<br>96<br>204<br>—   | 470 x 1,25<br>18-9/16 x 49<br>100 (<br>fin (Aluminum pla<br>Sirocco<br>0<br>7<br>8<br>110<br>130<br>-   |  | -<br>r tube)<br>2.0<br>200<br>443<br>-                  | 97 (2<br>Cross<br>                       | Galvanized<br>470 x 1,2<br>18-9/16 x 49<br>214)<br>fin (Aluminum pl<br>Sirocco<br>-<br>-<br>-<br>-<br>-<br>-<br>-<br>-<br>-<br>-<br>-<br>-<br>-<br>-<br>-<br>-<br>-<br>- | d steel plate<br>50 × 1,120<br>-1/4 × 44-1/8<br>100<br>ate fin and copper<br>o fan x 2<br>58.0-71<br>967-111<br>2048-25<br>-<br>-<br>50-<200>-<250><br>3.3<20.4>-<25.5> | (221)<br>- tube)<br>-<br>-<br>-<br>.0-84.0<br>33-1400<br>007-2966<br>*8   |
| Externa<br>Dimens<br>Net wei<br>Heat ex   | al finish<br>iion H x<br>ght<br>cchanger<br>Type x (<br>Airflow<br>External static<br>pressure<br>Type   | 220-230-240V<br>W x D<br>Quantity<br>rate<br>Lo-Mid-Hi<br>380V  | mm<br>in.<br>kg(lbs.)<br>L/s<br>cfm<br>m³/min<br>L/s<br>cfm<br>Pa<br>Pa<br>Pa<br>Pa<br>Pa<br>mmH <sub>2</sub> O   | Cross<br>58.<br>96<br>204<br>  | 470 x 1,25<br>18-9/16 x 49<br>100 (<br>fin (Aluminum pla<br>Sirocco<br>0<br>7<br>8<br>110<br>130<br>-<br>-<br>3-phase ind   |  | -<br>r tube)<br>2.0<br>00<br>43<br>-<br>-               | 97 (2<br>Cross<br>                       | Galvanizec<br>470 x 1,2<br>18-9/16 x 49<br>214)<br>fin (Aluminum pl<br>Sirocco<br>-<br>-<br>-<br>-<br>-<br>-<br>-<br>-<br>-<br>-<br>-<br>-<br>-<br>-<br>-<br>-<br>-<br>- | d steel plate<br>50 x 1,120<br>-1/4 x 44-1/8<br>100<br>ate fin and copper<br>o fan x 2<br>  | (221)<br>- tube)<br>-<br>-<br>-<br>-<br>-<br>-<br>-<br>-<br>-<br>-<br>-<br>-<br>-   |
| Externa<br>Dimens<br>Net wei<br>Heat ex<br>Fan  | al finish<br>ion H x<br>ght<br>cchanger<br>Type x (<br>Airflow<br>External static<br>pressure<br>Type<br>Output  | 220-230-240V<br>W x D<br>Quantity<br>rate<br>Lo-Mid-Hi<br>380V  | mm<br>in.<br>kg(lbs.)<br>L/s<br>cfm<br>m³/min<br>L/s<br>cfm<br>Pa<br>Pa<br>Pa<br>Pa<br>Pa                         | Cross<br>58.<br>96<br>204<br><br><br>  | 470 x 1,25<br>18-9/16 x 49<br>100 (<br>fin (Aluminum pla<br>Sirocco<br>0<br>7<br>8<br>8<br>110<br>130<br>-<br>-<br>3-phase ind<br>6 *5  |  | - r tube)<br>2.0<br>000<br>443<br><br><br><br><br>08 *5 | 97 (2<br>Cross<br>                       | Galvanized<br>470 x 1,2<br>18-9/16 x 49<br>214)<br>fin (Aluminum pl<br>Siroccc<br>-<br>-<br>-<br>-<br>-<br>-<br>-<br>-<br>-<br>-<br>-<br>-<br>-<br>-<br>-<br>-<br>-<br>- | d steel plate<br>50 × 1,120<br>-1/4 × 44-1/8<br>100<br>ate fin and copper<br>of an x 2<br>  | (221)<br>- tube)<br>-<br>-<br>-<br>-<br>-<br>-<br>-<br>-<br>-<br>-<br>-<br>-<br>-   |
| Externa<br>Dimens<br>Net wei<br>Heat ex<br>Fan  | al finish<br>iion H x<br>ght<br>cchanger<br>Type x (<br>Airflow<br>External static<br>pressure<br>Type   | 220-230-240V<br>W × D<br>Quantity<br>rate<br>Lo-Mid-Hi<br>380V<br>400,415V<br>Gas   | mm<br>in.<br>kg(lbs.)<br>L/s<br>cfm<br>m³/min<br>L/s<br>cfm<br>Pa<br>Pa<br>Pa<br>Pa<br>Pa<br>Pa<br>Ra<br>Pa<br>KW | Cross<br>58.<br>96<br>204<br><br>-<br>-<br>-<br>-<br>-<br>-<br>-<br>-<br>-<br>-<br>-<br>-<br>-<br>-<br>-<br>-<br>- | 470 x 1,25<br>18-9/16 x 49<br>100 (<br>fin (Aluminum pla<br>Sirocco<br>0<br>7<br>8<br>110<br>130<br>-<br>-<br>3-phase ind<br>6 *5<br>ethic fiber unwov                          |  | - r tube)<br>2.0<br>200<br>43<br>                       | 97 (2<br>Cross<br>                       | Galvanized<br>470 x 1,2<br>18-9/16 x 49<br>214)<br>fin (Aluminum pl<br>Siroccc<br>   | d steel plate<br>50 × 1,120<br>-1/4 × 44-1/8<br>100<br>ate fin and copper<br>o fan x 2<br>  | (221)<br>tube)<br>-<br>-<br>-<br>.0-84.0<br>33-1400<br>07-2966<br>*8<br>*8<br>*8<br>*8<br>87<br><a a="" of="" recommentary="" refere="" secon<="" second="" td="" the=""></a> |
| Externa<br>Dimens<br>Net wei<br>Heat ex<br>Fan<br>Motor<br>Air filter<br>Refriger                     | al finish<br>ion H x<br>ght<br>cchanger<br>Type x<br>Airflow<br>Extensi staic<br>pressure<br>Type<br>Output<br>(option)<br>rant  | 220-230-240V<br>W × D<br>Quantity<br>rate<br>Lo-Mid-Hi<br>380V<br>400,415V  | mm<br>in.<br>kg(lbs.)   | Cross<br>58.<br>96<br>204<br><br><br>  | 470 x 1,25<br>18-9/16 x 49<br>100 i<br>fin (Aluminum pla<br>Sirocco<br>0<br>7<br>8<br>110<br>130<br>-<br>3-phase ind<br>6 *5<br>ethic fiber unwov<br>(ø3/4)                     |  | - r tube)<br>2.0<br>200<br>43<br>                       | 97 (2<br>Cross<br>                       | Galvanizec<br>470 x 1,2<br>18-9/16 x 45<br>214)<br>fin (Aluminum pl<br>Siroccc<br>   | d steel plate           50 × 1,120           >-1/4 × 44-1/8           100           ate fin and copper           of an x 2  | (221)<br>tube)<br>-<br>-<br>-<br>.0-84.0<br>33-1400<br>07-2966<br>*8<br>*8<br>*8<br>*8<br>87<br>(are recommer   |
| Externa<br>Dimens<br>Net wei<br>Heat ex<br>Fan<br>Motor<br>Air filter<br>Refriger                     | al finish<br>ion H x<br>ght<br>cchanger<br>Type x<br>Airflow<br>Extensi staic<br>pressure<br>Type<br>Output<br>(option)<br>rant  | 220-230-240V<br>W x D<br>Quantity<br>rate<br>Lo-Mid-Hi<br>380V<br>400,415V<br>Gas<br>(Brazing)<br>Liquid                          | mm<br>in.<br>kg(lbs.)<br>L/s<br>cfm<br>m³/min<br>L/s<br>cfm<br>Pa<br>Pa<br>Pa<br>Pa<br>Pa<br>Pa<br>Ra<br>Pa<br>KW | Cross<br>58.<br>96<br>204<br><br>-<br>-<br>-<br>-<br>-<br>-<br>-<br>-<br>-<br>-<br>-<br>-<br>-<br>-<br>-<br>-<br>- | 470 x 1,25<br>18-9/16 x 49<br>100 i<br>fin (Aluminum pla<br>Sirocco<br>0<br>7<br>8<br>110<br>130<br>-<br>3-phase ind<br>6 *5<br>ethic fiber unwov<br>(ø3/4)                     |  | - r tube)<br>2.0<br>200<br>43<br>                       | 97 (2<br>Cross<br>                       | Galvanizec<br>470 x 1,2<br>18-9/16 x 45<br>214)<br>fin (Aluminum pl<br>Siroccc<br>   | d steel plate<br>50 × 1,120<br>-1/4 × 44-1/8<br>100<br>ate fin and copper<br>o fan x 2<br>  | (221)<br>tube)<br>-<br>-<br>-<br>.0-84.0<br>33-1400<br>07-2966<br>*8<br>*8<br>*8<br>*8<br>87<br>(are recommer   |
| Externa<br>Dimens<br>Net wei<br>Heat externa<br>Heat externa<br>Fan<br>Motor<br>Refrigere<br>Dipe dia | al finish<br>ion H x<br>ght<br>changer<br>Type x (<br>Airflow f<br>Eteral static<br>pressure<br>Type<br>Output<br>(option)<br>rant<br>ameter                           | 20-23-240V<br>W x D<br>Quantity<br>rate<br>Lo-Mid-Hi<br>380V<br>400,415V<br>Gas<br>(Brazing)<br>Liquid<br>(Brazing)               | mm<br>in.<br>kg(lbs.)<br>m³/min<br>L/s<br>cfm<br>Pa<br>Pa<br>Pa<br>Pa<br>Pa<br>mH <sub>2</sub> O<br>kW<br>mm(in.) | Cross<br>58.<br>96<br>204<br><br>-<br>-<br>-<br>-<br>-<br>-<br>-<br>-<br>-<br>-<br>-<br>-<br>-<br>-<br>-<br>-<br>- | 470 x 1,25<br>18-9/16 x 49<br>100 i<br>fin (Aluminum pla<br>Sirocco<br>0<br>7<br>8<br>110<br>130<br>-<br>3-phase ind<br>6 *5<br>ethic fiber unwov<br>(ø3/4)                     |  | - r tube)<br>2.0<br>200<br>43<br>                       | 97 (2<br>Cross<br>                       | Galvanized<br>470 x 1,2<br>18-9/16 x 45<br>214)<br>fin (Aluminum pl<br>Sirocco<br>   | d steel plate<br>50 × 1,120<br>-1/4 × 44-1/8<br>100<br>ate fin and copper<br>of an x 2<br>  | (221)<br>tube)<br>-<br>-<br>-<br>.0-84.0<br>33-1400<br>07-2966<br>*8<br>*8<br>*8<br>*8<br>87<br>(are recommer   |
| Externa<br>Dimens<br>Net wei<br>Heat externa<br>Fan<br>Motor<br>Air filter<br>Refrigere<br>diat       | al finish<br>ion H x<br>ght<br>cchanger<br>Type x<br>Airflow (<br>Airflow (<br>Etemal static<br>pressure<br>Type<br>Output<br>(option)<br>rant<br>ameter<br>ain pipe o | 220-230-240V<br>W x D<br>Quantity<br>rate<br>Lo-Mid-Hi<br>380V<br>400,415V<br>Gas<br>(Brazing)<br>Liquid<br>(Brazing)<br>liameter | mm<br>in.<br>kg(lbs.)   | Cross<br>58.<br>96<br>204<br><br><br><br><br>0.7<br>Synth<br>ø19.05  | 470 x 1,25<br>18-9/16 x 49<br>100 1<br>fin (Aluminum pla<br>Sirocco<br>0<br>7<br>8<br>110<br>130<br>-<br>3-phase ind<br>6 *5<br>ethic fiber unwov<br>(ø3/4)<br>Ø9.52<br>O.D. 32 |  | - (07/8)  | 97 (2<br>Cross<br>                       | Galvanizec<br>470 x 1,2<br>18-9/16 x 45<br>214)<br>fin (Aluminum pl<br>Siroccc<br><br><br><br><br><br><br><br><br>   | d steel plate<br>50 × 1,120<br>-1/4 × 44-1/8<br>100<br>ate fin and copper<br>o fan x 2<br>  | (221)<br>tube)<br>-<br>-<br>-<br>.0-84.0<br>33-1400<br>07-2966<br>*8<br>*8<br>*8<br>*8<br>87<br>(are recommer   |
| Externa<br>Dimens<br>Net wei<br>Heat ex-<br>Fan<br>Motor<br>Refriger<br>pipe dia                      | al finish<br>ion H x<br>ght<br>cchanger<br>Type x<br>Airflow (<br>Airflow (<br>Etemal static<br>pressure<br>Type<br>Output<br>(option)<br>rant<br>ameter<br>ain pipe o | 20-23-240V<br>W x D<br>Quantity<br>rate<br>Lo-Mid-Hi<br>380V<br>400,415V<br>Gas<br>(Brazing)<br>Liquid<br>(Brazing)               | mm<br>in.<br>kg(lbs.)<br>m³/min<br>L/s<br>cfm<br>Pa<br>Pa<br>Pa<br>Pa<br>Pa<br>mH <sub>2</sub> O<br>kW<br>mm(in.) | Cross<br>58.<br>96<br>204<br><br><br><br><br>0.7<br>Synth<br>ø19.05<br>42 (110Pa) /                                | 470 x 1,25<br>18-9/16 x 49<br>100 (<br>fin (Aluminum pla<br>Sirocco<br>0<br>7<br>8<br>110<br>130<br>-<br>-<br>-<br>-<br>-<br>-<br>-<br>-<br>-<br>-<br>-<br>-<br>-               |  | - r tube)<br>2.0<br>200<br>43<br>                       | 97 (2<br>Cross<br>                       | Galvanized<br>470 x 1,2<br>18-9/16 x 45<br>214)<br>fin (Aluminum pl<br>Siroccc<br>-<br>-<br>-<br>-<br>-<br>-<br>-<br>-<br>-<br>-<br>-<br>-<br>-                          | d steel plate<br>50 × 1,120<br>-1/4 × 44-1/8<br>100<br>ate fin and copper<br>of an x 2<br>  | (221)<br>- tube)<br>-<br>-<br>-<br>-<br>-<br>-<br>-<br>-<br>-<br>-<br>-<br>-<br>-   |

| Field drain pipe        | diameter  | mm(in.) | O.D. 32                    | 2 (1-1/4)      |
|-------------------------|-----------|---------|----------------------------|----------------|
| Cound processing        | 380V      | dB(A)   | 42 (110Pa) / 45 (220Pa) *6 | 50 (110Pa) / 5 |
| Sound pressure<br>level | 400,415V  | dB(A)   | 44 (130Pa) / 47 (260Pa) *6 | 52 (130Pa) / 5 |
| level                   | Lo-Mid-Hi | dB(A)   | -                          | -              |

#### Notes:

\*1 Cooling/heating capacity indicates the maximum value at operation under the following condition. Cooling Indoor: 27°C(81°F)DB/19°C(86°F)WB, Outdoor: 35°C(95°F)DB
 Heating Indoor: 20°C(85°F)DB Outdoor: 7°C(45°F)DB(6°C(43°F)WB
 \*2 The external static pressure is set to 100Pa (at 220V) /150Pa (at 230, 240V) at factory shipment.
 \*3 The value are that at 240V.
 \*4 The external static pressure is set to 220Pa (at 380V) /260Pa (at 400, 415V) at factory shipment.
 \*5 The value are that at 415V.

Indoor unit

\*6 It is measured in anechoic room.
\*7 The values are measured at the rated external static pressure.

 \*8 The rated external static pressure is shown without < >. The factory setting is the rated value.
 \*9 It is measured at the rated external static pressure in anechoic room. \*10 Reference data under condition of Indoor 27°C(81°F)DB/19.5°C(67°F)WB, Outdoor 35°C(95°F)DB

## **INDOOR UNIT Fresh Air Intake Type**

## PEFY-P VMH-E-F



## Fresh Air Intake

Fresh Air can be taken in with temperature control. Ideal for Offices, Stores and Restaurants.



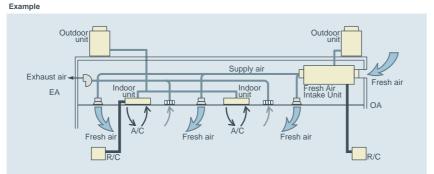
#### The Fresh Air intake indoor unit can be installed in any place.

Fresh Air can be taken in with temperature control.

Outside air will be cooled down or heated up to supply it to the room, and this reduces the air conditioning load in a room. High-capacity humidifier will keep room air moist and comfortable during heating. \*Supply air temperature control cannot be used.

> Office, Lobby, Workshop, Restroom, Nursing home, Smoking corner, Kitchen in restaurant

\* Limits of capacity connectable to outdoor unit Max. 110% of outdoor unit capacity, excepting heating at outdoor temperature of less than -5°C(23°F) (100%).



#### < Note>

Fan remains in operation during Thermo-OFF. Using this model with other type of indoor unit is recommended to prevent cold draft which is caused due to intaken fresh air.

## ► Specifications

| Davis  |  |  |   | PEFY-P80VMH-E-F   | PEFY-P140VMH-E-F  |  |  |
|--|--|--|---|---|---|--|--|
| owers  | source   | **   | 1444  | 1-phase 220-240V 50Hz   |   |  |  |
| Cooling  | capacit  | *1<br>V *1   | kW  | 9.0   | 16.0  |  |  |
| 5  | ,  | . 1  | BTU/h   | 30,700  | 54,600  |  |  |
| Heating  | a capacit  | ×1   | kW  | 8.5   | 15.1  |  |  |
|  | Joapaon  |  | BTU/h   | 29,000  | 51,500  |  |  |
| Power  |  | Cooling  | kW  | 0.16 / 0.21   | 0.29 / 0.33   |  |  |
| consur   | nption   | Heating  | kW  | 0.16 / 0.21   | 0.29 / 0.33   |  |  |
| <u> </u>   |  | Cooling  | A   | 0.67 / 0.91   | 1.24 / 1.48   |  |  |
| Current  | t  | Heating  | A   | 0.67 / 0.91   | 1.24 / 1.48   |  |  |
| External finish  |  |  |   | anized  |   |  |  |
| Dimens   |  |  |   | 380 x 1000 x 900  | 380 x 1200 x 900  |  |  |
| HxW  |  |  | mm(in.)   | (15 x 39-3/8 x 35-7/16)   | (15 x 47-1/4 x 35-7/16)   |  |  |
| Net wei  |  |  | kg(lbs.)  | 50 (111)  | 70 (155)  |  |  |
|  |  |  | Kg(iDS.)  |   |   |  |  |
| neal ex  | kchanger   |  |   |   | ate fin and copper tube)  |  |  |
|  | Type x   | Quantity   |   | Sirocco fan x 1   | Sirocco fan x 2   |  |  |
|  |  |  | m³/min  | 9.0   | 18.0  |  |  |
|  | Airflow  | rate   | L/s   | 150   | 300   |  |  |
| Fon  |  | [  | cfm   | 318   | 636   |  |  |
| Fan  | External   | 208V   | Pa  | 35 - 85 - 170   | 35 - 85 - 170   |  |  |
|  | static   | 220V   | Pa  | 40 - 115 - 190  | 50 - 115 - 190  |  |  |
|  | pressure   | 230V   | Pa  | 50 - 130 - 210  | 60 - 130 - 220  |  |  |
|  | (Lo-Mid-Hi)  |  | Pa  | 80 - 170 - 220  | 100 - 170 - 240   |  |  |
|  | Туре   | 2.51   | . a   |   |   |  |  |
| Motor  | Output   |  | kW  | 0.09 (at 220V)  | 0.14 (at 220V)  |  |  |
| A :- /**   |  |  | KVV   | · · · · ·   |   |  |  |
| AIR filter   | r (option)   |  |   | Synthetic tiber unwov   | en cloth filter (long life)   |  |  |
|  |  | Gas  | mm(in.)   | ø15.88  | 3 (95/8)  |  |  |
| Refrige  | rant   | (Flare)  |   | 510.00  | (2010)  |  |  |
| pipe dia   | ameter   | Liquid   |   | ~0.50   | (-2/0)  |  |  |
|  |  | (Flare)  |   | Ø9.52   | (ø3/8)  |  |  |
| Field drain pipe   |  | diameter   | mm(in.)   | 0.D.32  | (1-1/4)   |  |  |
| FIEID DI   |  |  | (,  |   |   |  |  |
|  |  | 208, 220V  | dB(A)   | 27 - 38 - 43  | 28 - 38 - 43  |  |  |
| Sound pre  | ssure level  |  | dB(A)<br>dB(A)  |   | 28 - 38 - 43<br>34 - 43 - 45  |  |  |
|  | ssure level  | 208, 220V<br>230, 240V   | dB(A)<br>dB(A)  | 27 - 38 - 43<br>33 - 43 - 45  | 28 - 38 - 43<br>34 - 43 - 45  |  |  |
| Sound pre  | ssure level  |  |   |   |   |  |  |
| Sound pre<br>(Lo-Mid-Hi  | ssure level  |  | dB(A)   | 33 - 43 - 45<br>PEFY-P200VMH-E-F<br>3-phase 380-415V 50H  | 34 - 43 - 45<br>PEFY-P250 VMH-E-F<br>z / 3N~ 380-415V 60Hz  |  |  |
| Sound pre<br>(Lo-Mid-Hi<br>Power   | i) *2  | 230, 240V  | dB(A)<br>kW   | 33 - 43 - 45<br>PEFY-P200VMH-E-F<br>3-phase 380-415V 50H<br>22.4  | 34 - 43 - 45<br>PEFY-P250 VMH-E-F<br>z / 3N~ 380-415V 60Hz<br>28.0  |  |  |
| Sound pre<br>(Lo-Mid-Hi<br>Power   | i) *2  | 230, 240V  | dB(A)   | 33 - 43 - 45<br>PEFY-P200VMH-E-F<br>3-phase 380-415V 50H  | 34 - 43 - 45<br>PEFY-P250 VMH-E-F<br>z / 3N~ 380-415V 60Hz  |  |  |
| Sound pre<br>(Lo-Mid-Hi<br>Power<br>Cooling  | source<br>g capac  | 230, 240V  | dB(A)<br>kW   | 33 - 43 - 45<br>PEFY-P200VMH-E-F<br>3-phase 380-415V 50H<br>22.4  | 34 - 43 - 45<br>PEFY-P250 VMH-E-F<br>z / 3N~ 380-415V 60Hz<br>28.0  |  |  |
| Sound pre<br>(Lo-Mid-Hi<br>Power<br>Cooling  | i) *2  | 230, 240V  | dB(A)<br>kW<br>BTU/h  | 33 - 43 - 45<br>PEFY-P200VMH-E-F<br>3-phase 380-415V 50H<br>22.4<br>76,400  | 34 - 43 - 45<br>PEFY-P250 VMH-E-F<br>z / 3N~ 380-415V 60Hz<br>28.0<br>95,500  |  |  |
| Sound pre<br>(Lo-Mid-Hi<br>Power<br>Cooling<br>Heating   | source<br>g capac<br>g capac   | 230, 240V<br>ity<br>ity  | dB(A)<br>kW<br>BTU/h<br>kW<br>BTU/h   | 33 - 43 - 45<br>PEFY-P200VMH-E-F<br>3-phase 380-415V 50H<br>22.4<br>76,400<br>21.2<br>72,300  | 34 - 43 - 45<br>PEFY-P250 VMH-E-F<br>z / 3N~ 380-415V 60Hz<br>28.0<br>95,500<br>26.5<br>90,400  |  |  |
| Sound pre<br>(Lo-Mid-Hi<br>Power<br>Cooling<br>Heating<br>Power  | ssure level<br>i) *2<br>source<br>g capac<br>g capac   | 230, 240V<br>ity<br>ity<br>Cooling   | dB(A)<br>kW<br>BTU/h<br>kW<br>BTU/h<br>kW   | 33 - 43 - 45<br>PEFY-P200VMH-E-F<br>3-phase 380-415V 50H<br>22.4<br>76,400<br>21.2<br>72,300<br>0.34 / 0.42   | 34 - 43 - 45<br>PEFY-P250 VMH-E-F<br>z / 3N~ 380-415V 60Hz<br>28.0<br>95,500<br>26.5<br>90,400<br>0.39 / 0.50   |  |  |
| Sound pre<br>(Lo-Mid-Hi<br>Power<br>Cooling<br>Heating<br>Power  | source<br>g capac<br>g capac   | 230, 240V<br>ity<br>ity<br>Cooling<br>Heating  | dB(A)<br>kW<br>BTU/h<br>kW<br>BTU/h<br>kW<br>kW   | 33 - 43 - 45<br>PEFY-P200VMH-E-F<br>3-phase 380-415V 50H<br>22.4<br>76,400<br>21.2<br>72,300<br>0.34 / 0.42<br>0.34 / 0.42  | 34 - 43 - 45<br>PEFY-P250 VMH-E-F<br>z / 3N~ 380-415V 60Hz<br>28.0<br>95,500<br>26.5<br>90,400<br>0.39 / 0.50<br>0.39 / 0.50  |  |  |
| Sound pre<br>(Lo-Mid-Hi<br>Power<br>Cooling<br>Heating<br>Power  | ssure level<br>i) *2<br>source<br>g capac<br>g capac<br>mption   | 230, 240V<br>ity<br>ity<br>Cooling<br>Heating<br>Cooling   | dB(A)<br>kW<br>BTU/h<br>kW<br>BTU/h<br>kW<br>kW<br>A  | 33 - 43 - 45<br>PEFY-P200VMH-E-F<br>3-phase 380-415V 50H<br>22.4<br>76,400<br>21.2<br>72,300<br>0.34 / 0.42<br>0.34 / 0.42<br>0.58 / 0.74   | 34 - 43 - 45<br>PEFY-P250 VMH-E-F<br>z / 3N~ 380-415V 60Hz<br>28.0<br>95,500<br>26.5<br>90,400<br>0.39 / 0.50<br>0.39 / 0.50<br>0.68 / 0.86   |  |  |
| Sound pre<br>(Lo-Mid-Hi<br>Power<br>Cooling<br>Heating<br>Power<br>consu<br>Curren   | ssure level<br>i) *2<br>source<br>g capac<br>g capac<br>g capac<br>tt  | 230, 240V<br>ity<br>ity<br>Cooling<br>Heating<br>Cooling<br>Heating  | dB(A)<br>kW<br>BTU/h<br>kW<br>BTU/h<br>kW<br>kW   | 33 - 43 - 45<br>PEFY-P200VMH-E-F<br>3-phase 380-415V 50H<br>22.4<br>76,400<br>21.2<br>72,300<br>0.34 / 0.42<br>0.34 / 0.42<br>0.58 / 0.74<br>0.58 / 0.74  | 34 - 43 - 45<br>PEFY-P250 VMH-E-F<br>z / 3N- 380-415V 60Hz<br>28.0<br>95,500<br>26.5<br>90,400<br>0.39 / 0.50<br>0.39 / 0.50<br>0.68 / 0.86<br>0.68 / 0.86  |  |  |
| Sound pre<br>(Lo-Mid-Hi<br>Power<br>Cooling<br>Heating<br>Power<br>consu<br>Curren<br>Externa  | ssure level<br>i) *2<br>source<br>g capac<br>g capac<br>g capac<br>t<br>mption<br>it<br>al finish  | 230, 240V<br>ity<br>ity<br>Cooling<br>Heating<br>Cooling<br>Heating  | dB(A)<br>kW<br>BTU/h<br>kW<br>BTU/h<br>kW<br>kW<br>A  | 33 - 43 - 45<br>PEFY-P200VMH-E-F<br>3-phase 380-415V 50H<br>22.4<br>76,400<br>21.2<br>72,300<br>0.34 / 0.42<br>0.34 / 0.42<br>0.58 / 0.74<br>0.58 / 0.74<br>Galva   | 34 - 43 - 45<br>PEFY-P250 VMH-E-F<br>z / 3N~ 380-415V 60Hz<br>28.0<br>95,500<br>26.5<br>90,400<br>0.39 / 0.50<br>0.68 / 0.86<br>0.68 / 0.86<br>anized   |  |  |
| Sound pre<br>(Lo-Mid-Hi<br>Power<br>Cooling<br>Heating<br>Power<br>consu<br>Curren<br>Externa<br>Dimensi   | ssure level<br>i) *2<br>source<br>g capac<br>g capac<br>mption<br>it<br>al finish<br>sion  | 230, 240V<br>ity<br>ity<br>Cooling<br>Heating<br>Cooling<br>Heating  | dB(A)<br>kW<br>BTU/h<br>kW<br>BTU/h<br>kW<br>kW<br>A<br>A<br>A  | 33 - 43 - 45<br>PEFY-P200VMH-E-F<br>3-phase 380-415V 50H<br>22.4<br>76,400<br>21.2<br>72,300<br>0.34 / 0.42<br>0.34 / 0.42<br>0.34 / 0.42<br>0.58 / 0.74<br>0.58 / 0.74<br>Galvz<br>470 x 125   | 34 - 43 - 45<br>PEFY-P250 VMH-E-F<br>z / 3N~ 380-415V 60Hz<br>28.0<br>95,500<br>26.5<br>90,400<br>0.39 / 0.50<br>0.39 / 0.50<br>0.39 / 0.50<br>0.68 / 0.86<br>anized<br>50 × 1120   |  |  |
| Sound pre<br>(Lo-Mid-Hi<br>Power<br>Cooling<br>Heating<br>Power<br>consu<br>Curren<br>Externa<br>Dimensi   | ssure level<br>i) *2<br>source<br>g capac<br>g capac<br>mption<br>it<br>al finish<br>sion  | 230, 240V<br>ity<br>ity<br>Cooling<br>Heating<br>Cooling<br>Heating  | dB(A)<br>kW<br>BTU/h<br>kW<br>BTU/h<br>kW<br>kW<br>A  | 33 - 43 - 45<br>PEFY-P200VMH-E-F<br>3-phase 380-415V 50H<br>22.4<br>76,400<br>21.2<br>72,300<br>0.34 / 0.42<br>0.34 / 0.42<br>0.58 / 0.74<br>0.58 / 0.74<br>Galva   | 34 - 43 - 45<br>PEFY-P250 VMH-E-F<br>z / 3N~ 380-415V 60Hz<br>28.0<br>95,500<br>26.5<br>90,400<br>0.39 / 0.50<br>0.39 / 0.50<br>0.39 / 0.50<br>0.68 / 0.86<br>anized<br>50 × 1120   |  |  |
| Sound pre<br>(Lo-Mid-Hi<br>Power<br>Cooling<br>Heating<br>Power<br>consu<br>Curren<br>Externa<br>Dimens<br>H x W >   | ssure level<br>source<br>g capac<br>g capac<br>mption<br>tt<br>al finish<br>sion<br>x D  | 230, 240V<br>ity<br>ity<br>Cooling<br>Heating<br>Cooling<br>Heating  | dB(A)<br>kW<br>BTU/h<br>kW<br>BTU/h<br>kW<br>kW<br>A<br>A<br>A  | 33 - 43 - 45<br>PEFY-P200VMH-E-F<br>3-phase 380-415V 50H<br>22.4<br>76,400<br>21.2<br>72,300<br>0.34 / 0.42<br>0.34 / 0.42<br>0.58 / 0.74<br>0.58 / 0.74<br>Galva<br>470 × 122<br>(18-9/16 × 49   | 34 - 43 - 45<br>PEFY-P250 VMH-E-F<br>z / 3N~ 380-415V 60Hz<br>28.0<br>95,500<br>26.5<br>90,400<br>0.39 / 0.50<br>0.39 / 0.50<br>0.39 / 0.50<br>0.68 / 0.86<br>anized<br>50 × 1120   |  |  |
| Sound pre<br>(Lo-Mid-Hi<br>Power<br>Cooling<br>Heating<br>Power<br>consu<br>Curren<br>Externa<br>Dimens<br>H x W ><br>Net we   | ssure level<br>source<br>g capac<br>g capac<br>mption<br>tt<br>al finish<br>sion<br>x D  | 230, 240V<br>ity<br>Cooling<br>Heating<br>Cooling<br>Heating   | dB(A)<br>kW<br>BTU/h<br>kW<br>BTU/h<br>kW<br>kW<br>A<br>A<br>A<br>mm(in.)   | 33 - 43 - 45<br>PEFY-P200VMH-E-F<br>3-phase 380-415V 50H<br>22.4<br>76,400<br>21.2<br>72,300<br>0.34 / 0.42<br>0.34 / 0.42<br>0.58 / 0.74<br>Galve<br>470 x 124<br>(18-9/16 x 49<br>100   | 34 - 43 - 45<br>PEFY-P250 VMH-E-F<br>z / 3N~ 380-415V 60Hz<br>28.0<br>95,500<br>26.5<br>90,400<br>0.39 / 0.50<br>0.39 / 0.50<br>0.68 / 0.86<br>0.68 / 0.86<br>anized<br>50 x 1120<br>-1/4 x 44-1/8)   |  |  |
| Sound pre<br>(Lo-Mid-Hi<br>Power<br>Cooling<br>Heating<br>Power<br>consu<br>Curren<br>Externa<br>Dimens<br>H x W ><br>Net we   | ssure level<br>i) *2<br>source<br>g capac<br>g capac<br>g capac<br>g capac<br>al finish<br>sion<br>x D<br>sight<br>xchange   | 230, 240V<br>ity<br>ity<br>Cooling<br>Heating<br>Cooling<br>Heating  | dB(A)<br>kW<br>BTU/h<br>kW<br>BTU/h<br>kW<br>kW<br>A<br>A<br>A<br>mm(in.)   | 33 - 43 - 45<br>PEFY-P200VMH-E-F<br>3-phase 380-415V 50H<br>22.4<br>76,400<br>21.2<br>72,300<br>0.34 / 0.42<br>0.34 / 0.42<br>0.34 / 0.42<br>0.58 / 0.74<br>0.58 / 0.74<br>Galva<br>470 × 12t<br>(18-9/16 × 49<br>100<br>Cross fin (Aluminum pla  | 34 - 43 - 45         PEFY-P250 VMH-E-F         z / 3N- 380-415V 60Hz         28.0         95,500         26.5         90,400         0.39 / 0.50         0.39 / 0.50         0.68 / 0.86         0.68 / 0.86         anized         50 x 1120         -1/4 x 44-1/8)         (221)  |  |  |
| Sound pre<br>(Lo-Mid-Hi<br>Power<br>Cooling<br>Heating<br>Power<br>consu<br>Curren<br>Externa<br>Dimens<br>H x W ><br>Net we   | ssure level<br>i) *2<br>source<br>g capac<br>g capac<br>g capac<br>g capac<br>al finish<br>sion<br>x D<br>sight<br>xchange   | 230, 240V<br>ity<br>Cooling<br>Heating<br>Cooling<br>Heating   | dB(A)<br>kW<br>BTU/h<br>kW<br>BTU/h<br>kW<br>A<br>A<br>A<br>A<br>A<br>A<br>kg(lbs.)   | 33 - 43 - 45<br>PEFY-P200VMH-E-F<br>3-phase 380-415V 50H<br>22.4<br>76,400<br>21.2<br>72,300<br>0.34 / 0.42<br>0.34 / 0.42<br>0.34 / 0.42<br>0.58 / 0.74<br>Galvz<br>470 x 125<br>(18-9/16 x 49<br>100<br>Cross fin (Aluminum ph<br>Siroccc   | 34 - 43 - 45         PEFY-P250 VMH-E-F         z / 3N~ 380-415V 60Hz       28.0         28.0         95,500         26.5         90,400         0.39 / 0.50         0.39 / 0.50         0.68 / 0.86         anized         50 x 1120         -1/4 x 44-1/8)         (221)         ate fin and copper tube)         of an x 2  |  |  |
| Sound pre<br>(Lo-Mid-Hi<br>Power<br>Cooling<br>Heating<br>Power<br>consu<br>Curren<br>Externa<br>Dimens<br>H x W ><br>Net we   | ssure level<br>) *2<br>source<br>g capac<br>g capac<br>g capac<br>g capac<br>g capac<br>ist<br>al finish<br>sion<br>x D<br>sight<br>xchang<br>Type x   | 230, 240V<br>ity<br>ity<br>Cooling<br>Heating<br>Cooling<br>Heating<br>er<br>Quantity  | dB(A)<br>kW<br>BTU/h<br>kW<br>BTU/h<br>kW<br>kW<br>kW<br>A<br>A<br>A<br>A<br>mm(in.)<br>kg(lbs.)<br>m <sup>3</sup> /min   | 33 - 43 - 45<br>PEFY-P200VMH-E-F<br>3-phase 380-415V 50H<br>22.4<br>76,400<br>21.2<br>72,300<br>0.34 / 0.42<br>0.34 / 0.42<br>0.34 / 0.42<br>0.58 / 0.74<br>Galve<br>470 x 124<br>(18-9/16 x 49<br>100<br>Cross fin (Aluminum pla<br>Sirocco<br>28  | 34 - 43 - 45         PEFY-P250 VMH-E-F         z / 3N~ 380-415V 60Hz         28.0         95,500         26.5         90,400         0.39 / 0.50         0.39 / 0.50         0.68 / 0.86         anized         50 x 1120         -1/4 x 44-1/8)         (221)         ate fin and copper tube)         of an x 2         35  |  |  |
| Sound pre<br>(Lo-Mid-Hi<br>Power<br>Cooling<br>Heating<br>Power<br>consu<br>Curren<br>Externa<br>Dimens<br>H x W ><br>Net we<br>Heat e   | ssure level<br>i) *2<br>source<br>g capac<br>g capac<br>g capac<br>g capac<br>al finish<br>sion<br>x D<br>sight<br>xchange   | 230, 240V<br>ity<br>ity<br>Cooling<br>Heating<br>Cooling<br>Heating<br>er<br>Quantity  | dB(A)<br>kW<br>BTU/h<br>kW<br>BTU/h<br>kW<br>BTU/h<br>kW<br>A<br>A<br>A<br>mm(in.)<br>kg(lbs.)<br>m³/min<br>L/s   | 33 - 43 - 45<br>PEFY-P200VMH-E-F<br>3-phase 380-415V 50H<br>22.4<br>76,400<br>21.2<br>72,300<br>0.34 / 0.42<br>0.34 / 0.42<br>0.58 / 0.74<br>Galve<br>470 x 124<br>(18-9/16 x 49<br>100<br>Cross fin (Aluminum pl.<br>Siroccc<br>28<br>467  | 34 - 43 - 45         PEFY-P250 VMH-E-F         z / 3N- 380-415V 60Hz         28.0         95,500         26.5         90,400         0.39 / 0.50         0.39 / 0.50         0.68 / 0.86         0.68 / 0.86         0.68 / 0.86         1/4 x 44-1/8)         (221)         ate fin and copper tube)         of an x 2         35         583  |  |  |
| Sound pre<br>(Lo-Mid-Hi<br>Power<br>Cooling<br>Heating<br>Power<br>consu<br>Curren<br>Externa<br>Dimens<br>H x W ><br>Net we<br>Heat e   | ssure level<br>i) *2<br>source<br>g capac<br>g capac<br>g capac<br>g capac<br>mption<br>it<br>al finish<br>sion<br>x D<br>eight<br>xchange<br>Type x<br>Airflow  | 230, 240V<br>ity<br>Cooling<br>Heating<br>Cooling<br>Heating<br>er<br>Quantity<br>rate   | dB(A)<br>kW<br>BTU/h<br>kW<br>BTU/h<br>kW<br>BTU/h<br>kW<br>A<br>A<br>mm(in.)<br>kg(lbs.)<br>m <sup>3</sup> /min<br>L/s<br>cfm  | 33 - 43 - 45         PEFY-P200VMH-E-F         3-phase 380-415V 50H         22.4         76,400         21.2         72,300         0.34 / 0.42         0.34 / 0.42         0.58 / 0.74         0.58 / 0.74         Galva         470 x 12t         (18-9/16 x 49)         100         Cross fin (Aluminum pl.         Sirocco         28         467         989  | 34 - 43 - 45         PEFY-P250 VMH-E-F         z / 3N- 380-415V 60Hz       28.0         95,500         26.5       90,400         0.39 / 0.50       0.39 / 0.50         0.68 / 0.86       0.68 / 0.86         0.68 / 0.86         0.68 / 0.86         2211         ate fin and copper tube)         of an x 2         35         583         1236  |  |  |
| Sound pre<br>(Lo-Mid-Hi<br>Power<br>Cooling<br>Heating<br>Power<br>consu<br>Curren<br>Externa<br>Dimens<br>H x W ><br>Net we<br>Heat e   | ssure level<br>i) *2<br>source<br>g capac<br>g capac<br>g capac<br>g capac<br>mption<br>it<br>al finish<br>sion<br>x D<br>sight<br>xchange<br>Type x<br>Airflow<br>External  | 230, 240V<br>ity<br>ity<br>Cooling<br>Heating<br>Cooling<br>Heating<br>Reating<br>Quantity<br>rate<br>380V   | dB(A)<br>kW<br>BTU/h<br>kW<br>BTU/h<br>kW<br>kW<br>A<br>A<br>A<br>A<br>(lbs.)<br>m³/min<br>L/s<br>cfm<br>Pa   | 33 - 43 - 45           PEFY-P200VMH-E-F           3-phase 380-415V 50H           22.4           76,400           21.2           72,300           0.34 / 0.42           0.34 / 0.42           0.34 / 0.42           0.58 / 0.74           Galva           470 x 12t           (18-9/16 x 49)           100           Cross fin (Aluminum pl           Siroccc           28           467           989           140 / 200   | 34 - 43 - 45         PEFY-P250 VMH-E-F         z / 3N~ 380-415V 60Hz       28.0         28.0         95,500         26.5         90,400         0.39 / 0.50         0.39 / 0.50         0.68 / 0.86         anized         50 x 1120         1/4 x 44-1/8)         (221)         ate fin and copper tube)         of an x 2         35         583         1236         110 / 190   |  |  |
| Sound pre<br>(Lo-Mid-Hi<br>Power<br>Cooling<br>Heating<br>Power<br>consu<br>Curren<br>Externa<br>Dimens<br>H x W ><br>Net we<br>Heat e   | ssure level<br>i) *2<br>source<br>g capac<br>g capac<br>sion<br>x D<br>sight<br>xchange<br>Type x<br>Airflow<br>External<br>static  | 230, 240V<br>ity<br>ity<br>Cooling<br>Heating<br>Heating<br>er<br>Quantity<br>rate<br>380V<br>400V   | dB(A)<br>kW<br>BTU/h<br>kW<br>BTU/h<br>kW<br>BTU/h<br>kW<br>A<br>A<br>A<br>A<br>A<br>A<br>A<br>A<br>A<br>A<br>A<br>A<br>A   | 33 - 43 - 45           PEFY-P200VMH-E-F           3-phase 380-415V 50H           22.4           76,400           21.2           72,300           0.34 / 0.42           0.34 / 0.42           0.34 / 0.42           0.58 / 0.74           Galvz           470 x 125           (18-9/16 x 49)           100           Cross fin (Aluminum ple           Siroccc           28           467           989           140 / 200           150 / 210  | 34 - 43 - 45         PEFY-P250 VMH-E-F         z / 3N~ 380-415V 60Hz         28.0         95,500         26.5         90,400         0.39 / 0.50         0.39 / 0.50         0.68 / 0.86         anized         50 x 1120         -1/4 x 44-1/8)         (221)         ate fin and copper tube)         5 fan x 2         35         583         1236         110 / 190         120 / 200   |  |  |
| Sound pre<br>(Lo-Mid-Hi<br>Power<br>Cooling<br>Heating<br>Power<br>consu<br>Curren<br>Externa<br>Dimens<br>H x W ><br>Net we<br>Heat e   | ssure level<br>i) *2<br>source<br>g capac<br>g capac<br>g capac<br>g capac<br>mption<br>it<br>al finish<br>sion<br>x D<br>sight<br>xchange<br>Type x<br>Airflow<br>External  | 230, 240V<br>ity<br>ity<br>Cooling<br>Heating<br>Heating<br>er<br>Quantity<br>rate<br>380V<br>400V   | dB(A)<br>kW<br>BTU/h<br>kW<br>BTU/h<br>kW<br>kW<br>A<br>A<br>A<br>A<br>(lbs.)<br>m³/min<br>L/s<br>cfm<br>Pa   | 33 - 43 - 45<br>PEFY-P200VMH-E-F<br>3-phase 380-415V 50H<br>22.4<br>76,400<br>21.2<br>72,300<br>0.34 / 0.42<br>0.34 / 0.42<br>0.58 / 0.74<br>Galve<br>470 x 124<br>(18-9/16 x 49<br>100<br>Cross fin (Aluminum pl<br>Sirocce<br>28<br>467<br>989<br>140 / 200<br>160 / 220  | 34 - 43 - 45         PEFY-P250 VMH-E-F         z / 3N- 380-415V 60Hz       28.0         95,500         26.5       90,400         0.39 / 0.50       0.39 / 0.50         0.39 / 0.50       0.68 / 0.86         1.068 / 0.86         anized         50 x 1120         -1/4 x 44-1/8)         (221)         ate fin and copper tube)         of an x 2         35         583         110 / 1200         110 / 2200         130 / 210   |  |  |
| Sound pre<br>(Lo-Mid-Hi<br>Cooling<br>Heating<br>Power<br>consu<br>Curren<br><u>Extern</u><br>Dimen-<br><u>Net we</u><br>Heat e  | ssure level<br>i) *2<br>source<br>g capac<br>g capac<br>sion<br>x D<br>sign<br>x C<br>y capac<br>g capac<br>sion<br>x D<br>sign<br>x C<br>y capac<br>y capac<br>y capac<br>g capac<br>y c | 230, 240V<br>ity<br>ity<br>Cooling<br>Heating<br>Cooling<br>Heating<br>Per<br>Quantity<br>rate<br>380V<br>400V<br>415V   | dB(A)<br>kW<br>BTU/h<br>kW<br>BTU/h<br>kW<br>BTU/h<br>kW<br>A<br>A<br>mm(in.)<br>kg(lbs.)<br>m <sup>3</sup> /min<br>L/s<br>cfm<br>Pa<br>Pa<br>Pa<br>Pa  | 33 - 43 - 45<br>PEFY-P200VMH-E-F<br>3-phase 380-415V 50H<br>22.4<br>76,400<br>21.2<br>72,300<br>0.34 / 0.42<br>0.34 / 0.42<br>0.58 / 0.74<br>Galve<br>470 x 124<br>(18-9/16 x 49<br>100<br>Cross fin (Aluminum pl<br>Sirocce<br>28<br>467<br>989<br>140 / 200<br>160 / 220  | 34 - 43 - 45         PEFY-P250 VMH-E-F         z / 3N~ 380-415V 60Hz         28.0         95,500         26.5         90,400         0.39 / 0.50         0.39 / 0.50         0.68 / 0.86         anized         50 x 1120         -1/4 x 44-1/8)         (221)         ate fin and copper tube)         5 fan x 2         35         583         1236         110 / 190         120 / 200   |  |  |
| Sound prevent of the second prevent of the s | ssure level<br>i) *2<br>source<br>g capac<br>g capac<br>sion<br>x D<br>sign<br>x C<br>y capac<br>g capac<br>sion<br>x D<br>sign<br>x C<br>y capac<br>y capac<br>y capac<br>g capac<br>y c | 230, 240V<br>ity<br>ity<br>Cooling<br>Heating<br>Cooling<br>Heating<br>Per<br>Quantity<br>rate<br>380V<br>400V<br>415V   | dB(A)<br>kW<br>BTU/h<br>kW<br>BTU/h<br>kW<br>BTU/h<br>kW<br>A<br>A<br>A<br>A<br>A<br>A<br>A<br>A<br>A<br>A<br>A<br>A<br>A   | 33 - 43 - 45<br>PEFY-P200VMH-E-F<br>3-phase 380-415V 50H<br>22.4<br>76,400<br>21.2<br>72,300<br>0.34 / 0.42<br>0.34 / 0.42<br>0.58 / 0.74<br>Galve<br>470 x 124<br>(18-9/16 x 49<br>100<br>Cross fin (Aluminum pl<br>Sirocce<br>28<br>467<br>989<br>140 / 200<br>160 / 220  | 34 - 43 - 45         PEFY-P250 VMH-E-F         z / 3N- 380-415V 60Hz       28.0         95,500         26.5       90,400         0.39 / 0.50       0.39 / 0.50         0.39 / 0.50       0.68 / 0.86         1.068 / 0.86         anized         50 x 1120         -1/4 x 44-1/8)         (221)         ate fin and copper tube)         of an x 2         35         583         110 / 1200         110 / 2200         130 / 210   |  |  |
| Sound pre-<br>(Lo-Mid-Hi<br>Cooliny<br>Heatin,<br>Power<br>Consu<br>Curren<br>Extern:<br>Dimen:<br>H x W x<br>Net we<br>Heat e   | ssure level<br>) *2<br>source<br>g capac<br>g capac<br>stain<br>x D<br>sight<br>x chang<br>Type x<br>Airflow<br>External<br>staic<br>pressure<br>Type<br>Output   | 230, 240V<br>ity<br>ity<br>Cooling<br>Heating<br>Cooling<br>Heating<br>Heating<br>Cooling<br>Heating<br>Sav<br>Auantity<br>rate<br>380V<br>400V<br>415V  | dB(A)<br>kW<br>BTU/h<br>kW<br>BTU/h<br>kW<br>BTU/h<br>kW<br>A<br>A<br>mm(in.)<br>kg(lbs.)<br>m <sup>3</sup> /min<br>L/s<br>cfm<br>Pa<br>Pa<br>Pa<br>Pa  | 33 - 43 - 45           PEFY-P200VMH-E-F           3-phase 380-415V 50H           22.4           76,400           21.2           72,300           0.34 / 0.42           0.34 / 0.42           0.58 / 0.74           0.58 / 0.74           Galva           470 x 12t           (18-9/16 x 49           100           Cross fin (Aluminum ph           Sirocco           28           467           989           140 / 200           150 / 210           160 / 220           3-phase ind           0.20   | 34 - 43 - 45         PEFY-P250 VMH-E-F         z / 3N- 380-415V 60Hz       28.0         28.0         95,500         26.5         90,400         0.39 / 0.50         0.68 / 0.86         0.68 / 0.86         anized         50 x 1120         -1/4 x 44-1/8)         (221)         ate fin and copper tube)         of an x 2         35         583         1236         110 / 190         120 / 200         130 / 210         uction motor         0.23  |  |  |
| Sound pre-<br>(Lo-Mid-Hi<br>Cooliny<br>Heatin,<br>Power<br>Consu<br>Curren<br>Extern:<br>Dimen:<br>H x W x<br>Net we<br>Heat e   | ssure level<br>i) *2<br>source<br>g capac<br>g capac<br>sion<br>x D<br>sign<br>x C<br>y capac<br>g capac<br>sion<br>x D<br>sign<br>x C<br>y capac<br>y capac<br>y capac<br>g capac<br>y c | 230, 240V<br>ity<br>ity<br>Cooling<br>Heating<br>Cooling<br>Heating<br>Heating<br>Quantity<br>rate<br>380V<br>400V<br>415V   | dB(A)<br>kW<br>BTU/h<br>kW<br>BTU/h<br>kW<br>BTU/h<br>kW<br>A<br>A<br>mm(in.)<br>kg(lbs.)<br>m <sup>3</sup> /min<br>L/s<br>cfm<br>Pa<br>Pa<br>Pa<br>Pa<br>kW<br>kW  | 33 - 43 - 45           PEFY-P200VMH-E-F           3-phase 380-415V 50H           22.4           76,400           21.2           72,300           0.34 / 0.42           0.34 / 0.42           0.58 / 0.74           0.58 / 0.74           Galva           470 x 12t           (18-9/16 x 49           100           Cross fin (Aluminum pl           Sirocco           28           467           989           140 / 200           150 / 210           160 / 220           3-phase ind           0.20   | 34 - 43 - 45         PEFY-P250 VMH-E-F         z / 3N- 380-415V 60Hz       28.0         95,500         26.5       90,400         0.39 / 0.50       0.39 / 0.50         0.68 / 0.86       0.68 / 0.86         0.68 / 0.86         anized         50 x 1120         -1/4 x 44-1/8)         (221)         ate fin and copper tube)         of an x 2         35         583         120 / 200         130 / 210         uction motor         0.23         cloth filter (long life type)  |  |  |
| Sound pre<br>(Le-Mid-Hi<br>Power<br>Coolinu<br>Heatinu<br>Power<br>Consu<br>Curren<br>Extern:<br>Dimen:<br>Heat e<br>Heat e<br>Fan<br>Motor<br>Air filte   | ssure level<br>) *2<br>source<br>g capac<br>g capac<br>sion<br>x D<br>sion<br>x D<br>sion<br>x D<br>sion<br>x C<br>Airflow<br>External<br>static<br>pressure<br>Type<br>Output<br>r (option  | 230, 240V<br>ity<br>ity<br>Cooling<br>Heating<br>Cooling<br>Heating<br>Heating<br>ar<br>Quantity<br>rate<br>380V<br>400V<br>415V   | dB(A)<br>kW<br>BTU/h<br>kW<br>BTU/h<br>kW<br>BTU/h<br>kW<br>A<br>A<br>mm(in.)<br>kg(lbs.)<br>m <sup>3</sup> /min<br>L/s<br>cfm<br>Pa<br>Pa<br>Pa<br>Pa  | 33 - 43 - 45           PEFY-P200VMH-E-F           3-phase 380-415V 50H           22.4           76,400           21.2           72,300           0.34 / 0.42           0.34 / 0.42           0.58 / 0.74           0.58 / 0.74           Galva           470 x 12t           (18-9/16 x 49           100           Cross fin (Aluminum ph           Sirocco           28           467           989           140 / 200           150 / 210           160 / 220           3-phase ind           0.20   | 34 - 43 - 45         PEFY-P250 VMH-E-F         z / 3N- 380-415V 60Hz       28.0         28.0         95,500         26.5         90,400         0.39 / 0.50         0.68 / 0.86         0.68 / 0.86         anized         50 x 1120         -1/4 x 44-1/8)         (221)         ate fin and copper tube)         of an x 2         35         583         1236         110 / 190         120 / 200         130 / 210         uction motor         0.23  |  |  |
| Sound pre<br>(Le-Mid-Hi<br>Power<br>Cooliny<br>Heatin<br>Power<br>Consu<br>Curren<br>Extern:<br>Dimen:<br>Swatch<br>Heat e<br>Fan<br>Motor<br>Air filte  | ssure level<br>i) *2<br>source<br>g capac<br>g capac<br>g capac<br>g capac<br>g capac<br>g capac<br>g capac<br>g capac<br>static<br>Type x<br>Airflow<br>External<br>static<br>pressure<br>Type<br>Output<br>er (optio   | 230, 240V<br>ity<br>Cooling<br>Heating<br>Cooling<br>Heating<br>Heating<br>Cooling<br>Heating<br>ar<br>Quantity<br>rate<br>380V<br>400V<br>415V  | dB(A)<br>kW<br>BTU/h<br>kW<br>BTU/h<br>kW<br>BTU/h<br>kW<br>A<br>A<br>mm(in.)<br>kg(lbs.)<br>m <sup>3</sup> /min<br>L/s<br>cfm<br>Pa<br>Pa<br>Pa<br>Pa<br>kW<br>kW  | 33 - 43 - 45           PEFY-P200VMH-E-F           3-phase 380-415V 50H           22.4           76,400           21.2           72,300           0.34 / 0.42           0.34 / 0.42           0.58 / 0.74           0.58 / 0.74           Galva           470 x 12t           (18-9/16 x 49           100           Cross fin (Aluminum pl           Sirocco           28           467           989           140 / 200           150 / 210           160 / 220           3-phase ind           0.20   | 34 - 43 - 45         PEFY-P250 VMH-E-F         z / 3N- 380-415V 60Hz       28.0         95,500         26.5       90,400         0.39 / 0.50       0.39 / 0.50         0.39 / 0.50       0.68 / 0.86         0.68 / 0.86       0.68 / 0.86         2221         35         583         120         120         120 / 200         130 / 210         uction motor         0.23         cloth filter (long life type)  |  |  |
| Sound pre<br>(Le-Mid-Hi<br>Power<br>Cooliny<br>Heatin<br>Power<br>Consu<br>Curren<br>Extern:<br>Dimen:<br>Swatch<br>Heat e<br>Fan<br>Motor<br>Air filte  | ssure level<br>i) *2<br>source<br>g capac<br>g capac<br>g capac<br>g capac<br>g capac<br>g capac<br>g capac<br>g capac<br>static<br>Type x<br>Airflow<br>External<br>static<br>pressure<br>Type<br>Output<br>er (optio   | 230, 240V<br>ity<br>Cooling<br>Heating<br>Cooling<br>Heating<br>Cooling<br>Heating<br>Cooling<br>Heating<br>Cooling<br>Heating<br>Cooling<br>Heating<br>Cooling<br>Heating<br>Cooling<br>Heating<br>Cooling<br>Heating<br>Cooling<br>Heating<br>Cooling<br>Heating<br>Cooling<br>Heating<br>Cooling<br>Heating<br>Cooling<br>Heating<br>Cooling<br>Heating<br>Cooling<br>Heating<br>Cooling<br>Heating<br>Cooling<br>Heating<br>Cooling<br>Heating<br>Cooling<br>Heating<br>Cooling<br>Heating<br>Cooling<br>Heating<br>Cooling<br>Heating<br>Cooling<br>Heating<br>Cooling<br>Heating<br>Cooling<br>Heating<br>Cooling<br>Heating<br>Cooling<br>Heating<br>Cooling<br>Heating<br>Cooling<br>Heating<br>Cooling<br>Heating<br>Cooling<br>Heating<br>Cooling<br>Heating<br>Cooling<br>Heating<br>Cooling<br>Heating<br>Cooling<br>Heating<br>Cooling<br>Heating<br>Cooling<br>Heating<br>Cooling<br>Liquing<br>Liquing<br>Liquing<br>Liquing<br>Cooling<br>Liquing<br>Cooling<br>Liquing<br>Cooling<br>Liquing<br>Cooling<br>Liquing<br>Cooling<br>Liquing<br>Cooling<br>Liquing<br>Cooling<br>Cooling<br>Liquing<br>Cooling<br>Cooling<br>Cooling<br>Cooling<br>Cooling<br>Cooling<br>Cooling<br>Cooling<br>Cooling<br>Cooling<br>Cooling<br>Cooling<br>Cooling<br>Cooling<br>Cooling<br>Cooling<br>Cooling<br>Cooling<br>Cooling<br>Cooling<br>Cooling<br>Cooling<br>Cooling<br>Cooling<br>Cooling<br>Cooling<br>Cooling<br>Cooling<br>Cooling<br>Cooling<br>Cooling<br>Cooling<br>Cooling<br>Cooling<br>Cooling<br>Cooling<br>Cooling<br>Cooling<br>Cooling<br>Cooling<br>Cooling<br>Cooling<br>Cooling<br>Cooling<br>Cooling<br>Cooling<br>Cooling<br>Cooling<br>Cooling<br>Cooling<br>Cooling<br>Cooling<br>Cooling<br>Cooling<br>Cooling<br>Cooling<br>Cooling<br>Cooling<br>Cooling<br>Cooling<br>Cooling<br>Cooling<br>Cooling<br>Cooling<br>Cooling<br>Cooling<br>Cooling<br>Cooling<br>Cooling<br>Cooling<br>Cooling<br>Cooling<br>Cooling<br>Cooling<br>Cooling<br>Cooling<br>Cooling<br>Cooling<br>Cooling<br>Cooling<br>Cooling<br>Cooling<br>Cooling<br>Cooling<br>Cooling<br>Cooling<br>Cooling<br>Cooling<br>Cooling<br>Cooling<br>Cooling<br>Cooling<br>Cooling<br>Cooling<br>Cooling<br>Cooling<br>Cooling<br>Cooling<br>Cooling<br>Cooling<br>Cooling<br>Cooling<br>Cooling<br>Cooling<br>Cooling<br>Cooling<br>Cooling<br>Cooling<br>Cooling<br>Cooling<br>Cooling<br>Cooling<br>Cooling<br>Cooling<br>Cooling<br>Cooling<br>Cooling<br>Cooling<br>Cooling<br>Cooling<br>Cooling<br>Cooling<br>Cooling<br>Cooling<br>Cooling<br>Cooling<br>Cooling<br>Cooling<br>Cooling<br>Cooli | dB(A)<br>kW<br>BTU/h<br>kW<br>BTU/h<br>kW<br>BTU/h<br>kW<br>A<br>A<br>mm(in.)<br>kg(lbs.)<br>m <sup>3</sup> /min<br>L/s<br>cfm<br>Pa<br>Pa<br>Pa<br>Pa<br>kW<br>kW  | 33 - 43 - 45           PEFY-P200VMH-E-F           3-phase 380-415V 50H           22.4           76,400           21.2           72,300           0.34 / 0.42           0.34 / 0.42           0.34 / 0.42           0.34 / 0.42           0.34 / 0.42           0.58 / 0.74           Galvz           470 x 125           (18-9/16 x 49           100           Cross fin (Aluminum pl           Siroccc           28           467           989           140 / 200           150 / 210           160 / 220           3-phase ind           0.20           Synthetic fiber unwoven           \$\alpha19.05 (\alpha3/4)   | 34 - 43 - 45         PEFY-P250 VMH-E-F         z / 3N- 380-415V 60Hz       28.0         95,500         26.5       90,400         0.39 / 0.50       0.39 / 0.50         0.39 / 0.50       0.68 / 0.86         0.68 / 0.86       0         0.68 / 0.86         2211         ate fin and copper tube)         of an x 2         35         1236         110 / 190         120 / 200         130 / 210         uction motor         0.23         cloth filter (long life type)  |  |  |
| Sound pre<br>(Lo-Mid-Hi<br>Power<br>Cooling<br>Heating<br>Power<br>consu<br>Curren<br>Extern:<br>Dimen:<br>H × W ><br>Net we<br>Heat e<br>Fan<br>Motor<br>Air filte<br>Refrige<br>pipe di  | ssure level<br>) *2<br>source<br>g capac<br>g capac<br>sign<br>t<br>x D<br>sign<br>x D<br>sign<br>x C<br>ype x<br>Airflow<br>External<br>static<br>pressure<br>Type<br>Output<br>rr (optic<br>erant<br>ameter  | 230, 240V<br>ity<br>ity<br>Cooling<br>Heating<br>Heating<br>Heating<br>er<br>Quantity<br>rate<br>380V<br>400V<br>415V<br>m)<br>Gas<br>(Flare)<br>Liquid<br>(Flare)   | dB(A)<br>kW<br>BTU/h<br>kW<br>BTU/h<br>kW<br>BTU/h<br>kW<br>A<br>A<br>A<br>mm(in.)<br>kg(lbs.)<br>m <sup>3</sup> /min<br>L/s<br>cfm<br>Pa<br>Pa<br>Pa<br>Pa<br>Pa<br>Pa<br>Pa<br>Pa<br>Pa<br>Pa                         | 33 - 43 - 45           PEFY-P200VMH-E-F           3-phase 380-415V 50H           22.4           76,400           21.2           72,300           0.34 / 0.42           0.34 / 0.42           0.34 / 0.42           0.34 / 0.42           0.34 / 0.42           0.58 / 0.74           Galva           470 x 12t           (18-9/16 x 49           100           Cross fin (Aluminum ph)           Siroccc           28           467           989           140 / 200           150 / 210           160 / 220           3-phase ind           0.20           Synthetic fiber unwoven           ø19.05 (ø3/4)  | 34 - 43 - 45         PEFY-P250 VMH-E-F         z / 3N- 380-415V 60Hz       28.0         95,500         26.5         90,400         0.39 / 0.50         0.39 / 0.50         0.68 / 0.86         anized         50 × 1120         1/4 x 44-1/8)         (221)         ate fin and copper tube)         of an x 2         35         583         1236         110 / 190         120 / 200         uction motor         0.23         cloth filter (long life type)         ø22.2 (ø7/8)         (ø3/8)  |  |  |
| Sound pre<br>(Lo-Mid-Hi<br>Power<br>Cooling<br>Heating<br>Power<br>consu<br>Curren<br>Extern:<br>Dimen:<br>H × W ><br>Net we<br>Heat e<br>Fan<br>Motor<br>Air filte<br>Refrige<br>pipe di  | ssure level<br>i) *2<br>source<br>g capac<br>g capac<br>g capac<br>g capac<br>g capac<br>g capac<br>g capac<br>g capac<br>static<br>Type x<br>Airflow<br>External<br>static<br>pressure<br>Type<br>Output<br>er (optio   | 230, 240V<br>ity<br>ity<br>Cooling<br>Heating<br>Cooling<br>Heating<br>Cooling<br>Heating<br>Heating<br>Pr<br>Quantity<br>rate<br>380V<br>400V<br>415V<br>Gas<br>(Flare)<br>Liquid<br>(Flare)<br>Liquid<br>(Flare)<br>diameter   | dB(A)<br>kW<br>BTU/h<br>kW<br>BTU/h<br>kW<br>BTU/h<br>kW<br>a<br>A<br>A<br>A<br>A<br>A<br>Mm(in.)<br>kg(lbs.)<br>m <sup>3</sup> /min<br>L/s<br>cfm<br>Pa<br>Pa<br>Pa<br>Pa<br>Pa<br>kW<br>mm(in.)<br>mm(in.)<br>mm(in.) | 33 - 43 - 45           PEFY-P200VMH-E-F           3-phase 380-415V 50H           22.4           76,400           21.2           72,300           0.34 / 0.42           0.34 / 0.42           0.58 / 0.74           0.58 / 0.74           0.58 / 0.74           0.58 / 0.74           0.58 / 0.74           0.58 / 0.74           0.58 / 0.74           0.58 / 0.74           0.58 / 0.74           0.58 / 0.74           0.58 / 0.74           0.58 / 0.74           0.58 / 0.74           0.58 / 0.74           0.58 / 0.74           0.58 / 0.74           0.74           0.74           0.74           0.74           0.74           0.74           0.74           0.74           0.74           0.74           100           Cross fin (Aluminum ple           Siroccc           28           467           989           140 / 200           150 / 210           160 / 220           Synthetic | 34 - 43 - 45         PEFY-P250 VMH-E-F         z / 3N- 380-415V 60Hz       28.0         95,500         26.5         90,400         0.39 / 0.50         0.39 / 0.50         0.68 / 0.86         anized         50 x 1120         -1/4 x 44-1/8)         (221)         ate fin and copper tube)         583         120 / 200         120 / 200         120 / 200         120 / 200         120 / 200         120 / 200         130 / 210         uction motor         0.23         cloth filter (long life type)         Ø22.2 (ø7/8)         (ø3/8)         (1-1/4)   |  |  |
| Sound pre<br>(Lo-Mid-Hi<br>Power<br>Cooliny<br>Heatin,<br>Power<br>Cooliny<br>Heatin,<br>Cooliny<br>Heatin,<br>Cooliny<br>Heatin,<br>Cooliny<br>Heatin,<br>Netwee<br>Heatin,<br>Netwee<br>Fan<br>Motor<br>Air filte<br>Refrige di  | ssure level<br>) *2<br>source<br>g capac<br>g capac<br>sight<br>xchang<br>Type x<br>Airflow<br>External<br>static<br>pressure<br>Type<br>Output<br>or (optic  | 230, 240V<br>ity<br>ity<br>Cooling<br>Heating<br>Heating<br>Heating<br>er<br>Quantity<br>rate<br>380V<br>400V<br>415V<br>m)<br>Gas<br>(Flare)<br>Liquid<br>(Flare)   | dB(A)<br>kW<br>BTU/h<br>kW<br>BTU/h<br>kW<br>BTU/h<br>kW<br>A<br>A<br>A<br>A<br>M<br>m(in.)<br>kg(lbs.)<br>m <sup>3</sup> /min<br>L/s<br>cfm<br>Pa<br>Pa<br>Pa<br>Pa<br>Pa<br>Pa<br>Pa<br>Pa<br>Pa<br>Pa                | 33 - 43 - 45           PEFY-P200VMH-E-F           3-phase 380-415V 50H           22.4           76,400           21.2           72,300           0.34 / 0.42           0.34 / 0.42           0.58 / 0.74           Galva           470 x 122           (18-9/16 x 49           100           Cross fin (Aluminum pla           Siroccc           28           467           989           140 / 200           150 / 210           160 / 220           3-phase ind           0.20           Synthetic fiber unwoven           ø19.05 (ø3/4)           Ø9.52           0.0.32           39 / 42   | 34 - 43 - 45         PEFY-P250 VMH-E-F         z / 3N- 380-415V 60Hz       28.0         95,500         26.5         90,400         0.39 / 0.50         0.39 / 0.50         0.68 / 0.86         0.68 / 0.86         anized         50 x 1120         -1/4 x 44-1/8)         (221)         ate fin and copper tube)         of an x 2         35         120 / 200         130 / 210         uction motor         0.23         cloth filter (long life type)         ø22.2 (ø7/8)         (ø3/8)         (1-1/4)  |  |  |
| Sound pre<br>Cooling<br>Power<br>Cooling<br>Heating<br>Power<br>Consu<br>Curren<br>Extern:<br>Dimen:<br>H × W ><br>Net we<br>Heat e<br>Fan<br>Motor<br>Air filte<br>Refrige<br>pipe di   | ssure level<br>) *2<br>source<br>g capac<br>g capac<br>sight<br>xchang<br>Type x<br>Airflow<br>External<br>static<br>pressure<br>Type<br>Output<br>or (optic  | 230, 240V<br>ity<br>ity<br>Cooling<br>Heating<br>Cooling<br>Heating<br>Cooling<br>Heating<br>Heating<br>Pr<br>Quantity<br>rate<br>380V<br>400V<br>415V<br>Gas<br>(Flare)<br>Liquid<br>(Flare)<br>Liquid<br>(Flare)<br>diameter   | dB(A)<br>kW<br>BTU/h<br>kW<br>BTU/h<br>kW<br>BTU/h<br>kW<br>a<br>A<br>A<br>A<br>A<br>A<br>Mm(in.)<br>kg(lbs.)<br>m <sup>3</sup> /min<br>L/s<br>cfm<br>Pa<br>Pa<br>Pa<br>Pa<br>Pa<br>kW<br>mm(in.)<br>mm(in.)<br>mm(in.) | 33 - 43 - 45           PEFY-P200VMH-E-F           3-phase 380-415V 50H           22.4           76,400           21.2           72,300           0.34 / 0.42           0.34 / 0.42           0.58 / 0.74           0.58 / 0.74           0.58 / 0.74           0.58 / 0.74           0.58 / 0.74           0.58 / 0.74           0.58 / 0.74           0.58 / 0.74           0.58 / 0.74           0.58 / 0.74           0.58 / 0.74           0.58 / 0.74           0.58 / 0.74           0.58 / 0.74           0.58 / 0.74           0.58 / 0.74           0.74           0.74           0.74           0.74           0.74           0.74           0.74           0.74           0.74           0.74           100           Cross fin (Aluminum ple           Siroccc           28           467           989           140 / 200           150 / 210           160 / 220           Synthetic | 34 - 43 - 45         PEFY-P250 VMH-E-F         z / 3N- 380-415V 60Hz       28.0         95,500         26.5         90,400         0.39 / 0.50         0.39 / 0.50         0.39 / 0.50         0.68 / 0.86         0.68 / 0.86         anized         50 x 1120         -1/4 x 44-1/8)         (221)         ate fin and copper tube)         583         120 / 200         110 / 190         120 / 200         120 / 200         120 / 200         120 / 200         130 / 210         uction motor         0.23         cloth filter (long life type)         0.23         0.23 (03/8)         (03/8)         (1-1/4) |  |  |

#### Notes:

1. The cooling and heating capacites are the maximum capacites that were obitained by operating in the above air conditions and with a refrigerant pipe of about 7.5m. The actual capacity characteristics vary with the combination of indoor and outdoor units. See the technical information.
 The operating noise is the data that was obtained by measuring it 1.5m from the the bottom of the unit in an anechoic room. (Noise meter A-scale value)
 The greating noise is the data that was obtained by measuring it 1.5m from the the bottom of the unit in an anechoic room. (Noise meter A-scale value)
 The figure of Electrical characteristic indicates at 2400 SOHZ/2007/PR80, 140/VHM-E-F type), at 22007 as exting at 1500 (PEFY-P200, 250VMH-E-F type).
 When the 100% fresh air indoor units are connected, the maximum connectable indoor units to 1 outdoor unit are as follows Heat pump models Cooling only

110%(100% in case of heating below-5°C(23°F)) 110% 6. Operational temp range is  $\left( \begin{array}{c} \text{Cooling}: \text{from } 21^\circ\text{C}(70^\circ\text{F})\text{DB}/15.5^\circ\text{C}(60^\circ\text{F})\text{WB to } 43^\circ\text{C}(109^\circ\text{F})\text{DB}/35^\circ\text{C}(95^\circ\text{F})\text{WB} \\ \text{Heating}: \text{from } -10^\circ\text{C}(14^\circ\text{F})\text{DB to } 20^\circ\text{C}(68^\circ\text{F})\text{DB} \\ \end{array} \right)$ 

\ Heating : from -10°C(14°F)DB to 20°C(68°F)DB
 \ Thermo off(Fan) operation automatically starts either when temperature is lower than 21°C(70°F)DB in cooling mode or when the temperature exceeds 20°C(68°F)DB in heating mode.
 As the room temp in sensed by the thermo in the remote controller or the one in the room, be sure to use either remote controller or room thermo.
 A vutochangeover function or Dry mode is NOT available. Fan mode operation during the thermo off in Cooling/Heating mode.
 In any case, the air flow rate should be kept lower than 110% of the above chart. Please see "Fan curves" for the details.
 Uh-conditioned outdoor air such as shue/AC system, be careful about the dew in air outlet grilles in cooling mode.
 Un-conditioned outdoor air such as humid air or cold air blows to the indoor during the termo off cooling/Heating mode.
 Lon-conditioned public outdoor air such as humid air or cold air blows to the indoor during thermo off operation. Please be careful when positioning indoor unit air outlet grilles, ie take the necessary precautions for cold air, and also insulate rooms for dew condensation prevention as required.
 LAir filter must be installed in the air intake side. The filter should be attached where easy maintenance in possible in case of usage of fild supply filters.
 Long life cannot be used with Hi-efficiency filter together (PEFY-P80 · 140VMH-E-F type).



## **INDOOR UNIT Ceiling suspended type**

## PCFY-P VKM-E



Designed for ultra-quiet operation and easy maintenance, provides exceptionally comfortable air-conditioning.



Extra slim, extra stylish

Sleek and slim with stylishly curved lines, the PCFY series blends right into any interior. It also features a single air outlet which allows the auto vane to act as a shutter when the unit is turned off.

#### Auto vane distributes air evenly

The auto vane swings up and down automatically to distribute air more evenly to every corner of the room.

#### Long life filter as standard

Long life filter is equipped as standard enabling up to 2,500 hours of operation (office use) without maintenance.

#### Keeps airflow at optimum level according to ceiling height

The most suitable airflow can be selected for ceilings up to 4.2m high, enhancing air-conditioning efficiency and comfort. (P100/P125)

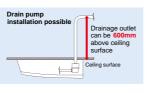
|                | Standard     | High ceiling |
|----------------|--------------|--------------|
| Ceiling height | 3.0(9-13/16) | 4.2(13-3/4)  |
|                |              | m (ft)       |

#### Greatly simplified installation

The direct suspension system eliminates the task of removing the attachment fixture from the main unit, greatly shortening installation time.

#### Drain pump option available with all models

The pumping height of the optional drain pump has been increased from 400 mm to 600 mm, expanding flexibility in choosing unit location during installation work.



#### Outside-air intake

| Units are equipped with a  | Outside-air intake characteristics |
|--|------------------------------------|
| knock-out hole that enables<br>the induction of fresh outside-<br>air. | re         0                       |

#### Equipped with automatic air-speed adjustment

In addition to the conventional 4-speed setting, units are now equipped with and automatic air-speed adjustment mode. This setting automatically adjusts the air-speed to conditions that match the room environment. At the start of heating/cooling operation, the airflow is set to high-speed to guickly heat/cool the room. When the room temperature reaches the desired setting, the airflow speed is decreased automatically for stable comfortable heating/cooling operation.



### ► Specifications

|           |                       |                   |          | PCFY-P40VKM-E                            | PCFY-P63VKM-E            | PCFY-P100VKM-E        | PCFY-P125VKM-E        |  |  |
|-----------|-----------------------|-------------------|----------|--|--------------------------|-----------------------|-----------------------|--|--|
| Power     | source                |                   |          | •  | 1-phase 220-240V 50Hz    | / 1-phase 220V 60Hz   |                       |  |  |
| 0         |                       | *1                | kW       | 4.5                                      | 7.1                      | 11.2                  | 14.0                  |  |  |
| Coolin    | g capacit             | <sup>y</sup> *1   | BTU/h    | 15,400                                   | 24,200                   | 38,200                | 47,800                |  |  |
| Coolin    | g capacit             | ty *4             | kW       | 4.6                                      | 7.2                      | 11.4                  | 14.2                  |  |  |
| 11        |                       | *1                | kW       | 5.0                                      | 8.0                      | 12.5                  | 16.0                  |  |  |
| Heatin    | g capacit             | <sup>ty</sup> *1  | BTU/h    | 17,100                                   | 27,300                   | 42,700                | 54,600                |  |  |
| Power     |                       | Cooling           | kW       | 0.04                                     | 0.05                     | 0.09                  | 0.11                  |  |  |
| consu     | mption                | Heating           | kW       | 0.04                                     | 0.05                     | 0.09                  | 0.11                  |  |  |
| Current   |                       | Cooling           | A        | 0.28                                     | 0.33                     | 0.65                  | 0.76                  |  |  |
| Curren    | IT                    | Heating           | A        | 0.28                                     | 0.33                     | 0.65                  | 0.76                  |  |  |
| Extern    | al finish(I           | Munsell N         | lo.)     |  | 6.4Y 8.9                 | 9/ 0.4                |                       |  |  |
| D:        | sion H x              | W                 | mm       | 230 x 960 x 680                          | 230 x 1,280 x 680        | 230 x 1,6             | 600 x 680             |  |  |
| Dimen     | SION H X              | W X D             | in.      | 9-1/16 x 37-13/16 x 26-3/4               | 9-1/16 x 50-3/8 x 26-3/4 | 9-1/16 x 6            | 3 x 26-3/4            |  |  |
| Net we    | eight                 |                   | kg(lbs.) | 24(53)                                   | 32 (71)                  | 36 (79)               | 38 (84)               |  |  |
| Heat e    | xchange               | r                 |          | Cross fin (Aluminum fin and copper tube) |                          |                       |                       |  |  |
|           | Type x                | Quantity          |          | Sirocco fan x 2                          | Sirocco fan x 3          | Sirocco fan x 4       |                       |  |  |
|           | Airflow               | *2                | m³/min   | 10-11-12-13                              | 14-15-16-18              | 21-24-26-28           | 21-24-27-31           |  |  |
| Fan       | 1                     | -Mid1-Hi)         | L/s      | 167-183-200-217                          | 233-250-267-300          | 350-400-433-467       | 350-400-450-517       |  |  |
|           | (LO-IVIIO2            | -11101-111)       | cfm      | 353-388-424-459                          | 494-530-565-636          | 742-847-918-989       | 742-847-953-1,095     |  |  |
|           | External sta          | atic pressure     | Pa       |  | Ó                        |                       |                       |  |  |
|           | Туре                  |                   |          |  | DC mc                    | otor                  |                       |  |  |
| Motor     | Output                |                   | kW       | 0.090                                    | 0.095                    | 0.1                   | 60                    |  |  |
| Air filte | er                    |                   |          | ·  | PP Honeycom              | b (long life)         |                       |  |  |
| Refrige   | erant                 | Gas<br>(Flare)    | mm(in.)  | ø12.7 (ø1/2)                             | ø15.88 (ø5/8)            | ø15.88 (ø5/8) / ø19.0 | 5 (ø3/4) (Compatible) |  |  |
| pipe di   | iameter               | Liquid<br>(Flare) | mm(in.)  | ø6.35 (ø1/4)                             |                          | ø9.52 (ø3/8)          |                       |  |  |
| Field d   | rain pipe             | diameter          | mm(in.)  |  | O.D. 26                  | 6 (1)                 |                       |  |  |
| Sound     | pressure<br>d2-Mid1-H | e level           | dB(A)    | 29-32-34-36                              | 31-33-35-37              | 36-38-41-43           | 36-39-42-44           |  |  |

#### Notes:

- \*1 Cooling/Heating capacity indicates the maximum value at operation under the following condition. Cooling Indoor : 27°C(80.6°F)DB/19°C(66.2°F)WB,Outdoor 35°C(95°F)DB Heating Indoor : 20°C(68°F)DB,Outdoor 7°C(44.6°F)DB/6°C(42.8°F)WB
- \*2 Airflw rate/Sound pressure level are shown in (low-middle 2-middle 1-high).
- \*3 It is measured in anechoic room.
- \*4 Reference data under condition of Indoor 27°C(81°F)DB/19.5°C(67°F)WB, Outdoor 35°C(95°F)DB

## **INDOOR UNIT** Wall mounted type



**Elegant Design and Compact Dimensions Ideal for Offices,** Stores and Residential Uses.

PKFY-P VBM

PKFY-P VKM

Capacity range



design, adopting the flat panel layout.

changed from white to pure white.

| VBM*                      | $\bigcirc$ | ightarrow | $\bigcirc$ |            |            |            |            |            |       |
|---------------------------|------------|-----------|------------|------------|------------|------------|------------|------------|-------|
| VHM                       |            |           |            | $\bigcirc$ | $\bigcirc$ | $\bigcirc$ |            |            |       |
| VKM                       |            |           |            |            |            |            | $\bigcirc$ | $\bigcirc$ |       |
| *External L<br>or dormito |            |           |            |            |            |            |            | , hosp     | itals |

Capacity P15 P20 P25 P32 P40 P50 P63 P100

#### 4-way piping provides more flexibility in selecting installation sites

PKFY-P VHM

All piping including drainage can be connected from the rear, right, base, and left of the unit, providing much greater flexibility in piping and selecting installation site.

#### Flat panel & Pure white finish



| Built-in signal receiver | PKFY-P VH   | M features   |
|--------------------------|---|--|
|                          | Compact size of 898mm   |  |
| PKFY-P VBM features      | Width size reduced to match small size buildings and offices. | Approx. 3kg<br>model (P32                              |
| Compact profile          | 1-45mm  | Dra  |
| Quiet operation          | 898mm<br>Comparison with PKFY-P VGM-E                         | The option<br>drain conne<br>as 800mm,<br>piping layor |
|                          |   | ⊫_=  |

| PKFY-P VHI   | M features  |  |  |  |  |  |
|--|---|--|--|--|--|--|
| Compact size of 898mm                                | Light unit  |  |  |  |  |  |
| h size reduced to match small buildings and offices. | Approx. 3kg reduced from conventional model (P32-50). Easier installation.  |  |  |  |  |  |
| 1-45mm   | Drain pump (option)   |  |  |  |  |  |
| 898mm<br>Comparison with PKFY-P VGM-E                | The optional drain pump allows the drain connection to be raised as high as 800mm, allowing more freedom in piping layout design. |  |  |  |  |  |
|  | 800mm   |  |  |  |  |  |

## ► Specifications

|                     |             |                   |          | PKFY-P15VBM-E     | PKFY-P20VBM-E            | PKFY-P25VBM-E        | PKFY-P32VHM-E                               | PKFY-P40VHM-E          | PKFY-P50VHM-E                                |  |  |  |
|---------------------|-------------|-------------------|----------|-------------------|--------------------------|----------------------|---|------------------------|--|--|--|--|
| Power               | source      |                   |          |                   |                          | 1-phase 220-240V 50H | z / 1-phase 220V 60H                        | 7                      |  |  |  |  |
| o "                 |             | . *1              | kW       | 1.7               | 2.2                      | 2.8                  | 3.6   | 4.5                    | 5.6  |  |  |  |
| Cooling             | g capacit   | <sup>ty</sup> *1  | BTU/h    | 5,800             | 7,500                    | 9,600                | 12,300                                      | 15,400                 | 19,100                                       |  |  |  |
| Cooling             | g capacit   | ty *5             | kW       | 1.7               | 2.2                      | 2.8                  | 3.7   | 4.6                    | 5.7  |  |  |  |
|                     |             | *1                | kW       | 1.9               | 2.5                      | 3.2                  | 4.0   | 5.0                    | 6.3  |  |  |  |
| Heating             | g capaci    | <sup>ty</sup> *1  | BTU/h    | 6,500             | 8,500                    | 10,900               | 13,600                                      | 17,100                 | 21,500                                       |  |  |  |
| Power               | C           | Cooling *4        | kW       |                   | 0.04                     |                      |   | 0.04                   | •  |  |  |  |
| consun              | nption H    | leating           | kW       |                   | 0.04                     |                      |   | 0.03                   |  |  |  |  |
| C                   | . C         | Cooling *4        | А        |                   | 0.20                     |                      |   | 0.40                   |  |  |  |  |
| Curren              | с П         | leating           | Α        |                   | 0.20                     |                      |   | 0.30                   |  |  |  |  |
| Externa             | al finish(  | Munsell N         | lo.)     |                   | Plastic (1.0Y 9.2/0.2)   |                      |   | Plastic (1.0Y 9.2/0.2) |  |  |  |  |
|                     |             |                   | mm(in.)  | 295 x 815         | 5 x 225 (11-5/8 x 32-1/8 | 3 x 8-7/8)           | 295 x 898 x 249(11-5/8 x 35-3/8 x 9-13/16)  |                        |  |  |  |  |
| Net weight kg(lbs.) |             |                   | kg(lbs.) |                   | 13(29)                   |                      |   |                        |  |  |  |  |
| Heat exchanger      |             |                   |          |                   | Cross fin (Aluminum      | fin and copper tube) |   |                        |  |  |  |  |
|                     | Туре х      | Quantity          |          | Line flow fan x 1 |                          |                      |   |                        |  |  |  |  |
|                     | Airflow     | *2                | m³/min   | 4.9-5.0-5.2-5.3   | 4.9-5.2-5.6-5.9          |                      | 9-10-11                                     | 9-10.5-11.5            | 9-10.5-12                                    |  |  |  |
| Fan                 |             | 2-Mid1-Hi)        | L/s      | 82-83-87-88       | 82-87-93-98              |                      | 150-167-183                                 | 150-175-192            | 150-175-200                                  |  |  |  |
|                     |             | 2-IVIIU I -FII)   | cfm      | 173-177-184-187   | 173-184-198-208          |                      | 318-353-388                                 | 318-371-424            |  |  |  |  |
|                     | External st | tatic pressure    | Pa       |                   |                          | (                    | )   |                        |  |  |  |  |
| Motor               | Туре        |                   |          | 1                 | -phase induction moto    | r                    |   | DC motor               |  |  |  |  |
| WOLUI               | Output      |                   | kW       |                   | 0.017                    |                      |   | 0.030                  |  |  |  |  |
| Air filte           | r           |                   |          |                   |                          | PP Hon               | eycomb                                      |                        |  |  |  |  |
| Refrige             | erant       | Gas<br>(Flare)    | mm(in.)  |                   |                          | ø12.7 (ø1/2)         |   |                        | ø12.7 (ø1/2) / ø15.88 (ø5/8)<br>(Compatible) |  |  |  |
| pipe dia            | ameter      | Liquid<br>(Flare) | mm(in.)  |                   | Ø6.35 (Ø1/4)             |                      | ø6.35 (ø1/4) / ø9.52 (ø3/8)<br>(Compatible) |                        |  |  |  |  |
| Field dr            | ain pipe    | diameter          | mm(in.)  |                   |                          | I.D.16               | 6 (5/8)                                     |                        | /  |  |  |  |
| Sound               | pressure    |                   | dB(A)    | 29-31-32-33       | 29-31                    | -34-36               | 34-37-41                                    | 34-38-41               | 34-39-43                                     |  |  |  |

#### Notes:

\*1 Cooling/Heating capacity indicates the maximum value at operation under the following condition. Cooling Indoor : 27°C(81°F)DB/19°C(66°F)WB,Outdoor 35°C(95°F)DB Heating Indoor : 20°C(88°F)DB,Outdoor 7°C(45°F)DB/6°C(43°F)WB

- \*2 Airflow rate/Sound pressure level are in (low-middle2-middle1-high).
- \*3 It is measured in anechoic room.
- \*4 Electrical characteristic of cooling are included optional drain-pump.
- \*5 Reference data under condition of Indoor 27°C(81°F)DB/19.5°C(67°F)WB, Outdoor 35°C(95°F)DB

|                  |   |                   |          | PKFY-P63VKM-E                            | PKFY-P100VKM-E                |  |  |  |  |  |
|------------------|---|-------------------|----------|--|-------------------------------|--|--|--|--|--|
| Power            | source  |                   |          | 1-phase 220-230-240V 50                  | DHz / 1-phase 220V 60Hz       |  |  |  |  |  |
| 0                |   | *1                | kW       | 7.1                                      | 11.2                          |  |  |  |  |  |
| Cooling          | g capacit   | y *1              | BTU/h    | 24,200                                   | 38,200                        |  |  |  |  |  |
| Cooling          | nsumption Heating<br>rrrent Cooling<br>ternal finish(Muns<br>mension H x W x<br>tweight<br>tat exchanger<br>Type x Quar<br>Airflow rate<br>(Lo-Hi)<br>External static pres- | y *5              | kW       | 7.2                                      | 11.4                          |  |  |  |  |  |
|                  |   | *1                | kW       | 8.0                                      | 12.5                          |  |  |  |  |  |
| Heating          | g capacit   | <sup>y</sup> *1   | BTU/h    | 27,300                                   | 42,600                        |  |  |  |  |  |
| Power            | C   | ooling *4         | kW       | 0.05                                     | 0.08                          |  |  |  |  |  |
| consun           | nption H  | eating            | kW       | 0.04                                     | 0.07                          |  |  |  |  |  |
| C                | Cooling *4  |                   | A        | 0.37                                     | 0.58                          |  |  |  |  |  |
| Curren           | " H   | eating            | A        | 0.30                                     | 0.51                          |  |  |  |  |  |
| Externa          | al finish(I   | Munsell N         | lo.)     | Plastic (1.0                             | DY 9.2/0.2)                   |  |  |  |  |  |
| Dimens           | sion H x  | WxD               | mm(in.)  | 365 x 1,170 x 295 (14-                   | 3/8 x 46-1/16 x 11-5/8)       |  |  |  |  |  |
| Net we           | eight   |                   | kg(lbs.) | 21 (                                     | (46)                          |  |  |  |  |  |
| Heat ex          | xchange   | r                 |          | Cross fin (Aluminum fin and copper tube) |                               |  |  |  |  |  |
|                  | Type x  | Quantity          |          | Line flow                                | v fan x 1                     |  |  |  |  |  |
|                  | Airflow   | *2                | m³/min   | 16-20                                    | 20-26                         |  |  |  |  |  |
| Fan              |   | Tale              | L/s      | 267-333                                  | 333-433                       |  |  |  |  |  |
|                  | (LO-11)   |                   | cfm      | 565-706                                  | 706-918                       |  |  |  |  |  |
|                  | External sta  | atic pressure     | Pa       | (  |                               |  |  |  |  |  |
| Motor            | Туре  |                   |          | DC n                                     | notor                         |  |  |  |  |  |
| WOLUI            | Output  |                   | kW       | 0.0                                      | 56                            |  |  |  |  |  |
| Air filte        | r   |                   |          | PP Hon                                   |                               |  |  |  |  |  |
|                  |   | Gas               | mm(in.)  | ø15.88 (ø5/8)                            | ø15.88 (ø5/8) / ø19.05 (ø3/4) |  |  |  |  |  |
| Refrige          | erant   | (Flare)           | ()       | 13.88 (85/6)                             | (Compatible)                  |  |  |  |  |  |
| pipe dia         | ameter  | Liquid<br>(Flare) | mm(in.)  | ø9.52                                    | (ø3/8)                        |  |  |  |  |  |
| Field dr         | rain pipe   | diameter          | mm(in.)  | I.D. 10                                  | 6(5/8)                        |  |  |  |  |  |
| Sound<br>(Lo-Hi) | pressure  | e level<br>*2 *3  | dB(A)    | 39-45                                    | 41-49                         |  |  |  |  |  |

#### Notes:

- Cooling/heating capacity indicates the maximum value at operation under the following condition. Cooling Indoor : 27°C(81°F)DB/19°C(66°F)WB, Outdoor : 35°C(95°F)DB Heating Indoor : 20°C(68°F)DB, Outdoor : 7°C(45°F)DB/6°C(43°F)WB
- \*2 Airflow rate/Sound pressure level are in (low-high).
- \*3 It is measured in anechoic room
- \*4 Electrical characteristic of cooling are included optional drain-pump.
- \*5 Reference data under condition of Indoor 27°C(81°F)DB/19.5°C(67°F)WB, Outdoor 35°C(95°F)DB

Indoor unit

## **INDOOR UNIT** Floor standing exposed

## PFFY-P VKM-E2

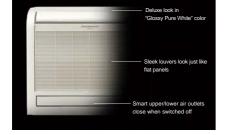


For living rooms, bed rooms, or offices where a sophisticated design is required. The latest Mitsubishi innovation - floor-standing air-conditioner sophisticated in design, rich in function.



#### Sophisticated Design

From Mitsubishi Electric, an innovative new floor-standing air-conditioner. Our pleasing mix of streamlined form and diversified function. Engineered to



keep room walls free, furnish comfy cooling in summer, toasty heating in winter.

The "Glossy Pure White" colour ensures a deluxe look, the perfect match for any room. Both upper and lower air outlets remain closed when switched OFF, in a smart and striking image.

A superb new air-conditioner from Mitsubishi, providing a handsome fit for your own distinctive interior.

#### Slim but Mighty

The unit body is slim and trim, the essence in compact. An ideal size for living rooms, bedrooms, and more. The removable and washable front panel makes cleaning a snap. Easy and regular cleaning



allows your air-conditioner stay beautiful while keeping its energy-efficient operation always possible.

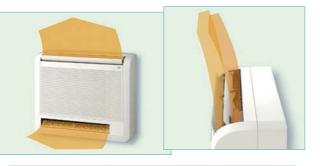
Quiet operation

Mitsubishi Electric air conditioners have always been some of the quietest models available in the market. Our new floorstanding models are no exception. It can create a silent and comfortable space where the occupants would not even recognize the existence of air conditioner operation. ONLY 27dB \*2.5kw clas

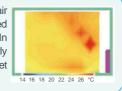
#### **Optimum Air Distribution**

Comfy room temperatures are realized by the optimum, powerful and efficient air distribution through upper and lower air outlets. The upper vane angle is remote controllable, with 5 air flow direction levels (+Swing and Auto modes) and 4 wind power levels (+Auto mode).

By setting the vane angle almost vertical, annoying direct wind can be avoided for your better comfort.



The air from both upper and lower air outlets is optimally controlled and distributed evenly to every corner of the room. In heating mode, the warm air is smartly controlled to stay at the floor level: Your feet do not feel chilled any more!



## ► Specifications

|              |                      |                      |          | PFFY-P20VKM-E2                                 | PFFY-P25VKM-E2   | PFFY-P32VKM-E2        | PFFY-P40VKM-E2   |  |  |  |  |  |
|--------------|----------------------|----------------------|----------|--|------------------|-----------------------|------------------|--|--|--|--|--|
| Power        | source               |                      |          |  | 1-phase 220      | -240V 50Hz            |                  |  |  |  |  |  |
| Caslin       | ~ ~ ~ ~ ~ ~ ~        | *1                   | kW       | 2.2  | 2.8              | 3.6                   | 4.5              |  |  |  |  |  |
| Coolini      | g capacit            | <sup>ty</sup> *1     | BTU/h    | 7,500  | 9,600            | 12,300                | 15,400           |  |  |  |  |  |
| Cooling      | g capacit            |                      | kW       | 2.2  | 2.8              | 3.7                   | 4.6              |  |  |  |  |  |
| Heating      | g capaci             | *1                   | kW       | 2.5  | 3.2              | 4.0                   | 5.0              |  |  |  |  |  |
| Tieauni      | y capaci             | <sup>ty</sup> *1     | BTU/h    | 8,500  | 10,900           | 13,600                | 17,100           |  |  |  |  |  |
| Power        |                      | Cooling              | kW       | 0.025  | 0.025            | 0.025                 | 0.028            |  |  |  |  |  |
| consur       | nption               | Heating              | kW       | 0.025  | 0.025            | 0.025                 | 0.028            |  |  |  |  |  |
| Curren       | +                    | Cooling              | A        | 0.20   | 0.20             | 0.20                  | 0.24             |  |  |  |  |  |
| Cullen       | it i                 | Heating              | A        | 0.20   |                  |                       |                  |  |  |  |  |  |
| Externa      | al finish            |                      |          | Plastic (Pure white)                           |                  |                       |                  |  |  |  |  |  |
| Dimension mm |                      |                      |          | 600 x 700 x 200                                |                  |                       |                  |  |  |  |  |  |
| HxW          | хD                   |                      | in.      |  | 23-5/8 x 27-     | 9/16 x 7-7/8          |                  |  |  |  |  |  |
| Net we       | eight                |                      | kg(lbs.) |  | 15 (             | (34)                  |                  |  |  |  |  |  |
| Heat ex      | xchange              | r                    |          | Cross fin (Alminium plate fin and copper tube) |                  |                       |                  |  |  |  |  |  |
|              | Type x               | Quantity             |          |  | Line flow        | Line flow fan x 2     |                  |  |  |  |  |  |
| Fan          |                      | rate *2<br>d-Hi-SHi) | m³/min   | 5.9-6.8-7.6-8.7                                | 6.1-7.0-8.0-9.1  | 6.1-7.0-8.0-9.1       | 8.0-9.0-9.5-10.7 |  |  |  |  |  |
|              | Eaterna              | al static<br>re      | Ра       |  | (                | )                     |                  |  |  |  |  |  |
|              | Туре                 |                      |          |  | DC n             | notor                 |                  |  |  |  |  |  |
| Motor        | Output               |                      | kW       |  | 0.03             | x 2                   |                  |  |  |  |  |  |
| Air filte    | r                    |                      |          |  | PP honeycomb fab | ric (Catechin Filter) |                  |  |  |  |  |  |
| Refrige      | erant                | Gas(Flare)           | mm(in.)  |  | ø12.7            | (ø1/2)                |                  |  |  |  |  |  |
| pipe dia     | ameter               | Liquid(Flare)        | mm(in.)  |  | ø6.35            | (ø1/4)                |                  |  |  |  |  |  |
| Field d      | rain pipe            | diamete              | r        |  | I.D.16           | 6 (5/8)               |                  |  |  |  |  |  |
|              | pressure<br>d-Hi-SHi |                      | dB(A)    | 27-31-34-37                                    | 28-32-35-38      | 28-32-35-38           | 35-38-42-44      |  |  |  |  |  |

Notes:

- \*1 Cooling/heating capacity indicates the maximum value at operation under the following condition. Cooling Indoor : 27°C(81°F)DB/19°C(66°F)WB, Outdoor : 35°C(95°F)DB Heating Indoor : 20°C(68°F)DB, Outdoor : 7°C(45°F)DB/6°C(43°F)WB
- \*2 Airflow rate/Sound pressure level are in (low-middle-high-shigh).
- \*3 It is measured in anechoic room.
- \*4 Reference data under condition of Indoor 27°C(81°F)DB/19.5°C(67°F)WB, Outdoor 35°C(95°F)DB



## **INDOOR UNIT** Floor standing exposed

## PFFY-P VLEM-E



A compact cased unit providing simple, effective air conditioning in perimeter zones.



Its basic design is suitable for various locations such as offices, shops, and hospitals. A remote controller can be mounted on the unit on site.

#### Compact unit for easy air conditioning in perimeter zones.

The unit is easy to install, and at only 220mm (8-11/16 in.) deep offers an unobtrusive method of delivering highly efficient air conditioning performance.

## ► Specifications

|                         |                 |                             |          | PFFY-P20VLEM-E              | PFFY-P25VLEM-E | PFFY-P32VLEM-E   | PFFY-P40VLEM-E           | PFFY-P50VLEM-E | PFFY-P63VLEM- |  |
|-------------------------|-----------------|-----------------------------|----------|-----------------------------|----------------|--|--------------------------|----------------|---------------|--|
| Power                   | source          |                             |          |                             | 1-r            | ohase 220-240V 50Hz /  | 1-phase 208-230V 60      | Hz             |               |  |
| 0                       |                 | *1                          | kW       | 2.2                         | 2.8            | 3.6  | 4.5                      | 5.6            | 7.1           |  |
| Coolin                  | g capacit       | y *1                        | BTU/h    | 7,500                       | 9,600          | 12,300   | 15,400                   | 19,100         | 24,200        |  |
| Cooling                 | g capacit       | y *5                        | kW       | 2.2                         | 2.8            | 3.7  | 4.6                      | 5.7            | 7.2           |  |
| Lleatin                 | q capacit       | . *1                        | kW       | 2.5                         | 3.2            | 4.0  | 5.0                      | 6.3            | 8.0           |  |
| neaun                   | g capaci        | <sup>.y</sup> *1            | BTU/h    | 8,500                       | 10,900         | 13,600   | 17,100                   | 21,500         | 27,300        |  |
| Power                   |                 | Cooling                     | kW       | 0.04                        | / 0.06         | 0.06 / 0.07  | 0.065 / 0.075            | 0.085 / 0.09   | 0.1 / 0.11    |  |
| consu                   | mption          | Heating                     | kW       | 0.04                        | / 0.06         | 0.06 / 0.07  | 0.065 / 0.075            | 0.085 / 0.09   | 0.1 / 0.11    |  |
| Curren                  |                 | Cooling                     | Α        | 0.19                        | / 0.25         | 0.29 / 0.30  | 0.32 / 0.33              | 0.40 / 0.41    | 0.46 / 0.47   |  |
| Curren                  | IT              | Heating                     | Α        | 0.19                        | / 0.25         | 0.29 / 0.30  | 0.32 / 0.33              | 0.40 / 0.41    | 0.46 / 0.47   |  |
| Extern                  | al finish(I     | Munsell N                   | No.)     |                             |                | Acrylic pai  | nt (5Y 8/1)              |                |               |  |
| D:                      |                 | W D                         | mm       | 630 x 1,0                   | 050 x 220      | 630 x 1,1  | 70 x 220                 | 630 x 1,4      | 410 x 220     |  |
| Dimension H x W x D in. |                 | 24-13/16 x 41-3/8 x 8-11/16 |          | 24-13/16 x 46-1/8 x 8-11/16 |                | 24-13/16 x 55  | -9/16 x 8-11/16          |                |               |  |
| Net weight kg(lbs.)     |                 |                             | kg(lbs.) | 23                          | (51)           | 25 (56)  | 26 (58)                  | 30 (67)        | 32 (71)       |  |
| Heat e                  | Heat exchanger  |                             |          |                             | (              | Cross fin (Aluminum pla  | te fin and copper tube   |                | •             |  |
|                         | Type x Quantity |                             |          | Sirocco                     | fan x 1        |  | Sirocco                  | fan x 2        |               |  |
|                         | A               |                             | m³/min   | 5.5                         | -6.5           | 7.0-9.0  | 9.0-11.0                 | 12.0-14.0      | 12.0-15.5     |  |
| Fan                     | AITIOW          | rate *2                     | L/s      | 92-                         | 108            | 117-150  | 150-183                  | 200-233        | 200-258       |  |
|                         | (Lo-Hi)         |                             | cfm      | 194                         | -230           | 247-318 318-388  |                          | 424-494        | 424-547       |  |
|                         | External sta    | atic pressure               | Pa       |                             |                | 0  |                          |                |               |  |
| Motor                   | Туре            |                             |          |                             |                | 1-phase indu   | uction motor             |                |               |  |
| NOTOL                   | Output          |                             | kW       | 0.0                         | )15            | 0.018  | 0.030                    | 0.035          | 0.050         |  |
| Air filte               | er              |                             |          |                             |                | PP Honeycomb f   | abric (washable)         |                | •             |  |
| Refrige                 | erant           | Gas<br>(Flare)              | mm(in.)  |                             |                | ø12.7 (ø1/2)   |                          |                | ø15.88 (ø5/8) |  |
| -                       | ameter          | Liquid<br>(Flare)           | mm(in.)  |                             |                | ø6.35 (ø1/4)   |                          |                | ø9.52 (ø3/8)  |  |
| Field d                 | rain pipe       | diameter                    | mm(in.)  |                             | I.D.26 (1)     | <accessory hose="" o.d.2<="" td=""><td>27 (1-3/32) (top end :20</td><td>(13/16))&gt;</td><td></td></accessory> | 27 (1-3/32) (top end :20 | (13/16))>      |               |  |
|                         | pressure        |                             | dB(A)    | 34                          | -40            | 35-40  | 38-43                    |                | 40-46         |  |

Notes:

- \*1 Cooling/Heating capacity indicates the maximum value at operation under the following condition. Cooling Indoor : 27°C(81°F)DB/19°C(66°F)WB,Outdoor 35°C(95°F)DB Heating Indoor : 20°C(68°F)DB, Outdoor 7°C(45°F)DB/6°C(43°F)WB
- \*2 Air flow rate/Sound pressure level are in (Low-High)
- \*3 Measured point : 1m x 1m, Power supply : AC240V/50Hz 1dB(A) lower at AC230V/50Hz
  2dB(A) lower at AC220V/50Hz · 3dB(A) lower at 1.5m x 1.5m point
- \*4 It is measured in anechoic room.
- \*5 Reference data under condition of Indoor 27°C(81°F)DB/19.5°C(67°F)WB, Outdoor 35°C(95°F)DB

Indoor unit

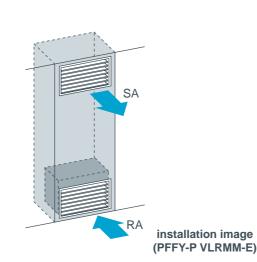
## **INDOOR UNIT** Floor mounted concealed type

## PFFY-P VLRM-E PFFY-P VLRMM-E



## Easily installable floor-standing concealed unit for perimeter zone





#### Compact unit for easy air conditioning in perimeter zones.

The unit is designed for applications requiring a built-in, concealed, floor-standing unit.

#### Installation flexibility

The unit can be field-converted from top discharge to front discharge to increase installation flexibility.

#### Maximum external static pressure 60Pa (VLRMM model)

The additional external static pressure capacity provides flexibility for duct extension, branching, and air outlet configuration.



## ► Specifications

|                          |                 |                     |                              | PFFY-P20VLRM-E | PFFY-P25VLRM-E             | PFFY-P32VLRM-E   | PFFY-P40VLRM-E           | PFFY-P50VLRM-E | PFFY-P63VLRM- |  |
|--------------------------|-----------------|---------------------|------------------------------|----------------|----------------------------|--|--------------------------|----------------|---------------|--|
| Power                    | source          |                     |                              |                | 1-p                        | hase 220-240V 50Hz /   | 1-phase 208-230V 60      | Hz             |               |  |
| 0                        |                 | *1                  | kW                           | 2.2            | 2.8                        | 3.6  | 4.5                      | 5.6            | 7.1           |  |
| Cooling                  | g capacit       | y *1                | BTU/h                        | 7,500          | 9,600                      | 12,300   | 15,400                   | 19,100         | 24,200        |  |
| Cooling                  | g capacit       | y *5                | kW                           | 2.2            | 2.8                        | 3.7  | 4.6                      | 5.7            | 7.2           |  |
| Lleatin                  | ~ ~ ~ ~ ~ ~ ~ ~ | *1                  | kW                           | 2.5            | 3.2                        | 4.0  | 5.0                      | 6.3            | 8.0           |  |
| neaung                   | g capacit       | <sup>.y</sup> *1    | BTU/h                        | 8,500          | 10,900                     | 13,600   | 17,100                   | 21,500         | 27,300        |  |
| Power                    |                 | Cooling             | kW                           | 0.04           | / 0.06                     | 0.06 / 0.07  | 0.065 / 0.075            | 0.085 / 0.09   | 0.1 / 0.11    |  |
| consu                    | mption          | Heating             | kW                           | 0.04           | / 0.06                     | 0.06 / 0.07  | 0.065 / 0.075            | 0.085 / 0.09   | 0.1 / 0.11    |  |
| Curren                   | .+              | Cooling             | A                            | 0.19           | / 0.25                     | 0.29 / 0.30  | 0.32 / 0.33              | 0.40 / 0.41    | 0.46 / 0.47   |  |
| Curren                   | ii.             | Heating             | A                            | 0.19           | / 0.25                     | 0.29 / 0.30  | 0.32 / 0.33              | 0.40 / 0.41    | 0.46 / 0.47   |  |
| Externa                  | al finish(l     | Munsell N           | No.)                         |                | Galvanized steel plate     |  |                          |                |               |  |
| Dimension H x W x D mm   |                 |                     |                              | 639 x 8        | 86 x 220                   | 639 x 1,0  | 06 x 220                 | 639 x 1,       | 246 x 220     |  |
| Dimension H X VV X D in. |                 | in.                 | 25-3/16 x 34-15/16 x 8-11/16 |                | 25-3/16 x 39-5/8 x 8-11/16 |  | 25-3/16 x 49-            | 1/16 x 8-11/16 |               |  |
| Net weight kg(lbs.)      |                 |                     | kg(lbs.)                     | 18.5           | (41)                       | 20 (45)  | 21 (47)                  | 25 (56)        | 27 (60)       |  |
| Heat ex                  | Heat exchanger  |                     |                              |                | (                          | Cross fin (Aluminum pla  | te fin and copper tube   |                | •             |  |
|                          | Type x          | Quantity            |                              | Sirocco        | fan x 1                    |  | Sirocco                  | fan x 2        |               |  |
|                          | Airflow         | *2                  | m³/min                       | 5.5-6.5        |                            | 7.0-9.0  | 9.0-11.0                 | 12.0-14.0      | 12.0-15.5     |  |
| Fan                      | 1               | rate                | L/s                          | 92-            | 108                        | 117-150  | 150-183                  | 200-233        | 200-258       |  |
|                          | (Lo-Hi)         |                     | cfm                          | 194-230        |                            | 247-318 318-388  |                          | 424-494        | 424-547       |  |
|                          | External st     | atic pressure       | Pa                           |                |                            | . (  | )                        |                |               |  |
| Motor                    | Туре            |                     |                              |                |                            | 1-phase indu   | uction motor             |                |               |  |
| WOLOI                    | Output          |                     | kW                           | 0.0            | )15                        | 0.018  | 0.030                    | 0.035          | 0.050         |  |
| Air filte                | r               |                     |                              |                |                            | PP Honeycomb f   | abric (washable)         |                |               |  |
| Refrige                  | erant           | Gas<br>(Flare)      | mm(in.)                      |                |                            | ø12.7 (ø1/2)   |                          |                | ø15.88 (ø5/8) |  |
| pipe di                  | ameter          | Liquid<br>(Flare)   | mm(in.)                      |                |                            | ø6.35 (ø1/4)   |                          |                | ø9.52 (ø3/8)  |  |
| Field dr                 | rain pipe       | diameter            | mm(in.)                      |                | I.D.26 (1)                 | <accessory hose="" o.d.2<="" td=""><td>27 (1-3/32) (top end :20</td><td>) (13/16))&gt;</td><td></td></accessory> | 27 (1-3/32) (top end :20 | ) (13/16))>    |               |  |
| Sound<br>(Lo-Hi)         | pressure        | e level<br>*2 *3 *4 | dB(A)                        | 34             | 34-40                      |  | 35-40 38-43              |                | 40-46         |  |

#### Notes:

\*1 Cooling/Heating capacity indicates the maximum value at operation under the following condition. Cooling Indoor : 27°C(81°F)DB/19°C(66°F)WB, Outdoor 35°C(95°F)DB Heating Indoor : 20°C(68°F)DB, Outdoor 7°C(45°F)DB/6°C(43°F)WB

- \*2 Air flow rate/Sound pressure level are in (Low-High)
- \*3 Measured point : 1m x 1m, Power supply : AC240V/50Hz · 1dB(A) lower at AC230V/50Hz · 2dB(A) lower at AC220V/50Hz
- \*4 It is measured in anechoic room.
- \*5 Reference data under condition of Indoor 27°C(81°F)DB/19.5°C(67°F)WB, Outdoor 35°C(95°F)DB

|                        |                         |               |          | PFFY-P20VLRMM-E | PFFY-P25VLRMM-E             | PFFY-P32VLRMM-E  | PFFY-P40VLRMM-E                     | PFFY-P50VLRMM-E | PFFY-P63VLRMM-E      |  |  |  |  |
|------------------------|-------------------------|---------------|----------|-----------------|-----------------------------|--|-------------------------------------|-----------------|----------------------|--|--|--|--|
| Power                  | source                  |               |          | -               | 1-r                         | hase 220-240V 50Hz /   | 1-phase 220-240V 60                 | Hz              |                      |  |  |  |  |
|                        |                         | *1            | kW       | 2.2             | 2.8                         | 3.6  | 4.5                                 | 5.6             | 7.1                  |  |  |  |  |
| Cooling                | g capacit               | y *1          | BTU/h    | 7,500           | 9,600                       | 12,300   | 15,400                              | 19,100          | 24,200               |  |  |  |  |
| Cooling                | g capacit               | y *4          | kW       | 2.2             | 2.8                         | 3.7  | 4.6                                 | 5.7             | 7.2                  |  |  |  |  |
| Lleatin                | ~ ~~~~                  | . *1          | kW       | 2.5             | 3.2                         | 4.0  | 5.0                                 | 6.3             | 5.7                  |  |  |  |  |
| neaun                  | g capacit               | y *1          | BTU/h    | 8,500           | 10,900                      | 13,600   | 17,100                              | 21,500          | 8.0                  |  |  |  |  |
| Power                  |                         | Cooling       | kW       | 0.              | 04                          | 0.04   | 0.05                                | 0.05            | 27,300               |  |  |  |  |
| consu                  | mption                  | Heating       | kW       | 0.              | 04                          | 0.04   | 0.05                                | 0.05            | 0.07                 |  |  |  |  |
| Curren                 |                         | Cooling       | Α        | 0.              | 34                          | 0.38   | 0.43                                | 0.48            | 0.07                 |  |  |  |  |
| Curren                 | ıı                      | Heating       | Α        | 0.              | 34                          | 0.38   | 0.43                                | 0.48            | 0.59                 |  |  |  |  |
| Externa                | al finish(N             | Munsell N     | No.)     |                 | Galvanized steel plate 0.59 |  |                                     |                 |                      |  |  |  |  |
| Dimension H x W x D mm |                         |               |          | 639 x 8         | 86 x 220                    | 639 x 1,0  | 06 x 220                            | 639 x 1,2       | 246 x 220            |  |  |  |  |
| Dimen                  | Dimension H X W X D in. |               | in.      | 25-3/16 x 34-1  | 5/16 x 8-11/16              | 25-3/16 x 39-  | 5/8 x 8-11/16                       | 25-3/16 x 49-   | ·1/16 x 8-11/16      |  |  |  |  |
| Net we                 | eight                   |               | kg(lbs.) | 18.5            | (41)                        | 20 (45)  | 21 (47)                             | 25 (56)         |                      |  |  |  |  |
| Heat e                 | xchanger                | r             |          |                 | (                           | Cross fin (Aluminum pla  | ate fin and copper tube             | )               | 27 (60)              |  |  |  |  |
|                        | Type x (                | Quantity      |          | Sirocco         | fan x 1                     |  | Sirocco                             | fan x 2         |                      |  |  |  |  |
|                        | Airflow                 | roto          | m³/min   | 4.5-5           | .5-6.5                      | 6.5-7.5-9.0  | 8.0-9.5-11.0                        | 10.0-12.0-14.0  | 11.0-13.0-15.5       |  |  |  |  |
| Fan                    | (Lo-Mid-H               |               | L/s      | 75-92           | 2-108                       | 108-125-150  | 133-158-183                         | 167-200-233     | 183-217-258          |  |  |  |  |
|                        | (LO-IVIIQ-F             | 11)           | cfm      | 159-1           | 94-230                      | 230-265-318  | 230-265-318 282-335-388 353-424-494 |                 |                      |  |  |  |  |
|                        | External static         | c pressure +2 | Pa       |                 |                             | 20/4   | 0/60                                |                 |                      |  |  |  |  |
| Motor                  | Туре                    |               |          |                 |                             | DC brushl  | ess motor                           |                 |                      |  |  |  |  |
| WOLUI                  | Output                  |               | kW       |                 |                             | 0.0  | 96                                  |                 |                      |  |  |  |  |
| Air filte              | er                      |               |          |                 |                             | PP Honeycomb f   | abric (washable)                    |                 |                      |  |  |  |  |
| Refrige                | erant                   | Gas           | mm(in.)  |                 |                             | ø12.7 (ø1/   | 2) Brazed                           |                 | ø15.88 (ø5/8) Brazed |  |  |  |  |
| pipe di                | ameter                  | Liquid        | mm(in.)  |                 |                             | ø6.35 (ø1/   | <ol><li>Brazed</li></ol>            |                 | ø9.52 (ø3/8) Brazed  |  |  |  |  |
| Field d                | rain pipe o             | diameter      | mm(in.)  |                 | I.D.26 (1)                  | <accessory hose="" o.d.2<="" td=""><td>27 (1-3/32) (top end :20</td><td>) (13/16))&gt;</td><td></td></accessory> | 27 (1-3/32) (top end :20            | ) (13/16))>     |                      |  |  |  |  |
| Sound p                | pressure                | 20Pa          | dB(A)    | 31-3            | 6-40                        | 27-32-37   | 30-36-40                            | 32-37-41        | 35-40-44             |  |  |  |  |
| level (L               | o-Mid-Hi)               | 40Pa          | dB(A)    | 34-3            | 9-42                        | 30-35-41   | 32-38-42                            | 35-40-44        | 36-42-47             |  |  |  |  |
|                        | *3                      | 60Pa          | dB(A)    | 35-4            | 0-43                        | 32-37-42   | 3.5-39-44                           | 36-41-45        | 38-43-48             |  |  |  |  |

#### Notes:

\*1 Cooling/Heating capacity indicates the maximum value at operation under the following condition. Cooling Indoor : 27°C(81°F)DB/19°C(66°F)WB, Outdoor 35°C(95°F)DB Heating Indoor : 20°C(68°F)DB, Outdoor 7°C(45°F)DB/6°C(43°F)WB pipe length : 7.5m(24-9/16ft) Height difference : 0m(0ft)

\*2 The external static pressure is set to 20Pa at factory shipment.

\*3 The sound pressure level in operation is measured at 1m apart from the front side and the bottom side of the unit in anechoic room.

(Noise meter A-scale value) Connect the duct of 1m in length to the air outlet.

\*4 Reference data under condition of Indoor 27°C(81°F)DB/19.5°C(67°F)WB, Outdoor 35°C(95°F)DB

Indoor unit

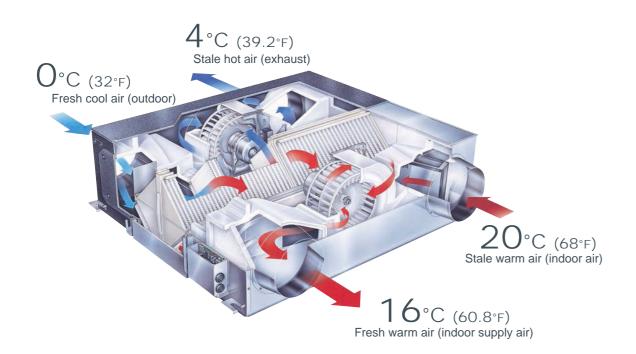
3dB(A) lower at 1.5m x 1.5m point

## 



### The Ventilation System for Enhanced Air Quality - Lossnay

Combine with Lossnay Ventilation System Enhanced Air Quality. Unified Control System Allows Greater Design Freedom.



LGH-15RX5 [150m<sup>3</sup>/h Single phase 220-240V 50Hz] **LGH-25RX5** [250m<sup>3</sup>/h Single phase 220-240V 50Hz] **LGH-35RX5** [350m<sup>3</sup>/h Single phase 220-240V 50Hz] LGH-50RX5 [500m<sup>3</sup>/h Single phase 220-240V 50Hz] **LGH-65RX5** [650m<sup>3</sup>/h Single phase 220-240V 50Hz]

LGH-80RX5 [800m<sup>3</sup>/h Single phase 220-240V 50Hz] LGH-100RX5 [1000m<sup>3</sup>/h Single phase 220-240V 50Hz] LGH-150RX5 [1500m<sup>3</sup>/h Single phase 220-240V 50Hz] LGH-200RX5 [2000m<sup>3</sup>/h Single phase 220-240V 50Hz]

### Heat-Exchange Efficiency Obtainable Only with Lossnay.

The secret to the unmatched comfort provided by Lossnay core is the cross-flow, plate-fin structure off the heat-exchange unit. A diaphragm made of a specially processed paper fully separates inducted and exhausted air supplies, ensuring that only fresh air is introduced to the indoor environment.

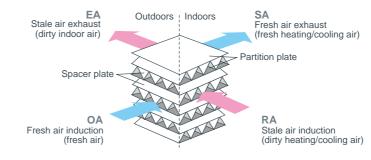
The superior heat-transfer and moisture permeability of the special paper assure highly effective total heat exchange (temperature and humidity) when inducted and exhausted air supplies cross in the Lossnay core.

### LOSSNAY Technology

#### • Two paths ventilation

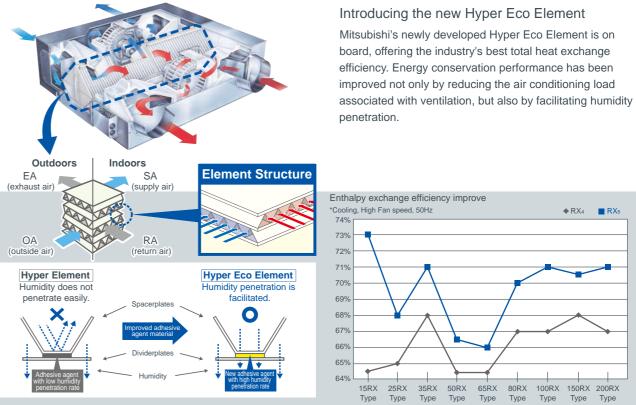
- LOSSNAY simultaneously intakes Fresh Air and exhausts Dirty Air.
- Total energy recover LOSSNAY returns BOTH sensible heat and latent heat.

#### A. Two paths ventilation



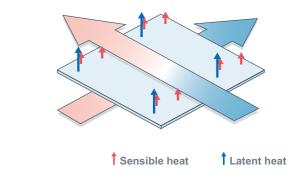
#### Hyper Eco Core

Better energy conservation by improved total heat exchange efficiency.





#### **B.** Total Energy transfer



Indoor unit



#### Why LOSSNAY is necessary.

#### • Without ventilation...

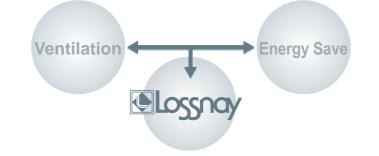
Lack of Ventilation makes people sick by dirty indoor air including CO<sub>2</sub>, Dust, Bacteria.

#### • If just opening windows...

Opening windows eliminates dirty air BUT wastes much air-con energy.

#### So we recommend LOSSNAY

LOSSNAY is simultaneous pursuit of Ventilation and Energy Saving.



#### **Extra Low Mode**

Additional energy conservation by using a four-level air volume system that allows more precise control.

In addition to the conventional Extra High, High, and Low modes, an Extra Low mode is added to provide a more dynamic range of air volume settings and versatility in a variety of installation environments, yielding much better energy conservation. Using a simplified timer function, it switches to Extra Low operation when the operation stop button is activated and it is accordingly possible to implement 24-hour energy conservation ventilation.

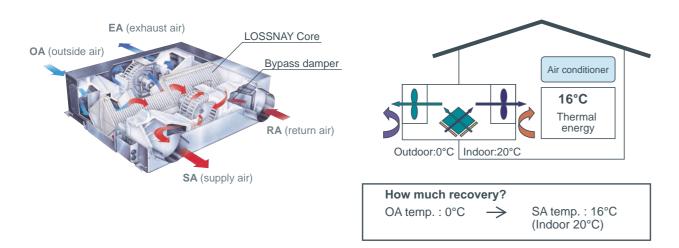
#### • This is LOSSNAY !

ADVANTAGES

Clean air supply, dirty air exhaust by Two air paths (OA→ SA and RA→ EA)
 Energy recovery by LOSSNAY Core
 Free cooling by bypass damper
 MULTI VENTILATION MODE for multi ventilation request (Power supply, Power supply/exhaust, Power exhaust)

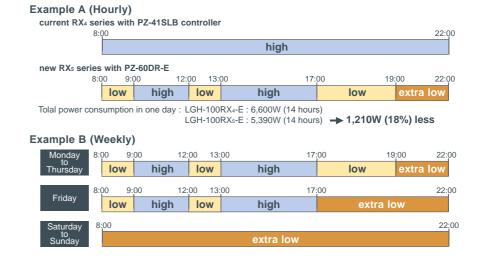
#### **UNIT STRUCTURE**

**Energy Recovery Image** 

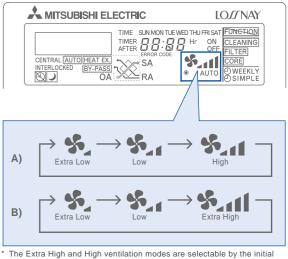


### Energy Saving by OWEEKLY timer

Air volume level can be set hourly (max 8 times) and weekly. You can pre-set air volume according to the predictable requirement so that LOSSNAY can automatically operate at only necessary air-speed at the specified time period, which saves power consumption while maintaining the indoor air quality. Besides, once the weekly timer has been set, no switching on-off is required.



Indoor unit



setting.

\* Extra-Low not equipped LGH-150RXs and 200RXs.
 \* The ventilation mode is actually selected in three levels, and the remote controller also displays these three levels.

## New function: "By-pass" Ventilation External Control Setting

In addition to the automatic damper open/close function, open/close control via external devices is now possible, delivering a "By-pass" ventilation system that is suitable to the installed environment.

Establish the wire connection by inserting the optional remote display adaptor (PAC-SA88HA-E) in the connector CN16 (Ventilation mode selector).

With SW1 is "ON", the ventilation mode of LOSSNAY is changed to the By-pass ventilation regardless of the setting on the remote controller.

#### •Automatic ventilation setting

The automatic damper mode automatically provides the correct ventilation for the conditions in the room. The following shows the effect "By-pass" ventilation will have under various conditions.

#### 1. Reduces cooling load

If the air outside is cooler than the air inside the building during the cooling season (such as early morning or at night), "By-pass" ventilation will draw in the cooler outside air and reduce the cooling load on the system.

#### "By-pass" operation Control devices (example) · Temperature sensor · Humidity sensor · Timers nal) PAC\_SA88 Brown 1 Red 2 Orange 3 Yellow 4 SW Green 5 SW1: By-pass v Not used. Insulate completel sed: For By-pass vent

2. Night purge

"By-pass" ventilation can be used to release hot air from inside the building that has accumulated in buildings a business district during the hot summer season.

Max wiring length 10 n

3. Office equipment room cooling

During cold season, fresh air can be drawn in and used as is to cool rooms where the temperature has risen due to the use of office equipment.

\* When the outdoor air tempereture drops lower than 8°C it changes to the heat exchange ventilation. (Display of the remote controller does not change.) \* In the case of "By-pass" ventilation, the supply air temperature slightly rises more than the outside air temperature because of the heat effect around the ducts or the unit motors

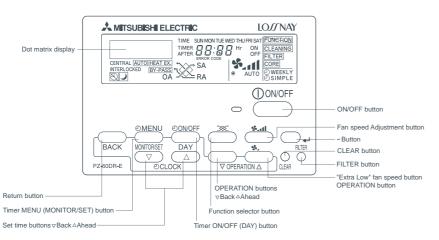
#### **New Remote Controller PZ-60DR-E**

A new remote controller for the RX5 series is now available. In addition to boosting the energy conservation performance of the main unit, the remote controller features a variety of new functions which also pursue additional energy conservation.

The appearance of the remote controller conforms to Mitsubishi air conditioner interface design standards.

Functions that were set using Dip-Switch on the LOSSNAY main unit can now be configured as needed using the new remote controller. This eliminates the need to crawl under the eaves to change operation settings.

Also, a newly adopted dot matrix display provides much more information, making it easy to check maintenance indications, operation status display, and explanations required when configuring settings.



#### Model line up

#### Specification

#### LGH-15RX₅-E

| Model  |                      |            |           |             | LGH-1           | 5RX₅-E        |            |            |           |
|--|----------------------|------------|-----------|-------------|-----------------|---------------|------------|------------|-----------|
| Frequency / Power source   |                      |            |           |             | 50Hz / Single p | hase 220-240V |            |            |           |
| Ventilation mode   |                      |            | LOSSNAY   | ventilation |                 |               | By-pass ve | entilation |           |
| Fan speed  |                      | Extra High | High      | Low         | Extra Low       | Extra High    | High       | Low        | Extra Low |
| Current (A)  |                      | 0.44-0.46  | 0.37-0.38 | 0.25-0.25   | 0.14-0.15       | 0.45-0.46     | 0.37-0.38  | 0.25-0.26  | 0.14-0.15 |
| Power consumption (W)  |                      | 96-110     | 80-90     | 53-59       | 30-35           | 97-110        | 81-91      | 54-61      | 30-35     |
| Air volume   | (m³/h)               | 150        | 150       | 110         | 70              | 150           | 150        | 110        | 70        |
| Air volume   | (L/s)                | 42         | 42        | 31          | 19              | 42            | 42         | 31         | 19        |
| External static pressure   | (mmH <sub>2</sub> O) | 10.2-10.7  | 6.6-7.1   | 3.6-4.1     | 1.4             | 10.2-10.7     | 6.6-7.1    | 3.6-4.1    | 1.4       |
| External static pressure   | (Pa)                 | 100-105    | 65-70     | 35-40       | 14              | 100-105       | 65-70      | 35-40      | 14        |
| Temperature exchange efficiency  | (%)                  | 82.0       | 82.0      | 84.0        | 85.5            | —             | —          | —          | —         |
| Enthalpy exchange efficiency (%)   | Heating              | 75.0       | 75.0      | 77.5        | 81.0            | —             | —          | —          | —         |
| Enthalpy exchange enciency (76)  | Cooling              | 73.0       | 73.0      | 76.5        | 81.0            | —             | —          | —          | —         |
| Noise (dB) (Measured at 1.5m under the center<br>of panel in an anechoeic chamber) |                      | 27.5-28    | 26.5-27   | 22-23.5     | 18              | 28.5-29       | 27-28      | 23-24      | 18-19     |
| Weight (kg)  |                      |            |           |             | 2               | 20            |            |            |           |
| Starting current   |                      |            |           |             | Under 0         | .8 A Less     |            |            |           |

\*The Air outlets noise (45° angle, 1.5 meters in front of the unit) is about 6 dB greater than the indicated value. (at High Fan speed)

| LGH-25RX₅-E  |                      |                              |           |             |           |            |            |            |           |  |
|--|----------------------|------------------------------|-----------|-------------|-----------|------------|------------|------------|-----------|--|
| Model  |                      |                              |           |             | LGH-2     | 25RX₅-E    |            |            |           |  |
| Frequency / Power source   |                      | 50Hz / Single phase 220-240V |           |             |           |            |            |            |           |  |
| Ventilation mode   |                      |                              | LOSSNAY   | ventilation |           |            | By-pass ve | entilation |           |  |
| Fan speed  |                      | Extra High                   | High      | Low         | Extra Low | Extra High | High       | Low        | Extra Low |  |
| Current (A)  |                      | 0.52-0.55                    | 0.47-0.48 | 0.26-0.27   | 0.17-0.18 | 0.53-0.55  | 0.47-0.48  | 0.26-0.27  | 0.17-0.18 |  |
| Power consumption (W)  |                      | 113-129                      | 102-114   | 56-62       | 36-42     | 115-131    | 103-115    | 56-63      | 36-42     |  |
| Air volume   | (m³/h)               | 250                          | 250       | 155         | 105       | 250        | 250        | 155        | 105       |  |
| Air volume   | (L/s)                | 69                           | 69        | 43          | 29        | 69         | 69         | 43         | 29        |  |
| External static pressure   | (mmH <sub>2</sub> O) | 8.2-8.7                      | 5.1-6.1   | 2-2.5       | 0.9       | 8.2-8.7    | 5.1-6.1    | 2-2.5      | 0.9       |  |
| External static pressure   | (Pa)                 | 80-85                        | 50-60     | 20-25       | 9         | 80-85      | 50-60      | 20-25      | 9         |  |
| Temperature exchange efficiency (  | %)                   | 79.0                         | 79.0      | 81.5        | 83.5      | —          | —          | —          | —         |  |
| Enthalpy exchange efficiency (%)   | Heating              | 69.5                         | 69.5      | 74.0        | 77.5      | —          | —          | —          | —         |  |
| Enthalpy exchange entclency (%)  | Cooling              | 68.0                         | 68.0      | 72.5        | 76.0      | —          | —          | —          | —         |  |
| Noise (dB) (Measured at 1.5m under the center<br>of panel in an anechoeic chamber) |                      | 26-27                        | 25-26     | 20-21.5     | 18-19     | 26.5-27.5  | 25.5-26.5  | 20.5-22    | 18-19     |  |
| Weight (kg)  |                      | 20                           |           |             |           |            |            |            |           |  |
| Starting current   |                      |                              |           |             | Under 0   | .9 A Less  |            |            |           |  |

The Air outlets noise (45° angle,1.5 meters in front of the unit) is about 10 dB greater than the indicated value. (at High Fan speed)

#### 

| -GH-35RX5-E  |                      |                  |                                  |          |                 |                |           |           |           |
|--|----------------------|------------------|----------------------------------|----------|-----------------|----------------|-----------|-----------|-----------|
| Model  |                      |                  |                                  |          | LGH-3           | 35RX₅-E        |           |           |           |
| Frequency / Power source   |                      |                  |                                  |          | 50Hz / Single p | ohase 220-240V |           |           |           |
| Ventilation mode   |                      |                  | LOSSNAY ventilation By-pass vent |          |                 |                |           |           |           |
| Fan speed  |                      | Extra High       | High                             | Low      | Extra Low       | Extra High     | High      | Low       | Extra Low |
| Current (A)  |                      | 0.92-0.92        | 0.74-0.74                        | 0.5-0.51 | 0.28-0.3        | 0.93-0.94      | 0.77-0.77 | 0.51-0.52 | 0.28-0.3  |
| Power consumption (W)  |                      | 195-212          | 160-169                          | 105-116  | 58-69           | 197-217        | 164-173   | 105-116   | 58-69     |
| A *** *** 1  | (m³/h)               | 350              | 350                              | 210      | 115             | 350            | 350       | 210       | 115       |
| Air volume   | (L/s)                | 97               | 97                               | 58       | 32              | 97             | 97        | 58        | 32        |
|  | (mmH <sub>2</sub> O) | 15.8-16.3        | 7.6-8.2                          | 2.5-3.1  | 0.9             | 15.8-16.3      | 7.6-8.2   | 2.5-3.1   | 0.9       |
| External static pressure   | (Pa)                 | 155-160          | 75-80                            | 25-30    | 9               | 155-160        | 75-80     | 25-30     | 9         |
| Temperature exchange efficiency (  | %)                   | 80.0             | 80.0                             | 85.0     | 88.0            | _              | _         | _         | _         |
| <b>F</b> act - Inc   | Heating              | 71.5             | 71.5                             | 76.5     | 81.5            | _              | _         | _         | _         |
| Enthalpy exchange efficiency (%)   | Cooling              | 71.0             | 71.0                             | 75.5     | 81.0            | _              | _         | _         | _         |
| Noise (dB) (Measured at 1.5m under the center<br>of panel in an anechoeic chamber) |                      | 32-32            | 28.5-29.5                        | 21.5-23  | 18              | 32.5-32.5      | 29.5-30.5 | 21.5-24   | 18        |
| Weight (kg)  |                      |                  |                                  |          |                 | 29             |           |           |           |
| Starting current   |                      | Under 2.4 A Less |                                  |          |                 |                |           |           |           |

\*The Air outlets noise (45° angle, 1.5 meters in front of the unit) is about 10 dB greater than the indicated value. (at High Fan speed)

Indoor unit



#### LGH-15~100RX5-E



#### LGH-15~100RX5-E

#### LGH-50RX₅-E

| Model  |                      |            |         |             | LGH-5           | 0RX₅-E                     |           |            |           |
|--|----------------------|------------|---------|-------------|-----------------|----------------------------|-----------|------------|-----------|
| Frequency / Power source   |                      |            |         |             | 50Hz / Single p | hase 220-240V              |           |            |           |
| Ventilation mode   |                      |            | LOSSNAY | ventilation |                 |                            | By-pass v | entilation |           |
| Fan speed  |                      | Extra High | High    | Low         | Extra Low       | Extra High                 | High      | Low        | Extra Low |
| Current (A)  |                      | 1.2-1.25   | 1.0-1.0 | 0.85-0.85   | 0.4-0.4         | 1.25-1.25                  | 1.0-1.0   | 0.85-0.85  | 0.4-0.4   |
| Power consumption (W)  |                      | 255-286    | 207-228 | 175-190     | 80-95           | 260-290 210-230 180-195 80 |           |            |           |
| Air volume (m³/h)  |                      | 500        | 500     | 390         | 180             | 500                        | 500       | 390        | 180       |
| Air volume   | (L/s)                | 139        | 139     | 108         | 50              | 139                        | 139       | 108        | 50        |
| External static pressure   | (mmH <sub>2</sub> O) | 15.3-15.8  | 6.6-9.2 | 4.1-6.1     | 1.0             | 15.3-15.8                  | 6.6-9.2   | 4.1-6.1    | 1.0       |
| External static pressure   | (Pa)                 | 150-155    | 65-90   | 40-60       | 10              | 150-155                    | 65-90     | 40-60      | 10        |
| Temperature exchange efficiency  | (%)                  | 78.0       | 78.0    | 81.0        | 86.0            | —                          | —         | _          | _         |
| Enthalpy exchange efficiency (%)   | Heating              | 69.0       | 69.0    | 71.0        | 78.0            | _                          | —         | -          | -         |
| Enthalpy exchange enciency (%)   | Cooling              | 66.5       | 66.5    | 68.0        | 77.0            | —                          | —         | _          | _         |
| Noise (dB) (Measured at 1.5m under the center<br>of panel in an anechoeic chamber) |                      | 33-34      | 30.5-32 | 26.5-28     | 19              | 34-35                      | 31-32.5   | 27-29      | 19        |
| Weight (kg)  |                      |            |         |             | 3               | 32                         |           |            |           |
| Starting current   |                      |            |         |             | Under 3         | .0 A Less                  |           |            |           |

\*The Air outlets noise (45° angle, 1.5 meters in front of the unit) is about 16 dB greater than the indicated value. (at High Fan speed)

#### LGH-65RX5-E

| Model  |                      |                  |         |             | LGH-6           | 5RX₅-E        |           |            |           |
|--|----------------------|------------------|---------|-------------|-----------------|---------------|-----------|------------|-----------|
| Frequency / Power source                                     |                      |                  |         |             | 50Hz / Single p | hase 220-240V |           |            |           |
| Ventilation mode   |                      |                  | LOSSNAY | ventilation |                 |               | By-pass v | entilation |           |
| Fan speed  |                      | Extra High       | High    | Low         | Extra Low       | Extra High    | High      | Low        | Extra Low |
| Current (A)  |                      | 1.7-1.8          | 1.5-1.5 | 1.2-1.2     | 0.6-0.6         | 1.7-1.8       | 1.5-1.5   | 1.2-1.2    | 0.6-0.6   |
| Power consumption (W)  |                      | 350-380          | 308-322 | 248-265     | 120-140         | 350-385       | 310-335   | 250-265    | 120-140   |
| Air volume   | (m³/h)               | 650              | 650     | 520         | 265             | 650           | 650       | 520        | 265       |
| Air volume   | (L/s)                | 181              | 181     | 144         | 74              | 181           | 181       | 144        | 74        |
| External static pressure                                     | (mmH <sub>2</sub> O) | 11.2-12.2        | 6.1-8.2 | 4.1-5.1     | 0.8             | 11.2-12.2     | 6.1-8.2   | 4.1-5.1    | 0.8       |
| External static pressure                                     | (Pa)                 | 110-120          | 60-80   | 40-50       | 8               | 110-120       | 60-80     | 40-50      | 8         |
| Temperature exchange efficiency (                            | %)                   | 77.0             | 77.0    | 80.0        | 86.0            | —             | _         | _          | _         |
| Enthalpy exchange efficiency (%)                             | Heating              | 68.5             | 68.5    | 70.5        | 78.0            | —             | —         | _          | _         |
| Enthalpy exchange enciency (%)                               | Cooling              | 66.0             | 66.0    | 68.5        | 77.0            | _             | _         | _          | _         |
| Noise (dB) (Measured at 1.5m unde<br>of panel in an anechoei |                      | 34-34.5          | 32-33   | 28.5-31.5   | 22              | 34.5-35       | 32.5-33.5 | 28.5-30.5  | 22-22.5   |
| Weight (kg)  |                      |                  |         |             | 2               | 40            |           |            |           |
| Starting current   |                      | Under 4.4 A Less |         |             |                 |               |           |            |           |

\*The Air outlets noise (45° angle, 1.5 meters in front of the unit) is about 10 dB greater than the indicated value. (at High Fan speed)

#### LGH-80RX5-E

| Model   |                      |                              |           |             | LGH-8     | 0RX₅-E     |            |            |           |  |  |  |
|---|----------------------|------------------------------|-----------|-------------|-----------|------------|------------|------------|-----------|--|--|--|
| Frequency / Power source  |                      | 50Hz / Single phase 220-240V |           |             |           |            |            |            |           |  |  |  |
| Ventilation mode  |                      |                              | LOSSNAY   | ventilation |           |            | By-pass ve | entilation |           |  |  |  |
| Fan speed   |                      | Extra High                   | High      | Low         | Extra Low | Extra High | High       | Low        | Extra Low |  |  |  |
| Current (A)   |                      | 1.75-1.75                    | 1.6-1.6   | 1.45-1.45   | 0.60-0.65 | 1.75-1.75  | 1.6-1.6    | 1.45-1.45  | 0.60-0.65 |  |  |  |
| Power consumption (W)   |                      | 380-415                      | 345-370   | 315-340     | 125-145   | 380-415    | 345-370    | 315-340    | 120-145   |  |  |  |
| Airvolumo   | (m³/h)               | 800                          | 800       | 700         | 355       | 800        | 800        | 700        | 355       |  |  |  |
| Air volume  | (L/s)                | 222                          | 222       | 194         | 99        | 222        | 222        | 194        | 99        |  |  |  |
| External static pressure  | (mmH <sub>2</sub> O) | 14.8-15.3                    | 10.7-12.2 | 8.2-9.7     | 2         | 14.8-15.3  | 10.7-12.2  | 8.2-9.7    | 2         |  |  |  |
|   | (Pa)                 | 145-150                      | 105-120   | 80-95       | 20        | 145-150    | 105-120    | 80-95      | 20        |  |  |  |
| Temperature exchange efficiency (   | %)                   | 79.0                         | 79.0      | 80.5        | 87.5      | —          | —          | —          | —         |  |  |  |
| Enthalpy exchange efficiency (%)  | Heating              | 71.0                         | 71.0      | 72.5        | 79.5      | —          | —          | —          | —         |  |  |  |
| Enthalpy exchange entciency (%)   | Cooling              | 70.0                         | 70.0      | 71.5        | 79.5      | —          | —          | —          | —         |  |  |  |
| Noise (dB) (Measured at 1.5m under the center of panel in an anechoeic chamber) |                      | 33.5-34.5                    | 32-33     | 30-31       | 22        | 34.5-35.5  | 33-34      | 31-32      | 22        |  |  |  |
| Weight (kg)   |                      | 53                           |           |             |           |            |            |            |           |  |  |  |
| Starting current  |                      |                              |           |             | Under 3.  | .8 A Less  |            |            |           |  |  |  |

\*The Air outlets noise (45° angle, 1.5 meters in front of the unit) is about 16 dB greater than the indicated value. (at High Fan speed)



LGH-15~100RX5-E

#### LGH-100RX5-E

| Model  |                      |                              |           |             | LGH-1     | 00RX₅-E             |           |         |           |  |  |
|--|----------------------|------------------------------|-----------|-------------|-----------|---------------------|-----------|---------|-----------|--|--|
| Frequency / Power source   |                      | 50Hz / Single phase 220-240V |           |             |           |                     |           |         |           |  |  |
| Ventilation mode   |                      |                              | LOSSNAY   | ventilation |           | By-pass ventilation |           |         |           |  |  |
| Fan speed  |                      | Extra High                   | High      | Low         | Extra Low | Extra High          | High      | Low     | Extra Low |  |  |
| Current (A)  |                      | 2.3-2.4                      | 2.1-2.1   | 1.7-1.7     | 0.9-0.9   | 2.3-2.4             | 2.1-2.1   | 1.7-1.7 | 0.9-0.9   |  |  |
| Power consumption (W)  |                      | 500-535                      | 445-475   | 350-380     | 175-200   | 510-550             | 460-485   | 365-395 | 175-200   |  |  |
| Air volume   | (m³/h)               | 1000                         | 1000      | 755         | 415       | 1000                | 1000      | 755     | 415       |  |  |
|  | (L/s)                | 278                          | 278       | 210         | 115       | 278                 | 278       | 210     | 115       |  |  |
| Future I static success  | (mmH <sub>2</sub> O) | 16.3-17.3                    | 10.2-11.2 | 5.6-6.1     | 1.8       | 16.3-17.3           | 10.2-11.2 | 5.6-6.1 | 1.8       |  |  |
| External static pressure   | (Pa)                 | 160-170                      | 100-110   | 55-60       | 18        | 160-170             | 100-110   | 55-60   | 18        |  |  |
| Temperature exchange efficiency (%   | %)                   | 80.0                         | 80.0      | 83.0        | 87.0      | —                   | _         | —       | —         |  |  |
| Enthalpy exchange efficiency (%)   | Heating              | 72.5                         | 72.5      | 74.0        | 80.0      | _                   | _         | —       | —         |  |  |
| Enthalpy exchange entclency (%)  | Cooling              | 71.0                         | 71.0      | 73.0        | 79.0      | _                   | _         | —       | _         |  |  |
| Noise (dB) (Measured at 1.5m under the center<br>of panel in an anechoeic chamber) |                      | 36-37                        | 34-35     | 31-32.5     | 21-22     | 37-38               | 35-36     | 32-33   | 21-22     |  |  |
| Weight (kg)  |                      | 59                           |           |             |           |                     |           |         |           |  |  |
| Starting current   |                      |                              |           |             | Under 4   | .6 A Less           |           |         |           |  |  |

\*The Air outlets noise (45° angle, 1.5 meters in front of the unit) is about 17 dB greater than the indicated value. (at High Fan speed)

| LGH-150RX₅-E   |                      |                              |                     |          |            |                     |          |  |  |  |  |
|--|----------------------|------------------------------|---------------------|----------|------------|---------------------|----------|--|--|--|--|
| Model  |                      | LGH-150RX₅-E                 |                     |          |            |                     |          |  |  |  |  |
| Frequency / Power source                                       |                      | 50Hz / Single phase 220-240V |                     |          |            |                     |          |  |  |  |  |
| Ventilation mode   |                      |                              | LOSSNAY ventilation |          |            | By-pass ventilation |          |  |  |  |  |
| Fan speed  |                      | Extra High                   | High                | Low      | Extra High | High                | Low      |  |  |  |  |
| Current (A)  |                      | 3.5-3.5                      | 3.2-3.2             | 2.9-2.9  | 3.5-3.5    | 3.2-3.2             | 2.9-2.9  |  |  |  |  |
| Power consumption (W)  |                      | 760-830                      | 690-740             | 630-680  | 765-835    | 695-745             | 635-685  |  |  |  |  |
| Air volume   | (m³/h)               | 1500                         | 1500                | 1300     | 1500       | 1500                | 1300     |  |  |  |  |
|  | (L/s)                | 417                          | 417                 | 361      | 417        | 417                 | 361      |  |  |  |  |
| External static pressure                                       | (mmH <sub>2</sub> O) | 16.3-17.8                    | 13.3-13.8           | 9.7-10.2 | 16.3-17.8  | 13.3-13.8           | 9.7-10.2 |  |  |  |  |
| External static pressure                                       | (Pa)                 | 160-175                      | 130-135             | 95-100   | 160-175    | 130-135             | 95-100   |  |  |  |  |
| Temperature exchange efficiency (                              | %)                   | 80.0                         | 80.0                | 81.0     | _          | —                   | _        |  |  |  |  |
| Enthalpy exchange efficiency (%)                               | Heating              | 72.0                         | 72.0                | 72.5     | _          | —                   | —        |  |  |  |  |
| Entraipy exchange enciency (76)                                | Cooling              | 70.5                         | 70.5                | 71.5     | -          | —                   | -        |  |  |  |  |
| Noise (dB) (Measured at 1.5m under<br>of panel in an anechoeid |                      | 38-39                        | 36-37.5             | 33.5-35  | 39-40.5    | 37.5-39             | 35.5-37  |  |  |  |  |
| Weight (kg)  |                      | 105                          |                     |          |            |                     |          |  |  |  |  |
| Starting current   |                      |                              |                     | Under 7  | 7.3 A Less |                     |          |  |  |  |  |

\*The Air outlets noise (45° angle, 1.5 meters in front of the unit) is about 19 dB greater than the indicated value. (at High Fan speed)

#### LGH-200RX5-E

| Model   |                      |   | LGH-200RX5-E |                              |            |           |         |  |  |  |  |
|---|----------------------|---|--------------|------------------------------|------------|-----------|---------|--|--|--|--|
| Frequency / Power source                                      |                      |   |              | 50Hz / Single phase 220-240V |            |           |         |  |  |  |  |
| Ventilation mode  |                      | LOSSNAY ventilation By-pass ventilation |              |                              |            |           |         |  |  |  |  |
| Fan speed   |                      | Extra High                              | High         | Low                          | Extra High | High      | Low     |  |  |  |  |
| Current (A)   |                      | 4.8-4.8                                 | 4.2-4.2      | 3.4-3.4                      | 4.8-4.8    | 4.2-4.2   | 3.4-3.4 |  |  |  |  |
| Power consumption (W)   |                      | 1035-1100                               | 910-980      | 715-785                      | 1040-1110  | 915-980   | 720-785 |  |  |  |  |
| ir volume   | (m³/h)               | 2000                                    | 2000         | 1580                         | 2000       | 2000      | 1580    |  |  |  |  |
| Air volume  | (L/s)                | 556                                     | 556          | 439                          | 556        | 556       | 439     |  |  |  |  |
| Air volume  | (mmH <sub>2</sub> O) | 16.3-16.8                               | 10.2-10.7    | 6.1-6.6                      | 16.3-16.8  | 10.2-10.7 | 6.1-6.6 |  |  |  |  |
|   | (Pa)                 | 160-165                                 | 100-105      | 60-65                        | 160-165    | 100-105   | 60-65   |  |  |  |  |
| Temperature exchange efficiency                               | (%)                  | 80.0                                    | 80.0         | 83.0                         | -          | —         | _       |  |  |  |  |
| Enthalpy exchange efficiency (%)                              | Heating              | 72.5                                    | 72.5         | 73.5                         | -          | -         |         |  |  |  |  |
| Entraipy exchange enciency (%)                                | Cooling              | 71.0                                    | 71.0         | 72.0                         | -          | —         | -       |  |  |  |  |
| Noise (dB) (Measured at 1.5m under<br>of panel in an anechoei |                      | 39.5-40                                 | 37-38        | 32.5-34                      | 40.5-41    | 38-39     | 33.5-35 |  |  |  |  |
| Weight (kg)   |                      | 118                                     |              |                              |            |           |         |  |  |  |  |
| Starting current Under 11.9A Less                             |                      |   |              |                              |            |           |         |  |  |  |  |

\*The Air outlets noise (45° angle, 1.5 meters in front of the unit) is about 20 dB greater than the indicated value. (at High Fan speed)

Indoor unit

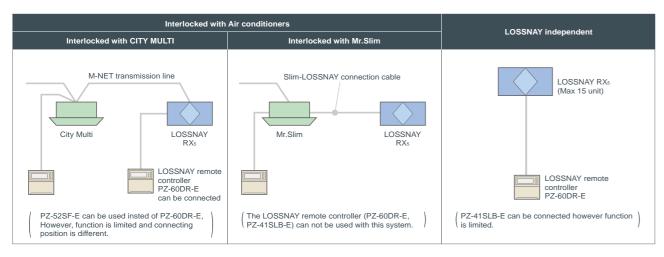




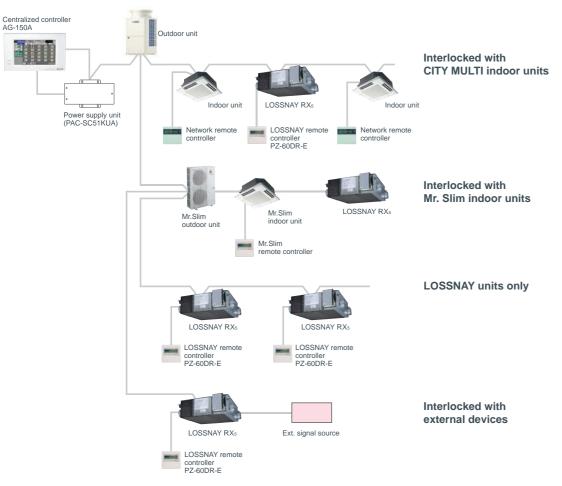
#### LGH-150/200RX5-E

### Control

#### The New Remote Controller PZ-60DR-E enable simple control setting



#### Centralized Controller System



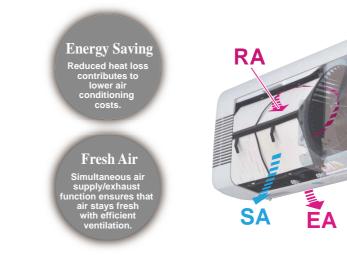
Indoor unit



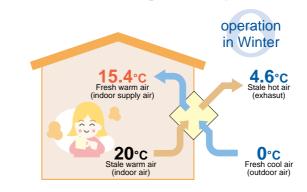
## **VL-100U-E**

### Heat Recovery Ventilators for Residential Use

Time Spent in Comfort with a Breath of Fresh Air



### **Total-Heat-Exchange Concept**



•Heat-exchange calculating equation Calculation example :  $15.4^{\circ}C = 0^{\circ}C + (20^{\circ}C - 0^{\circ}C) \times 77\%$  (Low notch)

#### **Specification**

•Simple installation through boring of 2 installation holes. •Low-noise(Less than 30dB at low notch). •1-motor 2-fan system. •Air-volume:low/high 2-notch.

•Air-supply/exhaust pipes and plastic weather cover are supplied as accessories.

•Equipped with an outdoor-air shutter. •Pull-string switch

#### **Optional parts**

**Extension Pipe** P-100P (unit: mm)

•Total length when connected to the pipe extension coupling is 300mm.



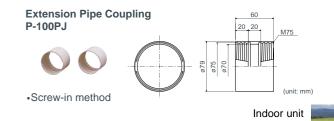




#### •Heat-exchange calculating equation

 $\begin{array}{l} \mbox{Indoor supply-air} \\ \mbox{temperature (°C)} \end{array} = \begin{array}{l} \mbox{Outdoor} \\ \mbox{temperature (°C)} \end{array} - \left\{ \begin{array}{l} \mbox{Outdoor} \\ \mbox{temperature (°C)} \end{array} \right. \\ \mbox{temperature (°C)} \end{array} x \begin{array}{l} \mbox{temperature (°C)} \\ \mbox{temperature (°C)} \end{array} \right\} x \begin{array}{l} \mbox{temperature (°C)} \\ \mbox{temperature (°C)} \end{array} \right\} x \begin{array}{l} \mbox{temperature (°C)} \\ \mbox{temperature (°C)} \end{array} \right\} x \begin{array}{l} \mbox{temperature (°C)} \\ \mbox{temperature (°C)} \end{array} \right\} x \begin{array}{l} \mbox{temperature (°C)} \\ \mbox{temperature (°C)} \end{array} \right\} x \begin{array}{l} \mbox{temperature (°C)} \\ \mbox{temperature (°C)} \end{array} \right\} x \begin{array}{l} \mbox{temperature (°C)} \\ \mbox{temperature (°C)} \end{array} \right\} x \begin{array}{l} \mbox{temperature (°C)} \\ \mbox{temperature (°C)} \end{array} \right\} x \begin{array}{l} \mbox{temperature (°C)} \\ \mbox{temperature (°C)} \end{array} \right\} x \begin{array}{l} \mbox{temperature (°C)} \\ \mbox{temperature (°C)} \end{array} \right\} x \begin{array}{l} \mbox{temperature (°C)} \\ \mbox{temperature (°C)} \end{array} \right\} x \begin{array}{l} \mbox{temperature (°C)} \\ \mbox{temperature (°C)} \end{array} \right\} x \begin{array}{l} \mbox{temperature (°C)} \\ \mbox{temperature (°C)} \end{array} \right\} x \begin{array}{l} \mbox{temperature (°C)} \\ \mbox{temperature (°C)} \end{array} \bigg\} x \begin{array}{l} \mbox{temperature (°C)} \\ \mbox{temperature (°C)} \end{array} \bigg\} x \begin{array}{l} \mbox{temperature (°C)} \\ \mbox{temperature (°C)} \end{array} \bigg\} x \begin{array}{l} \mbox{temperature (°C)} \\ \mbox{temperature (°C)} \end{array} \bigg\} x \begin{array}{l} \mbox{temperature (°C)} \\ \mbox{temperature (°C)} \end{array} \bigg\} x \begin{array}{l} \mbox{temperature (°C)} \\ \mbox{temperature (°C)} \end{array} \bigg\} x \begin{array}{l} \mbox{temperature (°C)} \\ \mbox{temperature (°C)} \end{array} \bigg\} x \begin{array}{l} \mbox{temperature (°C)} \\ \mbox{temperature (°C)} \end{array} \bigg\} x \begin{array}{l} \mbox{temperature (°C)} \\ \mbox{temperature (°C)} \end{array} \bigg\} x \begin{array}{l} \mbox{temperature (°C)} \\ \mbox{temperature (°C)} \end{array} \bigg\} x \begin{array}{l} \mbox{temperature (°C)} \\ \mbox{temperature (°C)} \end{array} \bigg\} x \begin{array}{l} \mbox{temperature (°C)} \\ \mbox{temperature (°C)} \end{array} \bigg\} x \begin{array}{l} \mbox{temperature (°C)} \end{array} \\ \mbox{temperature (°C)} \end{array} x \begin{array}{l} \mbox{temperature (°C)} \end{array} \\ \mbox{temperature (°C)} \mbox{temperature (°C)} \end{array} \\ \mbox{temperature (°C)} \mbox{temperature (°C)} \end{array} \\ \mbox{temperature (°C)} \mbox{temperature (°C)} \mbox{temperature (°C)} \mbox{temperature (°C)} \mbox$ Calculation example : 24.2°C = 35°C - (35°C - 21°C) x 77% (Low notch)

|         | Power line<br>frequency<br>(Hz) |    | Air volume<br>(m³/h) | Power<br>Consumption<br>(W) | Temp.exchange<br>efficiency<br>(%) | Noise<br>(dB) | Weight<br>(kg) |
|---------|---------------------------------|----|----------------------|-----------------------------|------------------------------------|---------------|----------------|
| 220-240 | 50                              | HI | 105                  | 26                          | 70                                 | 39            |                |
| 220-240 | 50                              | LO | 65                   | 23                          | 77                                 | 29.5          | 0.5            |
| 000     | 00                              | н  | 90                   | 26                          | 73                                 | 37            | 6.5            |
| 220 60  |                                 | LO | 50                   | 21                          | 80                                 | 26            |                |

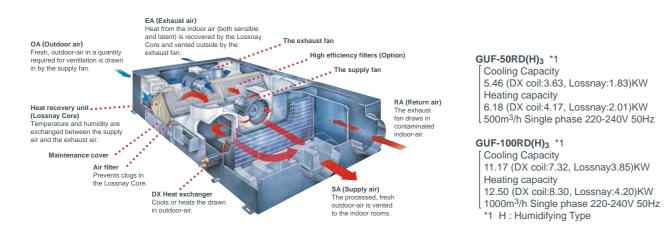


## **OA Processing** Units



### Ideal Indoor-Air Quality — For Your Comfort and Health

The OA (outdoor-air) Processing Unit creates an optimum indoor-air environment at an unparalleled rate of cost efficiency providing substantial energy savings. Forced air ventilating and humidifying functions unique to this system keep indoor-air fresh and free of contaminants preventing "sick building syndrome" and the spread of airborne viruses such as the flu. Another novel feature of the OA Processing Unit is the "Lossnay core," a heat-exchange unit that functions to transfer heat efficiently, cutting ventilation load by as much as 70%. This special combination of functionality and performance designed to ensure users ample comfort and year-round health which cannot be found anywhere else on the market.



## New Permeable Film Humidifier (RDH<sub>3</sub> model)

#### **Comfortable Level of Humidity for Exceptionable** Air Quality

The OA Processing Unit is equipped with a new permeable film humidifier developed and patented by Mitsubishi Electric. Steam transmission efficiency has been improved remarkably by lowering the resistance of the material. The use of a 3-layer film that allows only the transfer of steam prevents the production of white powder, so there is no need for the use of a water purifier.

## **Highly Efficient Humidification**

Improvements in the system of airflow patterns and water injection techniques have resulted in a substantial increase in humidifying volume.



## **RDH3 SERIES OUTDOOR AIR PROCESSING UNIT GUF type**

#### General

GUF - For the finest indoor quality GUF = [ LOSSNAY ] + [ HEATING & COOLING ]

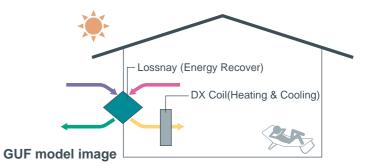
### **Specification**

| Model  |                   |          |  | GUF-50  | )RDH₃ *³                   | GUF-10        | 0RDH₃ *3             | GUF-                                   | 50RD₃                    | GUF-1       | 100RD₃     |  |  |
|--|-------------------|----------|--|---|----------------------------|---------------|----------------------|--|--------------------------|-------------|------------|--|--|
| Power source   |                   |          |  |   |                            | 1-phase 2     | 220-240V 50H         | lz. 1-phase 2                          | 220V 60Hz                |             |            |  |  |
| Cooling capacity   |                   | *1       | kW   | 5.46  | <1.83>                     | 11.17         | <3.85>               | 5.46                                   | <1.83>                   | 11.17       | <3.85>     |  |  |
| Figure in < > is the   | he recovery       | *1       | kcal / h   | 4,700   | <1,600>                    | 9,600         | <3,300>              | 4,700                                  | <1,600>                  | 9,600       | <3,300>    |  |  |
| capacity by LOSS   |                   | *1       | BTU / h  | 18,600  | <6,200>                    | 38,100        | <13,100>             | 18,600                                 | <6,200>                  | 38,100      | <13,100>   |  |  |
|  | Power input       |          | W  | 235   | -265                       | 480           | -505                 | 235                                    | -265                     | 480         | -505       |  |  |
|  | Current input     |          | A  | 1.  | .15                        | 2             | .20                  | 1.                                     | 15                       | 2.          | .20        |  |  |
| Heating capacity   |                   | *2       | kW   | 6.18  | <2.01>                     | 12.50         | <4.20>               | 6.18                                   | <2.01>                   | 12.50       | <4.20>     |  |  |
| Figure in < > is the second se | he recovery       | *2       | kcal / h   | 5,300   | <1,700>                    | 10,800        | <3,600>              | 5,300                                  | <1,700>                  | 10,800      | <3,600>    |  |  |
| capacity by LOSS   | SNAY core.        | *2       | BTU / h  | 21,100  | <6,900>                    | 42,700        | <14,300>             | 21,100                                 | <6,900>                  | 42,700      | <14,300>   |  |  |
|  | Power input       |          | W  | 235   | -265                       | 480           | -505                 | 235                                    | -265                     | 480         | -505       |  |  |
|  | Current input     |          | A  | 1.  | .15                        | 2             | .20                  | 1.                                     | 15                       | 2.          | .20        |  |  |
| Capacity equivale  | ent to indoor uni | t        |  | P   | 32                         | P             | 63                   | P                                      | 32                       | P           | 63         |  |  |
| Humidifying capa   | city              |          | kg / h   | 2   | 2.7                        | 5             | 5.4                  |  | -                        |             | -          |  |  |
|  |                   |          | lbs / h  | 6   | 6.0                        | 1             | 2.0                  |  | -                        |             | -          |  |  |
|  | Humidifier        |          |  |   | Permeable fi               | Im humidifie  | r                    |  |                          | -           |            |  |  |
| External finish  |                   |          |  |   |                            | Galva         | nized, with gr       | ey insulatior                          | n sheet                  |             |            |  |  |
| External dimension   | on H x W x D      |          | mm   | 317 x 1,0   | 16 x 1,288                 | 398 x 1,2     | 31 x 1,580           | 317 x 1,0                              | 16 x 1,288               | 398 x 1,2   | 31 x 1,580 |  |  |
|  |                   | in.      | 12-1/2 x 40 x 50-3/4   |   | 15-11/16 x 48-1/2 x 62-1/4 |               | 12-1/2 x 40 x 50-3/4 |  | 15-11/16 x 48-1/2 x 62-1 |             |            |  |  |
| Net weight   |                   | kg (lbs) | 57 (   | (126)   | 98                         | (217)         | 54 (                 | 120)                                   | 92 (                     | (203)       |            |  |  |
| Heat   | LOSSNAY core      | е        |  | Partition, Cross-flow structure, Special preserved paper-plate. |                            |               |                      |  |                          |             |            |  |  |
| exchanger  | Refrigerant coi   | il       |  |   |                            | Cross f       | in (Aluminum         | fin and copp                           | per tube)                |             |            |  |  |
| FAN  | Type x Quantit    | y        |  |   |                            | SA: (         | Centrifugal fai      | n (Sirocco fa                          | n) x 1                   |             |            |  |  |
|  |                   |          |  | EA: Centrifugal fan (Sirocco fan) x 1                           |                            |               |                      |  |                          |             |            |  |  |
|  | External          |          | Pa   | 1   | 25                         | 1             | 35                   | 1                                      | 40                       | 1           | 40         |  |  |
|  | static press.     |          | mmH₂O  | 12  | 2.7                        | 1             | 3.8                  | 14                                     | 4.3                      | 14          | 4.3        |  |  |
|  | Motor type        |          |  | To  | tally enclose              | d capacitor p | permanent sp         | lit-phase ind                          | uction motor,            | 4 poles, 2u | nits       |  |  |
|  | Motor output      |          | kW   |   | -                          |               | -                    |  | -                        |             | -          |  |  |
|  | Driving mecha     | nism     |  |   |                            |               | Direct-drive         | n by motor                             |                          |             |            |  |  |
|  | Airflow rate      |          | m³ / h   | 5   | 00                         | 1,            | 000                  | 5                                      | 00                       | 1,0         | 000        |  |  |
|  | (High value)      |          | L/s  | 1   | 39                         | 1             | 39                   | 1                                      | 39                       | 1           | 39         |  |  |
|  |                   |          | cfm  | 2   | 94                         | 5             | 89                   | 2                                      | 94                       | 5           | 89         |  |  |
| Sound pressure I   | evel (Low-High)   |          | dB <a></a>   | 33.5  | -34.5                      | 39            | 3-39                 | 33.5                                   | -34.5                    | 38          | -39        |  |  |
| (measured in an  | echoic room)      |          |  | 00.0  |                            |               | , 00                 | 00.0                                   | 04.0                     |             | 00         |  |  |
| Insulation materia   | al                |          |  |   |                            |               | Polyeste             | er sheet                               |                          |             |            |  |  |
| Air filter   | Supplying air     |          | Non-woven fabrics filter (Gravitational method 82%) & Optional part: High efficiency filter (Colorimetric method |   |                            |               |                      |  |                          | method 65%) |            |  |  |
| Exhausting air Non-woven fabrics filter (Gravitational method 82%)   |                   |          |  |   |                            |               |                      |  |                          |             |            |  |  |
| Protection device  |                   |          |  |   | Fu                         |               |                      |  |                          |             |            |  |  |
| Refrigerant control device   |                   |          |  | LEV   |                            |               |                      |  |                          |             |            |  |  |
| Diameter of  | Liquid            |          | mm (in.)   |   | 1/4) Flare                 |               | 3/8) Flare           | `````````````````````````````````````` | 1/4) Flare               |             | 3/8) Flare |  |  |
| refrigerant pipe   | Gas               |          | mm (in.)   | ø12.7 (ø  | 1/2) Flare                 | ø15.88 (ø     | ø5/8) Flare          |  | 1/2) Flare               | ø15.88 (ø   | 5/8) Flare |  |  |
| Diameter of drain  | pipe              |          | mm (in.)   |   |                            |               | VP                   | 25                                     |                          |             |            |  |  |

#### Notes:

- \*1 Cooling : Indoor 27°CDB/19°CWB, Outdoor 35°CDB/24°CWB
- \*2 Heating : Indoor 20°CDB/13.8°CWB, Outdoor 7°CDB/16°CWB
- \*3 Available for limited countries. Please contact your local distributor for further information

Indoor unit





## Remote Controller

- Individual Remote Controller
- **Centralized Remote Controller**

## The importance of control

The need for control is paramount in order to optimise the performance of any air conditioning system and minimize its running costs. Mitsubishi Electric offers a wide range of control options designed to meet such needs.

Operating an air conditioning system without the right control can prove costly. It's therefore important to ensure that every system is correctly specified to the degree of control it requires. Mitsubishi Electric have a wide range of controls available 'off-the-shelf' and individual control systems can be specifically designed to match.

Good controls will benefit any application, large or small. Air conditioning products need to react to a variety of factors: different room sizes, usage and staff levels; changes in the climate; electronic equipment and lighting ... the list goes on. So whatever the application, optimum control of air conditioning systems is essential and will result in a constant, comfortable environment, which in turn is both energy and cost efficient.

### A degree of difference

When an air conditioning system is not properly controlled, it will not run as efficiently as it should. For every degree that the system deviates from the required temperature, energy costs can rise by up to 5%. Specify one of the many control options from Mitsubishi Electric to ensure air conditioning works as intended, whilst giving the optimum amount of control.

### The simpler, the better

With the array of comprehensive control systems available from Mitsubishi Electric, it becomes simple to design and install air conditioning systems. From a simple hand-held controller to a AG-150A system you are in control.

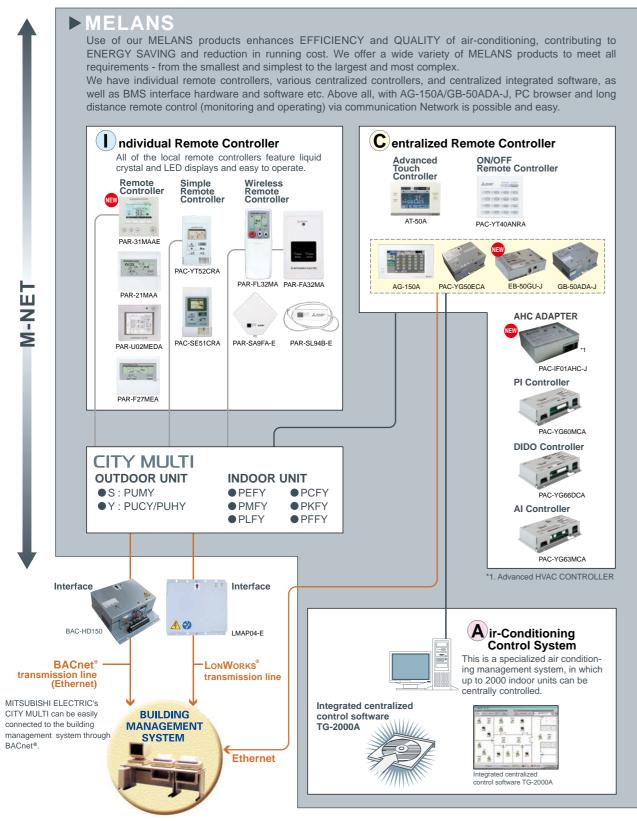


Remote Controller



## **System Controller**

MITSUBISHI ELECTRIC's Air-conditioner Network System (MELANS) leads air conditioner management a PC browser and Network era.



\*Some controllers cannot be used in combination with certain models of devices

Remote Controller

## **Integrated Communications Control with** Mitsubishi Electric's Unique Transmission Network (M-NET)

|   |                    |                      |                        |          |            |                    |             |                |              |                     |  |                     |                      |          |                      |                    |                                       | /                    |
|---|--------------------|----------------------|------------------------|----------|------------|--------------------|-------------|----------------|--------------|---------------------|--|---------------------|----------------------|----------|----------------------|--------------------|---------------------------------------|----------------------|
| Model   | PAR-               | Lo<br>PAR-           | pcal re                | mote o   | PAC-       | ler<br>PAC-        | *10<br>PAR- | PAC-           | 1            |                     |  |                     | m cor<br>50A +       |          |                      |                    |                                       | *10                  |
| Controllable Groups / Indoors   | 31MAAE             | 21MAA                | U02MEDA                | F27MEA   | YT52CRA    | SE51CRA            |             | YT40ANRA       | AT-50A       |                     | 150A<br>/ 50   | PAC-Y               | G50ECA               |          | iogu-j<br>/ 50       |                    | 0ADA-J                                | TG-2000Å             |
| (Group / Indoor) •9   | 1 / 16             | 1 / 16               | 1 / 16                 | 1 / 16   | 1 / 16     | 1 / 16             | 1 / 16      | 16 / 50        | 50 / 50      |                     | -  |                     |                      |          | J Browser*4          |                    |                                       | 2000 / 2000          |
| Operating<br>ON / OFF   |                    |                      |                        |          |            |                    |             |                |              |                     |  |                     |                      |          |                      |                    |                                       |                      |
| Mode (cool / heat / dry / fan)  | 0                  | 0                    | Ō                      | 0        | Ō          | N                  | 0           | N              | 0            |                     |  |                     |                      | N        | 0                    | N                  |                                       |                      |
| Temperature-set   | 0                  | 0                    | 0                      | 0        | 0          | 0                  | 0           | N              | O            |                     |  |                     |                      | Ν        | $\odot$              | Ν                  |                                       |                      |
| Local Permit / Prohibit   | N                  | N                    | N                      | N        | N          | N                  | N           | N              | 0            |                     |  |                     |                      | N        |                      | N                  |                                       |                      |
| Fan speed<br>Air-flow direction   | 0                  | 0                    | 0                      | 0        | 0          | O<br>N             | 0           | N<br>N         | 0            |                     |  |                     |                      | N<br>N   |                      | N                  |                                       |                      |
| Status monitoring   |                    |                      |                        |          |            |                    |             | IN             |              |                     |  |                     |                      | IN       |                      | IN                 |                                       |                      |
| ON / OFF  | 0                  | 0                    | 0                      | 0        | 0          | 0                  | 0           | O              | O            | O                   | 0  | O                   | 0                    |          | 0                    |                    | 0                                     |                      |
| Mode (cool / heat / dry / fan)  | 0                  | 0                    | 0                      | 0        | 0          | 0                  | 0           | N              | 0            | 0                   | 0  | 0                   | 0                    | N        | 0                    | N                  | 0                                     | 0                    |
| Temperature-set<br>Local Permit / Prohibit  | 0                  | 0                    | 0                      | 0        | 0          | 0                  | 0           | N<br>O         | 0            | 0                   | 0  | 0                   | 0                    | N        | 0                    | N                  |                                       | 0                    |
| Fan speed   | 0                  |                      |                        |          |            | 0                  | 0           | N              |              | 0                   | $\left  \begin{array}{c} 0 \\ 0 \end{array} \right $ | 0                   | $\overline{0}$       | N        | 0                    | N                  |                                       | 0                    |
| Air-flow direction  | 0                  | 0                    | 0                      | 0        | Ō          | N                  | 0           | N              | 0            | 10                  | 0  | 0                   | 0                    | N        | Ō                    | N                  | Ō                                     | 0                    |
| Indoor temperature  | 0                  | 0                    | 0                      | 0        | 0          | N                  | Ν           | N              | 0            | 0                   | 0  | 0                   | 0                    | Ν        | 0                    | Ν                  | 0                                     | 0                    |
| Filter sign   | 0                  | 0                    | 0                      | 0        | N          | N                  | N           | N              | 0            | 0                   | 0  | 0                   | 0                    | N        | 0                    | N                  | 0                                     | 0                    |
| Error flashing  | 0                  | 0                    |                        | 0        | 0          | 0                  | 0           | 0              | 0            |                     |  | 0                   | 0                    |          | 0                    |                    | 0                                     |                      |
| Error code<br>Operation hour  | O<br>N             | O<br>N               | O<br>N                 | O<br>N   | O<br>N     | O<br>N             | N           | O<br>N         | O<br>N       | O<br>N              | O<br>N   | O<br>N              | O<br>N               | N<br>N   | O<br>N               | N<br>N             | O<br>N                                |                      |
| ■Scheduling   |                    | IN                   |                        |          |            |                    | IN          | IN             |              |                     |  | IN                  | IN                   | IN       |                      | IN                 |                                       |                      |
| One-day   |                    | 0                    |                        |          | N          | N                  | N           | N              |              |                     |  |                     |                      | N        |                      | N                  |                                       | •                    |
| Times of ON / OFF per day   | 1                  | 8                    | 1                      | 1/1      | N          | N                  | 1/1         | N              | 16           | 24                  | 24   | 24                  | 24                   | Ν        | 24                   | Ν                  | 24                                    | 24                   |
| Weekly  | 0                  | 0                    | 0                      | N        | N          | N                  | Ν           | N              | 0            | $\bigcirc(\bullet)$ | $\bigcirc(\bigcirc)$                                 | $\bigcirc(\bullet)$ | $\bigcirc(\bigcirc)$ | N        | $\bigcirc(\bigcirc)$ | N                  | $\bigcirc(\bigcirc)$                  | $\bigcirc(\bigcirc)$ |
| Times of ON / OFF per week  |                    | 8 x 7                | 8 x 7                  | N        | N          | N                  | N           | N              | 16 x 7       | 24 x 7              | 24 x 7   | 24 x 7              | 24 x 7               | N        | 24 x 7               | N                  | 24 x 7                                | 24 x 7               |
| Annual  | N                  | N                    | N                      | N        | N          | N                  | N           | N              | N            |                     |  |                     |                      | N        | •                    | N                  | •                                     |                      |
| Optimized start-up<br>Auto-off timer  | N<br>O             | N<br>O               | N<br>O                 | N<br>O   | N<br>N     | N<br>N             | N<br>N      | N<br>N         | N<br>N       | O<br>N              | O<br>N   | O<br>N              | O<br>N               | N<br>N   | O<br>N               | N<br>N             | O<br>N                                | O<br>N               |
| Min. timer setting unit (minute)  | 5                  | 1                    | 5                      | 10       | N          | N                  | 10          | N              | 5            | 1                   | 1  | 1                   | 1                    | N        | 1                    | N                  | 1                                     | 1                    |
| Recording   |                    |                      |                        | 1 10     |            |                    |             |                | -            |                     |  |                     |                      |          |                      |                    | 1                                     |                      |
| Error record  | 0                  | N                    | N                      | N        | N          | N                  | Ν           | N              | 0            | 0                   | 0  | 0                   | 0                    | N        | 0                    | N                  | 0                                     | 0                    |
| Daily / monthly report  | N                  | N                    | N                      | N        | N          | N                  | Ν           | N              | N            | N                   | N  | N                   | N                    | N        | N                    | N                  | N                                     | O                    |
| Electricity charge  | N                  | N                    | N                      | N        | N          | N                  | N           | N              | N            | N                   | N  | N                   | N                    | N        | N                    | N                  | N                                     | •                    |
| Energy management data<br>Other   | N                  | N                    | N                      | N        | N          | N                  | N           | N              | N            | N                   | N  | N                   | N                    | N        |                      | N                  | N                                     | N                    |
| Temp-set limitation by Local R / C  |                    |                      |                        |          |            | N                  | N           | N              | l N          | N                   | N  | N                   | N                    | N        | N                    | N                  | N                                     | N                    |
| Temp-set limitation by System controller *4   | 0 *6               | -                    |                        | 0        | 0 *6       | 0*7                | N           | N              | 0*6          | N                   | 0*2*6  | N                   | O*2*6                | N        | 0*2*6                | N                  | 0*2*6                                 | © *6                 |
| Operation-lock  | 0                  | 0                    | 0                      | Õ        | 0          | N                  | N           | N              | 0            | N                   | N  | N                   | N                    | N        | N                    | N                  | N                                     | N                    |
| Night setback   | 0                  | N                    | 0                      | N        | N          | N                  | Ν           | N              | 0            | 0                   | O*2  | 0                   | O*2                  | N        | O*2                  | N                  | O*2                                   | 0                    |
| Sliding temperature control   | N                  | N                    | N                      | N        | N          | N                  | Ν           | N              | N            | 0                   | 0*2  | 0                   | O*2                  | N        | O*2                  | N                  | O*2                                   | 0                    |
| Management (Group / Interleak)  |                    | . '                  |                        |          |            | N/O                |             |                |              |                     |  |                     | 0/0                  |          | $ _{0}$              |                    | $\left  - \frac{2}{\sqrt{2}} \right $ |                      |
| Ventilation interlock<br>Group setting  | N/O<br>0 *1        | 0 *1                 | N/O                    | 0        | N/O        | 0                  | N<br>N      | 0              | 0            | 0                   | 0/0  | 0                   | 0/0                  | N<br>N   | 0/0                  | N                  | 0/0                                   | 0/0                  |
| Block setting   | N                  | N                    | N                      | N        | N          | N                  | N           | N              | N            | $\overline{\circ}$  | 0*2  | 0                   | 0*2                  | N        | O*2                  | N                  | 0*2                                   | 0                    |
| Revision of electricity charge  | N                  | N                    | N                      | N        | N          | N                  | N           | N              | N            | N                   | N  | N                   | N                    | N        | N                    | N                  | N                                     |                      |
| Operating on LOSSNAY  | interloc           | ked (G               | Froup /                | Interloo |            | . *0               |             |                |              |                     |  |                     |                      |          |                      |                    |                                       |                      |
| ON / OFF  | N/O                |                      | N/0                    | N/0      |            |                    |             | ©/©*3          |              |                     |  |                     |                      |          | 0/0                  |                    |                                       |                      |
| Fan speed   | N/O                |                      | N/O                    | N/O      | N          | N                  | N           | N              | 0/0          |                     |  |                     |                      |          |                      |                    |                                       | 0/0                  |
| Ventilation mode<br>Status monitoring on LOS  | N/N                |                      |                        |          | Interlo    | N (ked)            | Ν           | N              | ©/N          | 10/ N               | ©/ N   | @/ N                | ©/ N                 | IN / N   | I @ / N              | N/N                |                                       | 0/N                  |
|   | N/O                |                      |                        |          |            | N                  | N           | N              | 0/0          | 0/0                 | 6/0  | ര/ര                 | @/@                  |          | 0/0                  |                    | 10/0                                  | 0/0                  |
| Fan speed   | N/O                |                      | N/O                    |          | N          | N                  | N           | N              | 0/0          | 0/0                 | 0/0  | 0/0                 | 0/0                  | N/N      | 10/0                 | N/N                | 0/0                                   | 0/0                  |
| Ventilation mode  | N                  | N                    | N                      | N        | N          | N                  | Ν           | N              | O/N          | 0/ N                | 0/ N   | 0/ N                | 0/ N                 | N/N      | 1 O / N              | N / N              | 10/N                                  | 0/N                  |
| O: Each group / Batched ;   |                    |                      |                        |          |            |                    |             |                |              |                     |  |                     |                      |          |                      |                    |                                       | ble.                 |
| <ul> <li>(●) : License registration for</li> </ul>                                    |                    |                      |                        |          | : Not Ava  |                    | ot Used.    | ) <u>∆</u> : B | atched only  | /; ▲:               | Batche   | d handli            | ng (for m            | nainten  | ance)                | : Blo              | ock                                   |                      |
| <ol> <li>*1. Group setting via wirin</li> <li>*2. Installation possible at</li> </ol> |                    |                      |                        |          | ss-over    | cable;             |             |                |              |                     |  |                     |                      |          |                      |                    |                                       |                      |
| *3. Inter-lock is set at Loc  | al remot           | e contro             | oller.                 |          | -          | 4504/5             | D 500       |                |              |                     |  |                     |                      |          |                      |                    |                                       |                      |
| *4. AG-150A/EB-50GU-J/<br>*5. AG-150A connected w                                     | ith PAC            | -YG50E               | ECA is c               | ompatib  | le with T  | G-2000             | A Ver.6     | 6.1* or lat    | er. GB-50    | DADA-               | J is con   | npatibl             | e with               | TG-20    | 00A Ve               | 1115 Dy<br>1. 6.3* | or later                              | EB-50GU-J is         |
| compatible with TG-20   | 000A Ver           | r. 6.40A             | or later.              |          |            |                    |             |                |              |                     |  |                     |                      |          |                      |                    |                                       |                      |
| *6. This function can be so<br>(But, the validity of this fur                         | nction with        | h the MA             | /Simple N              | /A remot | e controll | er depen           | ds on th    | e indoor ur    | nit model, a | and ther            | e are po   | ssibilitie          | es that th           | nis fund | ction can            | be use             | d with th                             | em.)                 |
| *7. This function is availab<br>*8. Inter-lock is set from s                          | ve only<br>ystem c | wnen aj<br>ontrollei | ppiying t<br>r. (Excei | ogether  | YT40AN     | ∍-2000A<br>IRA)    | а, AG-1     | oua, GB-       | -SUADA-J     | , and I             | -в-50G   | U-J.                |                      |          |                      |                    |                                       |                      |
| *9. The maximum number<br>*10. For indoor use only.                                   | of cont            | rollable             | units de               | creases  | s depen    | ding on            | the ind     | oor unit r     | nodel.       |                     |  |                     | Ai                   | r cond   | ditioner             | contro             | ol svste                              | m interface          |
|   |                    | 5005                 |                        |          | Mana       | gement             |             |                |              |                     | _  |                     |                      |          | 4-E : Loi            |                    |                                       |                      |
| LOSSNAY remote controllable LOSSNA  |                    |                      |                        | 1 -      |            | setting<br>setting |             |                |              | N                   |  |                     |                      |          |                      |                    |                                       | 50 units,            |
| Controllable LOSSNA   |                    |                      |                        | 16       | Status     | s monito           | ring        |                |              |                     |  |                     |                      |          | tails, re            |                    |                                       |                      |
| Operating   |                    |                      |                        |          | ON/O       | FF                 |             |                |              | 0                   |  |                     | B                    | AC-H     | D150: B              | ACne               | t <sup>®</sup> Inter                  | ace                  |

| Controllable LOSSINAY Unit                                       | 01 | status monitoring                        |
|--|----|--|
| Operating  |    | ON/OFF                                   |
| ON/OFF   | 0  | Mode                                     |
| Mode   |    | (automatic ventilation/vent-heat intercl |
| (automatic ventilation/vent-heat interchange/normal ventilation) | 0  | Local Permit-Prohibit                    |
| Local Permit-Prohibit  | N  | Fan speed                                |
| Fan speed  | 0  | Air flow direction                       |
| Air flow direction   | N  | Filter sign                              |
| Scheduling   | N  | Error flashing                           |
| Recording  | N  | Error code                               |
|  |    |  |

|                            | 0 |
|----------------------------|---|
|                            | N |
|                            | 0 |
| change/normal ventilation) | 0 |
|                            | 0 |
|                            | 0 |
|                            | N |
|                            | 0 |
|                            | 0 |
|                            | 0 |
|                            |   |

Controls up to 50 Groups/ 50 units. up to 150 Groups/ 150 units with three expansion controllers for details, refer to its description.

O : Each group, N: Not Available

Remote Controller



Page 136

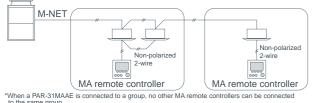
## Individual **Remote Controller**

#### NEW Wired MA remote controller PAR-31MAAE

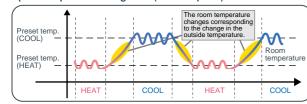


#### Dimensions: 120(W) x 120(H) x 19(D) mm : 4-3/4(W) x 4-3/4(H) x 3/4(D) in.

#### Example of system configuration



#### Operation pattern during Auto (dual set point) mode



• Temperature will be displayed either in Centigrade in 0.5or 1-degree increments, or in Fahrenheit, depending on the indoor unit model and the display mode setting on the remote controller.

#### Dual set point

When the operation mode is set to the Auto (dual set point) mode, two preset temperatures (one each for cooling and heating) can be set. Depending on the room temperature, indoor unit will automatically operate in either the Cool or Heat mode and keep the room temperature within the preset range.

\*Please contact your Mitsubishi Electric sales office for details.

#### • Backlit LCD (Liquid Crystal Display)

Large, easy-to-see display

Full-dot LCD display with large characters for easy viewing Contrast also adjustable

#### Night Setback

To prevent indoor dew or excessive temperature rise, this control starts heating operation when the control object group is stopped and the room temperature drops below the preset lower limit temperature. Also, this control starts cooling operation when the control object group is stopped and the room temperature rises above the preset upper limit temperature.

#### Language selection

Language to be displayed on the screen can be selected from eight languages: English, French, German, Spanish, Italian, Portuguese, Swedish, and Russian.

#### **Functions**

|                                  | O: Each group  | X:Not ava  | ilable  |
|----------------------------------|--|------------|---------|
| Item                             | Description  | Operations | Display |
| ON/OFF                           | Switches between ON and OFF.   | 0          | Ó       |
| Operation mode switching         | Switches among Cool/Dry/Fan/Auto/Heat.   | 0          | 0       |
| Room temp. setting               | The temperature can be set within the following range.<br>Cool/Dry : 19°C - 30°C / 67°F - 87°F<br>Heat : 17°C - 28°C / 63°F - 83°F<br>Auto : 19°C - 28°C / 67°F - 83°F<br>* Set temperature range varies depending on the model.   | 0          | 0       |
| Air flow direction setting       | Changes airflow direction.<br>* Available airflow directions vary depending on the model.  | 0          | 0       |
| Louver setting                   | Switches between louver ON/OFF.  | 0          | 0       |
| Ventilation equipment control    | Interlocked setting and interlocked operation setting with the CITY MULTI LOSSNAY units can be made.<br>The Stop/Low/High settings of the ventilation equipment can be controlled.   | 0          | 0       |
| Error information                | When an error occurs, an error code and the unit address appear.<br>Air conditioning unit model, serial number, and contact number can be set to appear when an error occurs.<br>(The information above needs to be entered in advance.)<br>* An error code may not appear depending on the error.   |            | 0       |
| Timer                            | ON/OFF timer<br>Turns ON and OFF daily at a set time.<br>• Time can be set in 5-minute increments.<br>• It is also possible to set the ON time only or the OFF time only.<br>Auto-OFF timer<br>Turns off the unit after a certain period of operation.<br>• Operation time can be set to a value from 30 to 240 minutes in 10-minute increments. | 0          | 0       |
| Allows/disallows local operation | The following operation can be prohibited by making certain settings on the centralized controller: ON/OFF, operation mode setting, temperature setting, fan speed, air direction, and filter sign reset.<br>* While an operation is prohibited, the operation icon lights up (only on the Main display in the "Full" mode).                     | x          | 0       |
| Operation lock                   | The following operation can be prohibited respectively: ON/OFF, operation mode setting, temperature setting, and airflow direction setting.  | 0          | 0       |
| Temperature range restriction    | The room temperature range for each operation mode can be restricted.  | 0          | 0       |
| Auto return                      | The units operate at the preset temperature after a designated period.<br>(Time can be set to a value from 30 to 120 in 10-minute increments.)<br>* Not valid when the temperature setting range is restricted.  | 0          | x       |

Remote Controller

# OCCL. 8

Dimensions: 130(W) x 120(H) x 19(D) mm : 5-1/8(W) x 4-23/32(H) x 3/4(D) in.

#### • New display-Larger, easier-to-see characters

- Dot Liquid Crystal Display (LCD)
- Multi-language Display

Gen

#### Multi-language Display Example [Dot display table]

| Langu                   | lage                     | English                   | German                 | Spanish                 | Russian                 | Italian                      | Chinese | French                   | Japanese  |
|-------------------------|--------------------------|---------------------------|------------------------|-------------------------|-------------------------|------------------------------|---------|--------------------------|---|
| Waiting for start-u     | p                        | PLEASE WRIT               | ←                      | ←                       | ←                       | ←                            | ←       | ←                        | ←   |
| Operation mode          | Cool                     | ©(00L                     | ©Kühlen                | ©FRí0                   | <b>Ф</b> Холоа          | ÖCOOL                        | ⊘制冷     | öfroid                   | ◎冷房   |
|                         | Dry                      | O DRY                     | OTrocknen              |                         | ОСушка                  | O DRY                        | ○除湿     | ⊂)DESHU                  | 0 / 51  |
|                         | Heat                     | ¤HEAT                     | ¤Heizen                | ¤(ALOR                  | ¤Тепло                  | ¤HEAT                        | ☆制热     | ÿ(HAUD                   | 淬暖角   |
|                         | Auto                     | ‡;‡AUTO                   | ‡‡AUTO                 | ∱-→AUTO-<br>←∳Mático    | ‡⊒Авто                  | ‡ <b>‡</b> AUTO              | は自动     | t;tauto                  | お自動   |
|                         | Auto(Cool)               | ‡‡COOL                    | ‡‡Kühlen               | ‡⊒FRÍO                  | ‡;;Холоа                | ‡‡COOL                       | は制冷     | ‡;‡FROID                 | \$2个房   |
|                         | Auto(Heat)               | t;theat                   | t≓tHeizen              | ‡‡(ALOR                 | ‡⊒Тепло                 | t;theat                      | は制想     | tt(HAUD                  | 11暖扉  |
|                         | Fan                      | #FAN                      | <b>S</b> Lüfter        | S LACIÓN                | <b>\$\$</b> Вент        |                              | \$\$送风  | S LATION                 | <b>\$</b> 送風  |
|                         | Ventilation              |                           | ₩6ebläse<br>Setrieb    | SELACIÓN                | ₩Венти-<br>Жляция       | <b>SESTERNA</b>              | 簗换气     |                          | 382换3   |
|                         | Stand by<br>(Hot adjust) | STAND BY                  | STAND BY               | CALENTANOO              | ОБОГРЕВ:<br>Паузя       | STAND BY                     | 准备中     | PRE<br>Chauffage         | 準備中 マンション ひょうしん ひょうしん しょうしん しょうしん しょうしん しょうしん ひょうしん ひょうしん しょうしん ひょうしん ひょうしん ひょうしん ひょうしん ひょうしん しょうしん ひょうしん ひょう ひょうしん ひょう |
|                         | Defrost                  | DEFROST                   | Altaven                | DESCONGE -<br>LACIÓN    | Оттаивание              | SBRINA<br>MENTO              | 除霜中     | DEGIVRAGE                | 霜取中   |
| Not use button          |                          | NOT<br>AVAILABLE          | Nicht<br>Verfusbar     | NO<br>Disponible        | НЕ<br>АОСТУПНО          | NON<br>DISPONIBILE           | 无效按钮    | NON<br>DISPONIBLE        | 無効が   |
| Check (Error)           |                          | CHECK                     | Prüfen                 | COMPROBAR               | Проверка                | CHECK                        | 检查      | CONTROLE                 | 点検  |
| Test run                |                          | TEST RUN                  | Testbetrieb            | test funcio<br>Namiento | Tectobliù<br>Satyek     | TEST RUN                     | 试运转     | TEST                     | 試ウリテン   |
| Self check              |                          | SELF CHECK                | Selbst -<br>diadhose   | AUTO<br>REVISIÓN        | Самодиаг-<br>Ностика    | SELF CHECK                   | 自我诊断    | AUTO<br>CONTROLE         | 自己リッグ   |
| Unit function selection |                          | FUNCTION                  | FUNKTION<br>SRUSWANI   | SELECCIÓN<br>DE FUNCIÓN | Выбор<br>Функции        | SELEZIONE<br>FUNZIONI        | 功能选择    | SELECTION<br>FONCTIONS   | キノウ選択   |
| Setting of ventilati    | on                       | SETTING OF<br>VENTILATION | Löfterstufen<br>Wahlen | CONFIG.<br>VENTILACIÓN  | Настройка<br>Вентустан. | IMPOSTAZIONE<br>ARIA ESTERNA | 换气设定    | SELECTION<br>VENTILATION | 换氮数   |

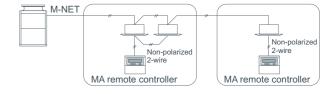
#### **Functions**

|  | : Each unit : Each group   | X : Not ava | ilable          |
|--|--|-------------|-----------------|
| Item   | Description  | Operations  | Display         |
| ON/OFF   | ON and OFF operation for a single group  | 0           | 0               |
| Operation mode switching   | Switches between Cool / Dry / Auto* / Fan / Heat. Operation modes vary depending on the air conditioner unit.<br>* Auto only supported for the CITY MULTI R2 and WR2 series.   | 0           | 0               |
| Temperature setting  | Sets the temperature for a single group<br>Range of temperature setting<br>Cool/Dry: 19°C - 30°C (14°C - 30°C) / 67°F - 87°F (57°F - 87°F)<br>Heat : 17°C - 28°C (17°C - 28°C) / 63°F - 83°F (63°F - 83°F)<br>Auto : 19°C - 28°C (17°C - 28°C) / 67°F - 83°F (63°F - 83°F)<br>() For PEFY/PFFY by setting DipSW 7-1 to ON and limits to NI6H fan speed only. | 0           | 0               |
| Fan speed setting  | Models with 4 air flow speed settings: Hi/Mid-2/Mid-1/Low<br>Models with 3 air flow speed settings: Hi/Mid/Low<br>Models with 2 air flow speed settings: Hi/Low<br>Fan speed setting (including Auto) varies depending on the model.   | 0           | 0               |
| Air flow direction setting   | Air flow direction angles (4-angle, or 5-angle Swing) Auto Louver ON/OFF<br>Air flow direction settings vary depending on the model.   | 0           | 0               |
| Permit / Prohibit local operation  | Individually prohibit operation of each local remote control function (ON/OFF, Change operation mode, Set temperature, Reset filter). *1: When the local remote controller inactivation command is received from the main system controller, " ] " is displayed.   | x           | O <sup>*1</sup> |
| Prohibition/permission of specified mode<br>(Cooling prohibited/heating prohibited<br>/cooling-heating prohibited) | By the setting from System Controller, the operation for the following modes is prohibited.<br>At cooling prohibited : Coo I, Dry, Auto,<br>At heating prohibited : Heat, Auto,<br>At cooling-heating prohibited : Cool, Heat, Dry, Auto   | x           | 0               |
| Error  | When an error is currently occurring on an air conditioner unit, the afflicted unit and the error code are displayed.  | Х           |                 |
| Ventilation equipment  | Up to 16 indoor units can be connected to an interlocked system that has one LOSSNAY. LOSSNAY items that can be set are "Hi" "Low" "Stop". Ventilation mode switching is not available.  | 0           | 0               |
| Set temperature range limit  | Set temperature range limit to cooling, heating, or auto mode.   | 0           | 0               |
| Auto lock function   | Setting/releasing of simplified locking for remote control switch can be performed.<br>• Locking of all switches • Locking of all switches except ON/OFF switch  | 0           | 0               |

## Wired MA remote controller PAR-21MAA

- Set temperature in 1°C/°F increment Weekly timer
- Up to 8 ON/OFF/temperature setting per day in 1 minute increment. Setting kept in nonvolatile memory. No need to worry about re-setting at power failure.
- Room temperature control with thermostat sensor inside the unit · Self-diagnosis function immediately informs error code in case of malfunction

#### Example of system configuration



## Individual **Remote Controller**

#### Smart ME Controller PAR-U02MEDA



Dimensions : 5-17/32(W) x 4-3/4(H) x 1(D) in. : 140(W) x 120(H) x 25(D) mm

- Smart ME Controller is a remote controller designed to control Mitsubishi Electric's air conditioning units and also allows for the control of other manufacturer's products connected via Mitsubishi Electric's AHC . (Advanced HVAC CONTROLLER).
- It can control up to sixteen indoor units and one AHC.
- Smart ME Controller features such basic functions as operations and monitoring of air conditioning units and schedule-control functions and is equipped with four built-in sensors (temperature, humidity, occupancy, brightness), which enable an integrated control of the system, including the humidifiers and ventilation units connected to the system via AHC, to help create a comfortable environment.
- When the built-in occupancy sensor detects vacancy in a specific zone, the controller uses its internal function to reduce energy-consumption.

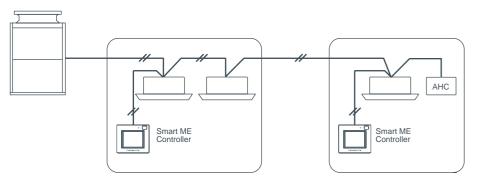
#### Wired ME remote controller PAR-F27MEA



unit.

Dimensions: 130(W) x 120(H) x 19(D) mm : 5-1/8(W) x 4-23/32(H) x 3/4(D) in.

#### Example of system configuration



#### **Functions**

 $\bigcirc$ :Each group  $\times$ :Not available

|                                       |   | •          |         |
|---------------------------------------|---|------------|---------|
| Item                                  | Description   | Operations | Display |
| ON/OFF                                | Switches between ON and OFF.  | 0          | 0       |
| Fan speed setting                     | Changes fan speed.<br>* Available fan speeds vary depending on the model.   | 0          | 0       |
| Air flow direction setting            | Changes airflow direction.<br>* Available airflow directions vary depending on the model.   | 0          | 0       |
| Allows/disallows local operation      | The following operation can be prohibited by making certain settings on the centralized controller: ON/OFF, operation mode setting, temperature setting, fan speed, air direction, and filter sign reset.<br>* While an operation is prohibited, the operation icon lights up.  | ×          | 0       |
| Error information                     | When an error occurs, an error code and the unit address appear.<br>Contact number can be set to appear when an error occurs.<br>(The information above needs to be entered on the Service menu.)   | -          | 0       |
| Schedule (Weekly timer)               | Weekly ON/OFF times, operation mode, and set temperatures can be set.<br>• Time can be set in 5-minute increments. Up to 8 schedule patterns can be set per day of the week.<br>* Not valid when the ON/OFF timer is set.   | 0          | 0       |
| Timer                                 | ON/OFF timer<br>Turns ON and OFF daily at a set time.<br>• Time can be set in 5-minute increments.<br>• It is also possible to set the ON time only or the OFF time only.<br>Auto-OFF timer<br>Turns off the unit after a certain period of operation.<br>• Operation time can be set to a value from 30 to 240 in 10-minute increments.        | 0          | 0       |
| Energy-save control during<br>vacancy | When vacancy is detected by the occupancy sensor, the energy-save control assist function is activated. Four control types<br>are available for selection:<br>ON/OFF temperature/Fan speed/Thermo-off.<br>The brightness sensor can be used in conjunction with the occupancy sensor to detect the occupancy/vacancy status more<br>accurately. | 0          | 0       |

#### Functions

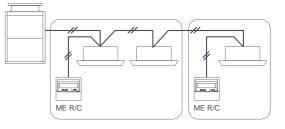
|  | : Each unit : Each group   | X: Not available   |                 |
|--|--|--------------------|-----------------|
| Item   | Description  | Operations Display |                 |
| ON/OFF   | ON and OFF operation for a single group  | 0                  | 0               |
| Operation mode switching   | Switches between Cool / Dry / Auto / Fan / Heat. Operation modes vary depending on the air conditioner unit.<br>Auto mode the CITY MULTI R2 and WR2 series only.   | 0                  | 0               |
| Temperature setting  | Sets the temperature for a single group<br>Range of temperature setting<br>Coo/Dry : 19°C - 30°C (14°C - 30°C), Heat: 17°C - 28°C (17°C - 28°C), Auto: 19°C - 28°C (17°C - 28°C)   | 0                  | 0               |
| Fan speed setting  | Models with 4 air flow speed settings: Hi/Mid-2/Nid-1/Low<br>Models with 3 air flow speed settings: Hi/Mid/Low<br>Fan speed setting varies depending on the model.   | 0                  | 0               |
| Air flow direction setting   | Air flow direction angles (4-angle, Swing) Louver ON/OFF<br>Air flow direction settings vary depending on the model.   | 0                  | 0               |
| Permit / Prohibit local operation  | Individually prohibit operation of each local remote control function (ON/OFF, Change operation mode, Set<br>temperature, Reset filter). *1: When the local remote controller inactivation command is received from the master<br>system controller, "-CENTRALLY CONTROLLED-" is displayed.  | x                  | O <sup>*1</sup> |
| Prohibition/permission of specified mode<br>(Cooling prohibited/heating prohibited<br>/cooling-heating prohibited) | By the setting from System Controller, the operation for the following modes is prohibited.<br>At cooling prohibited : Cool, Dry, Auto, At heating prohibited : Heat, Auto,<br>At cooling-heating prohibited : Cool, Heat, Dry, Auto   | x                  | 0               |
| Error  | When an error is currently occurring on an air conditioner unit, the afflicted unit and the error code are displayed.  | Х                  |                 |
| Timer operation  | Thanks to the three timer modes equipped, a proper mode can be selected to mee the usage.<br>One day timer : ON/OFF setting of one time on one day can be applied.<br>Daily timer : ON/OFF setting by the One day timer can be reperted for everyday.<br>Auto OFF timer can be set in a range from 30 minutes to 4 hours.<br>* Setting of Auto OFF timer automatically activates OFF timer at the next operation. This function can be utilized<br>to prevent the negligence of OFF setting. | 0                  | 0               |
| Ventilation equipment  | Up to 16 indoor units can be connected to an interlocked system that has one LOSSNAY. LOSSNAY items that can be set are "Hi" "Low" "Stop". Ventilation mode switching is not available.  | 0                  | 0               |
| Set temperature range limit  | Set temperature range limit to cooling, heating, or auto mode.   | 0                  | 0               |
| Auto lock function   | Setting/releasing of simplified locking for remote control switch can be performed.<br>• Locking of all switches • Locking of all switches except ON/OFF switch  | 0                  | 0               |

• This remote control requires non-polar wiring to only one indoor

· Group operation over multiple outdoor units is possible. Grouping can be changed without re-wiring, which makes dividing rooms for tenants easier.

• LCD temperature setting and display in 1°C/1°F increments.

#### Example of system configuration





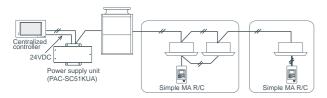
# Individual **Remote Controller**

### Simple remote controller PAC-YT52CRA (MA)



Dimensions: 70(W) x 120(H) x 14.5(D) mm : 2-3/4(W) x 4-23/32(H) x 9/16(D) in.

### Example of system configuration



### Dual set point

When the operation mode is set to the Auto (dual set point) mode, two preset temperatures (one each for cooling and heating) can be set. Depending on the room temperature, indoor unit will automatically operate in either the Cool or Heat mode and keep the room temperature within the preset range.

\*Please contact your Mitsubishi Electric sales office for details.

### Backlit LCD

Backlight for operation in dark place

### Flat back

Install without hole on wall Slim and flat type Thickness is less than 14.5mm [0.6(in)]

### • Vane button (standard)

The Vane button has been added to allow the user to change airflow direction (ceiling-cassette and wall-mounted types).

Pressing the  $\boxed{5}$  button will switch the vane directions.



\*The settable vane direction varies depending on the indoor unit model to be connected.

\* If the unit has no vane function, the vane direction cannot be set. In this case, the vane icon blinks when the  $\fbox{\label{eq:linear}}$  button is pressed.

- · The only wiring required is cross-over wiring based on two-wire signal lines.
- Room temperature sensors are built-in.
- Can operate all types of indoor units \*Since this controller has limited functions, it should always be used in conjunction with standard controller or centralized controller.
- · LCD temperature setting and display in 1°C /1°F increments.

### **Functions**

Each unit : Each group : Not available Operations Display Iten Description Changes between ON and OFF. ON/OFF Select from COOL, DRYING, FAN, AUTO, and HEAT. \* AUTO mode is settable only when those functions are available on the indoor unit Operation mode switching 0 0 Sets a room temperature. \* The preset temperature range varies depending on the indoor unit model to be connected. (The ranges for a standard model are as follows.) • COOL/DRY: 19°C - 30°C/67°F - 83°F • HEAT: 17°C - 28°C/63°F - 83°F • AUTO: 19°C - 28°C/67°F - 83°F 0 0 Temperature setting Changes the fan speed. \* The settable fan speed varies depending on the indoor unit model to be connected Fan speed setting 0 0 By setting a centralized controller, the following local operations are prohibited: ON/OFF; operation mode; 0 Permit / Prohibit local operation х preset temperature; \* The CENTRAL icon appears while the local operations are prohibited. Displays the current error status with the address. \* The address may not be displayed depending on the error status. Error х When the CITY MULTI indoor unit is connected, interlocked setting of the CITY MULTI LOSSNAY unit is possible. When the Mr. SLIM indoor unit (A-control) is connected, interlocked operation of the microcomputer-type LOSSNAY unit is possible. 0 Ventilation equipment 0 The preset temperature range can be restricted for each operation mode (COOL/HEAT/AUTO). Set temperature range limit 0

Remote Controller

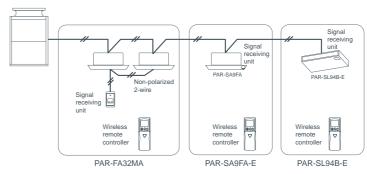


Dimensions: 58(W) x 159(H) x 19(D) mm : 2-5/16(W) x 6-5/16(H) x 3/4(D) in.



- No need to configure addresses for group operation.
- Can be used with the MA remote controller.
- \*When used in group configurations, wiring between indoor units is required.
- \*Combining ME remote controller and/or LOSSNAY remote controller in a group is not possible.
- LCD temperature setting and display in 1°C /1°F increments.

### Example of system configuration



### **Functions**

|                                   | ⊖: Each group  | $\times$ : Not ava | ailable |
|-----------------------------------|--|--------------------|---------|
| Item                              | Description  | Operations         | Displa  |
| ON/OFF                            | ON and OFF operation for a single group  | 0                  | 0       |
| Temperature setting               | Sets the temperature for a single group<br>Range of temperature setting<br>Cool/Dry : 19°C - 30°C (14°C - 30°C) / 67°F - 87°F (57°F - 87°F)<br>Heat : 17°C - 28°C (17°C - 28°C) / 63°F - 83°F (63°F - 83°F)<br>Auto : 19°C - 28°C (17°C - 28°C) / 67°F - 83°F (63°F - 83°F)<br>() For PEFY/PFFY by setting DipSW 7-1 to ON and limits to NI6H fan speed only.<br>* Set to PAR-FL32MA according to its Installation Manual 4 "Model setting". | 0                  | 0       |
| Air flow direction setting        | Air flow direction angles (4-angle, Świng) Auto Louver ON/OFF.<br>Air flow direction settings vary depending on the model.   | *                  | *       |
| Timer operation                   | One ON/OFF setting can be set for one day.   | 0                  | 0       |
| Permit / Prohibit local operation | Individually prohibit operation of each local remote control function (ON/OFF, Change operation mode, Set temperature, Reset filter).<br>*1 If operation is performed when the local remote controller inactivation command is received from the main system controller, a buzzer will ring and an LED will flash.   | x                  | 0       |
| Ventilation equipment             | Up to 16 indoor units can be connected to an interlocked system that has one LOSSNAY.  | X                  | X       |

Set the air flow direction and fan speed when performing initial setting.

### Wireless remote controller PAR-FL32MA / PAR-FA32MA / PAR-SA9FA



PAR-FA32MA

Dimensions: 70(W) x 120(H) x 22.5(D) mm : 2-3/4(W) x 4-3/4(H) x 7/8(D) in.



PAR-SL94B-E (Wireless remote controller kit for ceiling suspended) Dimensions: 182(W) x 57(H) x 31(D) mm

### • Lit LED keeps you informed of operation - blinking even gives you the error code via the number of blinks.

Correspondence table

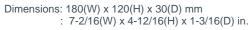
|   | receiver                  | transmitter |
|---|---------------------------|-------------|
| PMFY-P VBM<br>PLFY-P VCM/VLMD<br>PFFY-P VKM<br>PEFY-P VMR-E-L/R/VMH<br>PFFY-P VLEM/VKM/VLRM/VLRMM<br>PEFY-P VMS1(L) | PAR-FA32MA                |             |
| PEFY-VMA(L)   |                           | PAR-FL32MA  |
| PCFY-P VKM  | PAR-FA32MA<br>PAR-SL94B-E |             |
| PLFY-P VBM-E  | PAR-SA9FA-E               |             |
| PKFY-P VBM-E<br>PKFY-P VHM/VKM  | Built-in                  |             |

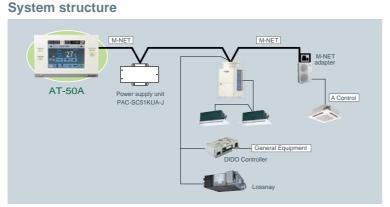


With our new Advanced Touch Controller AT-50A, easy and simple operation on the touch panel offers an optimal air environment for individual unit.

### **Advanced Touch controller AT-50A**







### Design

### Backlit LCD (Liquid Crystal Display) Touch Panel

5-inch color LCD touch panel enables easy and simple operation.

The backlight lights up when the panel is touched, and lights off after certain period of time. The touch panel displays the operation status of the units in GRID, LIST or in GROUP.









**GROUP screen** Displays the detailed operation status of each group. Sets group operations.

### Functions

### Three in One

The following three features are integrated into AT-50A. • Control up to 50 indoor units from one location

- A weekly programmable timer, being able to control up to 50 indoor units
- Control up to 50 units/50 groups of air conditioners

### Weekly and daily schedule

5 patterns of one day and 12 patterns of weekly schedule (16 settings max. per pattern). Two types of weekly schedule can be set.

### System changeover

Operation mode can be switched depending on indoor temperature setting and target temperature of each group or a representative indoor unit.

### Functions

### [Basic Functions]

- ON/OFF Operation mode switching
- Temperature setting
   Fan speed setting
- Airflow direction setting
   Louver setting

### **Advanced Functions**

|   | □: Each unit ○: Each group ◎: Group or collective   | X:Not ava  | ailable |  |
|---|---|------------|---------|--|
| Item  | Description   | Operations | Display |  |
| Permit / Prohibit   | The ON/OFF, operation mode, setting temperature and filter sign reset operations using the local remote controllers<br>can be prohibited.<br>Only ON/OFF and filter reset can be prohibited for the LOSSNAY group.  | 0          | 0       |  |
| Operation lock  | The operation lock can be set to the input operation of AT-50A.<br>Each button can be set. (Function Button 1, Function Button 2, Collective ON/OFF, Touch Panel)<br>Each function can be set. (Operation mode, Setting temperature, Fan speed, Menu button)<br>The password for the lock release can be set.   | 0          | 0       |  |
| Error display   | When an error is currently occurring on an air conditioner unit, the afflicted unit and the error code are displayed.<br>* When an error occurs, the "ON/OFF" LED flashes. The operation monitor screen show abnormal icon over the unit.<br>The error monitor screen shows the abnormal unit address and error code. The error log monitor screen shows the<br>time and date, the abnormal unit address, error code and source of detection. | x          |         |  |
| Ventilation (independent)   | Switches the mode "Bypass/Heat recovery/Auto" for LOSSNAY groups.   | 0          | 0       |  |
| Ventilation (interlocked)   | The LOSSNAY will run in interlock with the operation of indoor unit.<br>The mode cannot be changed. The LED will turn ON during operation after interlocking.   | 0          | 0       |  |
| Temperature-set<br>limitation   | Batch-setting to temperature range limit at cooling, heating, and auto mode.<br>This function cannot be used with the MA remote controller. (Depends on the indoor unit model.)   |            |         |  |
| Specific mode operation<br>prohibit (Cooling prohibit,<br>heating prohibit, cooling/<br>heating prohibit) | When set as the main controller, operation of the following modes with the local remote controllers can be prohibited.<br>When cooling is prohibited: Cooling, dry, automatic can not be chosen.<br>When heating is prohibited: Heating, automatic can not be chosen.<br>When cooling/heating is prohibited: Cooling, dry, heating, automatic can not be chosen.  |            |         |  |
| External input<br>(Emergency stop input, etc.)  | The following input with level signals or pulse signals are available.<br>Level signal: "Emergency stop input" or "Collective ON/OFF"<br>Pulse signal: "Collective ON/OFF" or "Local remote controller prohibit/permit"<br>One input can be selected from those above.<br>* An external input/output adapter (PAC-YT41HAA (sold separately)) is required.<br>Relays and DC power supply or other devices must be prepared at the site.        |            |         |  |
| External output<br>(Error output, operation output)   | "ON/OFF" and "error/normal" are output with the level signal.<br>* An external input/output adapter (PAC-YT41HAA (sold separately)) is required.<br>Relays and DC power supply or other devices must be prepared at the site.   |            |         |  |
| Checking the Gas Amount   | Use this function to check for refrigerant leak from the outdoor unit.<br>* When this function is used, the gas amount checking function of the outdoor unit cannot be used.<br>This function is for CITY MULTI R2 and Y (PUMY is excluded.) series only.   |            |         |  |
| Schedule operation  | Weekly schedule setting up to 12 pattern is available.<br>In one pattern, up to 16 setting of "ON/OFF", "Operation mode", "Set Temperature", "Fan speed", "Air flow direction"<br>and "Permit / Prohibit local operation" can be scheduled.<br>Two types of weekly schedule(Summer/Winter) can be set. Today's schedule setting up to 5 pattern in available.   |            |         |  |

\* Depending on the installation conditions, power supply unit (PAC-SC51KUA) is required. Please contact your local distributor or MITSUBISHI ELECTRIC branch office for further information.



### Night setback function

This function allows having a two-temperature setting to keep the desired room temperature when the units are not in operation and during the time this function is effective. The unit automatically starts heating (cooling) operation when the temperature drops below (rises above) the preset lower (upper) limit temperature. This is not only for comfort environment, but also for saving energy.

# Main system controller/Sub system controller

AT-50A can be set to Sub System controller. When connecting multiple system controllers, designate the system controller with many functions as the "Main", and set the system controllers with few functions as the "Sub".

### Simple button arrangement

The F1 (Function 1) and the F2 (Function 2) button can be set as a run button of the following collective operation. (Setback/Schedule/Operation Mode/Temperature Correction/Remote Controller Prohibition)

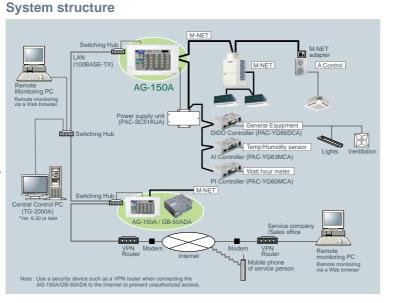
With a new colored touch panel, and continuation of all the G-50A functions, AG-150A visualizes its functions from basic control to advanced operations and bringing an ultimate controller to reality.

### **Centralized controller AG-150A**









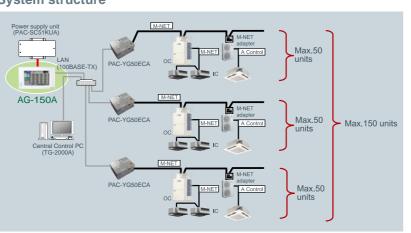
### Expansion Controller PAC-YG50ECA



Dimensions: 250(W) x 217(H) x 97.2(D) mm

: 9-7/8(W) x 8-9/16(H) x 3-7/8(D) in.

can be connected to AG-150A. System structure



\*Do not connect PAC-YG50ECA to TB3 of the outdoor unit.

\*Use a security device such as a VPN router when connecting the AG-150A etc. to the Internet to prevent unauthorized access.

### Design

### **Backlight color liquid crystal**

Backlight makes it easy to see and control units. One can identify whether a unit is ON or OFF from a distance. Control in the night with no lights is possible.

### Touch panel

9 inch wide, high-resolution Touch panel enables operation of units by touching with index finger. When object unit is touched, orange box appears around the unit icon indicating the unit selected.

### Flat back

Easy installation

Allows for an installation of the unit either directly to the wall surface\* or using the installation hole in the wall. \*Optional parts are required.

### **USB** memory compatible

Measurement/initial setting CSV data extractable with USB memory. Can save and overwrite setting data.

### **Functions**

|                                      | $\Box$ : Each unit $\bigcirc$ : Each group $lackstriangle$ : Each block $\triangle$ : Each floor $lackstriangle$ : Collec  | tive X∶Not a                           | vailable      |  |  |
|--------------------------------------|--|--|---------------|--|--|
| Item                                 | Description  | Operations                             | Display       |  |  |
| Controllable unit                    | 50 units/groups or 150 units/groups via expansion controller; PAC-YG50ECA.   |  |               |  |  |
| ON/OFF                               | Run and stop operation for the air conditioner units and general equipment.<br>(To operate general equipment, PAC-YG66DCA is required.)  | $\bigcirc \bigcirc \triangle \bigcirc$ | $\circ \circ$ |  |  |
| Mode selection                       | Switches between Cool / Dry / Auto / Fan / Heat. (Group of LOSSNAY unit : automatic ventilation/ vent - heat interchange/ normal ventilation) depending on the air conditioner unit. Auto mode is for CITY MULTI R2 and WR2 series only.   | $\bigcirc \bigcirc \land \bullet$      | 0             |  |  |
| Temperature setting                  | Cool/Dry : 19°C-30°C (14°C-30°C) / 67°F-87°F(57°F-87°F)<br>Heat : 17°C-28°C (17°C-28°C) / 63°F-83°F(63°F-83°F)<br>Auto : 19°C-28°C (17°C-28°C) / 63°F-83°F(63°F-83°F)<br>() in case of using middle-temperature on PEFY-VML/VMR/VMS/VMH by setting<br>DipSW7-1 to ON. Yet, PEFY-P-VMH-E-F is excluded. | $\bigcirc \bigcirc \triangle \bullet$  | 0             |  |  |
| Fan speed setting                    | Models with 4 air flow speed settings: Hi/Mid-2/Mid-1/Low<br>Models with 3 air flow speed settings: Hi/Mid/Low<br>Models with 2 air flow speed settings: Hi/Low<br>Fan speed setting (including Auto) varies depending on the model.   | $\bigcirc \bigcirc \triangle \bigcirc$ | 0             |  |  |
| Air flow direction setting           | Air flow direction angles, 4-angle or 5-angle Swing, Auto (Louver cannot be set)   | $\bigcirc \bigcirc \triangle \bigcirc$ | 0             |  |  |
| Schedule operation                   | Annaul/Weekly (5 types)/today schedule can be set for each group of air conditioning units.<br>Optimized startup setting is also available.  | $\bigcirc \bigcirc \triangle \bigcirc$ | 0             |  |  |
| Permit / Prohibit<br>local operation | Individually prohibit operation of each local remote control function<br>(Start/Stop, Change operation mode, Set temperature, Reset filter).   | $\bigcirc \bigcirc \triangle \bigcirc$ | 0             |  |  |
| Indoor unit intake temperature       | Measures the intake temperature of the indoor unit only when the indoor unit is operating.   | ×                                      | 0             |  |  |
| Error                                | When an error is currently occurring on an air conditioner unit, the afflicted unit and the error code are displayed.  | ×                                      |               |  |  |
| Test run                             | This operates air conditioner units in test run mode.  | $\bigcirc \bigcirc \triangle \bigcirc$ | 0             |  |  |
| Ventilation interlock                | The ventilation unit (LOSSNAY) is able to automatically start its operation when operation of the interlocked indoor unit starts.  | $\bigcirc \bigcirc \triangle \bigcirc$ | 0             |  |  |
| External input/output                | By using optional external input/output adaptor (PAC-YG10HA) you can set and monitor the following.<br>Input : By level signal : "Batch start/stop", "Batch emergency stop"<br>By pulse signal : "Batch start/stop", "Enable/disable local remote controller"<br>Output : "Start/stop", "Error/Normal" | O                                      | O             |  |  |



### Functions

### **Controllable units/groups**

Controls up to 50 units/groups (including indoor units, LOSSNAY, DIDO/AI/PI controller) Up to 150 units can be controlled via expansion controller; PAC-YG50ECA (AG-150A software needs to be upgraded to Ver. 2.10 or later.)

### Monitoring functions

Temperature/Humidity (using AI controller) General equipment such as lights on LCD (using DIDO controller)

Interlock function from AI controller, DIDO controller to indoor units and between DIDO units are available.

AG-150A interlock with DIDO controller or free contact on an indoor unit available. \* Ver. 2.30 or later

### **Energy saving functions**

Seasonal scheduling and automatic switch over \*1 Yearly scheduling on LCD \*1 Scheduling fan speed and airflow direction Optimized Start up External temperature interlock control Night setback control \*1 License required.

\*NOTE: Operation and displayed content vary depending on the indoor unit model Future release schedule is subject to change without notice.

Just press a switch to start. All of the units can be On/Off by pressing the main switch, and each unit in the group can be On/Off with individual switch. The PAC-YT40ANRA also has hardwired connection available (On/Off input, fire alarm input, run output, fault output).

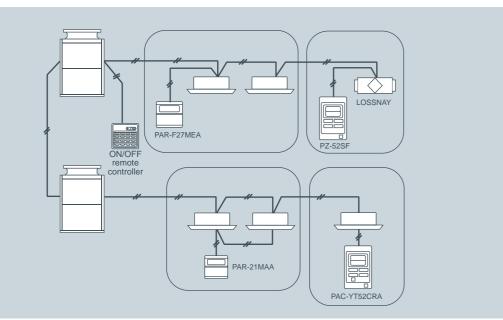
### **ON/OFF remote controller PAC-YT40ANRA**



- The group setting is kept in nonvolatile memory. No need to worry about re-setting at power failure.
- No individual AC power supply is needed. The power can be supplied from one outdoor unit (R410A) or Power supply unit.

Dimensions: 130(W) x 120(H) x 19(D) mm : 5-1/8(W) x 4-23/32(H) x 3/4(D) in.

### System example



| FUNCTION              | DESCRIPTION  | PAC-YT       | 40ANRA       |
|-----------------------|--|--------------|--------------|
| UNITS                 | Max No.Units   | 50 units/    | 16 groups    |
|                       |  | OPERATIONS   | DISPLAY      |
| ON/OFF                | Run and stop operation   | $\checkmark$ | $\checkmark$ |
|                       | LED flashes during failure.  |              |              |
| ERROR INDICATION      | (The error code can be confirmed by removing the cover.)             | -            |              |
| VENTILATION OPERATION | Group operation of only LOSSNAY units possible.                      |              | /            |
| (INDEPENDENT)         | *Only ON/OFF of group.   |              | $\checkmark$ |
|                       | The LOSSNAY will run in interlock with the operation of indoor unit. |              |              |
| VENTILATION OPERATION | *The fan rate and mode cannot be changed.                            | $\checkmark$ | $\checkmark$ |
| (INTERLOCKED)         | The LED will turn ON only during operation after interlocking.       |              |              |
| EXTERNAL INPUT        | On/Off/Fire Alarm  | $\checkmark$ | -            |
| EXTERNAL OUTPUT       | On/Off/Faults  | -            | $\checkmark$ |

Remote Controller





### Web Browser Enables monitoring and operation of indoor units using a PC with Microsoft<sup>®</sup> Internet Explorer (Ver.8 or Ver.9)

EB-50GU-J (without display) • Dimensions:9-7/8 (W) x 8-9/16 (H) x 3-7/8 (D) in. :250 (W) x 217 (H) x 97.2 (D) mm

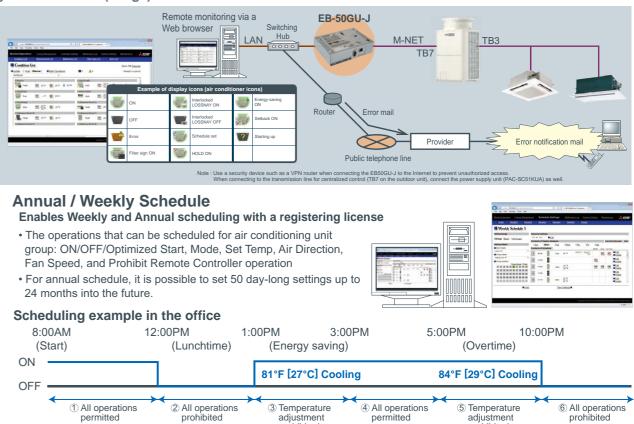
lava

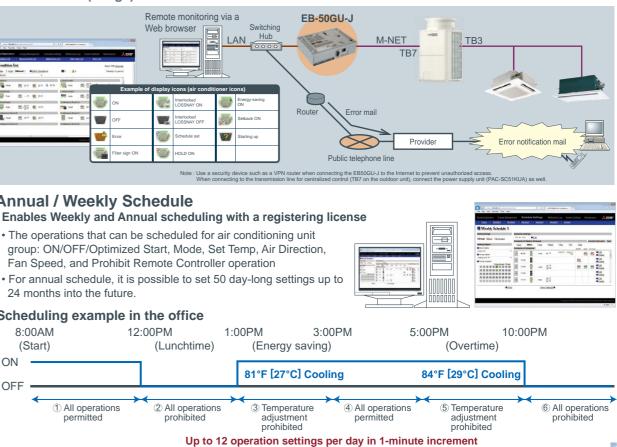
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lava™ is a registered trademark of Oracle® and/or its affiliates

| Java is a registered trademark | □:Each unit ○:Each group ●:Each block △:Each floor ◎:Collecti   | ve X:Not                     | available |  |
|--------------------------------|---|------------------------------|-----------|--|
| Function                       | Description   | Operations                   | Display   |  |
| ON / OFF                       | Run and stop operation for the air conditioner units  | $\bigcirc \bullet \odot$     | 00        |  |
| Mode selection                 | Switches between COOL/DRY/FAN/AUTO/HEAT   | $\bigcirc \bigcirc \bigcirc$ | 0         |  |
| Temperature setting            | The temperature can be set within the following range.<br>Cool/Drying: 67°F - 95°F/19°C - 35°C<br>Heat: 40°F - 83°F/4.5°C - 28°C<br>Auto (single set point): 67°F - 83°F/19°C - 28°C<br>Auto (dual set points)<br>[Cool] Same as the set temp. range for Cool mode. [Heat] Same as the set temp. range for Heat mode.<br>Setback (dual set points)<br>[Cool] Same as the set temp. range for Cool mode. [Heat] Same as the set temp. range for Heat mode.<br>*The settable temperature ranges and items vary depending on the indoor and outdoor unit models. | ○●⊚                          | 0         |  |
| Air flow direction setting     | Air flow direction angles, 4-angle or 5-angle Swing, Auto (Louver cannot be set)  | $\bigcirc \bigcirc \bigcirc$ |           |  |
| Timer operation / Schedule     | Annual/Weekly (5 types)/today schedule can be set for each group of air conditioning units. Optimized startup setting is also available.  | 000                          | 0         |  |
| Permit / Prohibit function     | Individually prohibit operation of each local remote control function   | $\bigcirc \bigcirc \bigcirc$ | 0         |  |
| Indoor unit intake temperature | Measures the intake temperature of the indoor unit only when the indoor unit is operating.  | X                            | Ō         |  |
| Error                          | When an error is currently occurring on an air conditioner unit, the afflicted unit and the error code are displayed.   | X                            |           |  |
| Test run                       | This operates air conditioner units in test run mode.   | $00\Delta$                   | 0         |  |
| Ventilation interlock          | Operation of indoor groups or general equipment can be interlocked by the change of state (ON/OFF, mode, error of indoor groups and general equipment).   |                              |           |  |
| AHC status                     | Displays the status of input and output ports of each Advanced HVAC CONTROLLER (AHC).   | X                            |           |  |
| Energy Use Status              | On the Energy Use Status screen, the energy-control-related status, such as electric energy consumption,<br>operation time, and outdoor temperature, can be displayed in a graph.<br>Operators can check the detailed status of given indoor units by specifying the date to display the data per group,<br>block, or unit address.   | ×                            |           |  |

### System Structure (image)





The Web Server Function enables Remote Operation or Scheduling Via a Web Browser on a Personal Computer! Up to 50 indoor units can be controlled!

NEW

\*When connecting to the Internet, please use the VPN (Virtual Private Network).

### Using "Dial-up Connection"

• Enables monitoring and operation from a remote place

• Enables error notification by e-mails to a PC or to a mobile phone

\*NOTE: Operation and displayed content vary depending on the indoor unit model.

### Centralized controller GB-50ADA-J\*



GB-50ADA (without display) • Dimensions:250 (W) x 217 (H) x 97.2 (D) mm :9-7/8 (W) x 8-9/16 (H) x 3-7/8 (D) in.

### \*GB-50ADA-J is indicated as GB-50ADA.

The Web Server Function enables Remote Operation or Scheduling Via a Web Browser on a Personal Computer! Up to 50 indoor units can be controlled!

### Web Browser

Enables monitoring and operation of indoor units using a PC with Microsoft<sup>®</sup> Internet Explorer (Ver.6 or 7 or 8) (Web browser function is an optional and needs license registration.) \*When connecting to the Internet, please use the VPN (Virtual Private Network).

### Using "Dial-up Connection"

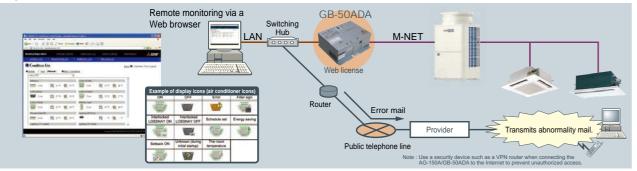
· Enables monitoring and operation from a remote place

• Enables error notification by e-mails to a PC or to a mobile phone

| Function                       | Description  |
|--------------------------------|--|
| Function                       | GB-50ADA (web browser)   |
| Controllable unit              | Up to 50 units/groups.   |
| Dimensions W x H x D           | 250 (9-7/8) x 217 (8-9/16) x 97.2 (3-7/8) mm (in)  |
| ON / OFF                       | Run and stop operation for the air conditioner units   |
| Mode selection                 | Switches between Cool / Dry / Auto / Fan / Heat.   |
| Temperature setting            | The temperature can be set within the following range.<br>Cool/Dry :10°C-30°C (14°C-30°C) / 67°F-87°F (57°F-87°F)<br>Heat :17°C-28°C (17°C-28°C) / 63°F-83°F (63°F-83°F)<br>Auto :19°C-28°C (17°C-28°C) / 67°F-83°F (63°F-83°F)<br>() in case of using middle-temperature on PEFY, PEFY-VML/VMR/VMS/VMH by setting DipSW7-1 to ON. Yet, PEFY-P-VMH-E-F is excluded.<br>*Set temperature range varies depending on the model. |
| Air flow direction setting     | Air flow direction angles, 4-angle or 5-angle Swing, Auto (Louver cannot be set)   |
| Schedule operation             | Annaul/Weekly (5 types)/today schedule can be set for each group of air conditioning units.<br>Optimized startup setting is also available.  |
| Permit / Prohibit function     | Individually prohibit operation of each local remote control function  |
| Indoor unit intake temperature | Measures the intake temperature of the indoor unit only when the indoor unit is operating.   |
| Error                          | When an error is currently occurring on an air conditioner unit, the afflicted unit and the error code are displayed.  |
| Test run                       | -  |
| Ventilation interlock          | Operation of indoor groups or general equipment can be interlocked by the change of state (ON/OFF, mode, error of indoor groups and general equipment).  |
|                                |  |

\*NOTE: Operation and displayed content vary depending on the indoor unit model. License registration is necessary to perform each function on GB-50ADA.

### **System Structure**



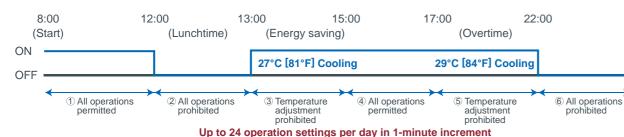
### Annual / Weekly Schedule

Enables Weekly and Annual scheduling with a registering license

- ON/OFF, operation mode, temperature setting, prohibit remote controller operation can be set.
- For annual schedule, it is possible to set 50 day-long settings up to 24 months into the future.



### Scheduling example in the office



Remote Controller

Page 149

# Centralized **Remote Controller**





Dimensions: 4-9/16(W) x 3-1/2(H) x 1-9/16(D) in. : 116(W) x 90(H) x 40(D) mm

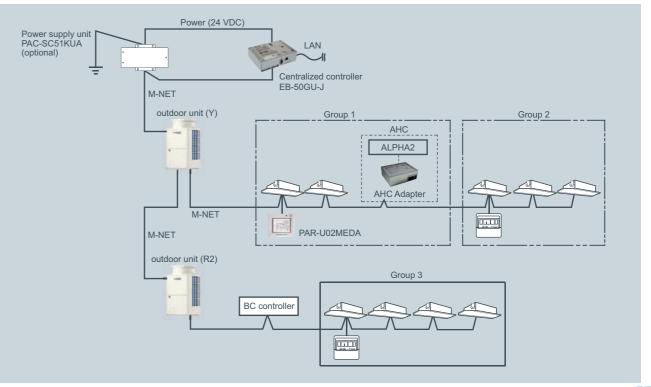
### AHC allows for the connection of MITSUBISHI ELECTRIC's air conditioning network system (hereafter referred to as M-NET) to other systems, which was not possible with the use of ALPHA2 alone. AHC provides the following functions.

- ① Controls external devices using the sensor data of the air conditioning units connected to M-NET.
- 2 Interlocks the operation of air conditioning units and external devices that are connected to ALPHA2.
- ③ Controls air conditioning units that are connected to M-NET.
- (4) Allows for the combined use of the items (1)-(3) above.
- (5) Monitors the input/output status of ALPHA2 via a remote controller or a centralized controller.

### **Compatible controllers**

- Remote Controller: PAR-U02MEDA
- Centralized Controller: EB-50GU-J
- \* Refer to the manual that came with ALPHA2 for information about ALPHA2. \* The use of AHC ADAPTER requires either a remote controller or a centralized controller.

### System Structure



### Advanced HVAC CONTROLLER (hereafter referred to as AHC) comprises of MITSUBISHI ELECTRIC'S AHC ADAPTER (PAC-IF01AHC-J) and α2 SIMPLE APPLICATION CONTROLLER\* (hereafter referred to as ALPHA2).

\*α2 SIMPLE APPLICATION CONTROLLER is one of the Programming Logic Controllers that are manufactured by MITSUBISHI ELECTRIC CORPORATION.

Remote Controller

### PI Controller PAC-YG60MCA



\*24 VDC power needs to be provided on site. Dimension: 200(W) x 120(H) x 45(D) mm : 7-7/8(W) x 4-3/4(H) x 1-13/16(D) in

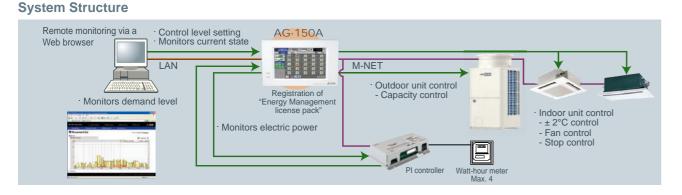
### **Energy Saving Control (Peak Cut)**

Enables Energy Saving Control with the use of our new PI controller. (Registration of "Energy Management license pack" is required.)

To perform energy saving, the capacity of the outdoor unit is controlled.

\*Please note that when using an energy saving control,

there are no warranties to failures such as usage over the contracted electricity.



No more PLCs are needed!

saving without PLC, which is cost saving.

and can be used also for charge calculation.

Capacity

Our new PI controller makes it possible to perform energy

Maximum of 4 measurement meter (WHM, gas meter, water

meter, calorie meter) can be connected to the PI controller

Capacity Value

effects

mum Capacity at 80%

o energy-saving. With energy-savining effects

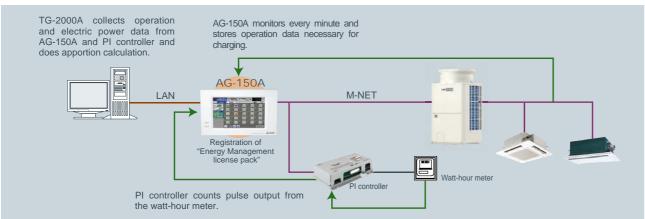
1 Amour

- Time

### Charge Calculation

Enables charge calculation for each tenant and output as CSV file

### **System Structure**



### DIDO Controller PAC-YG66DCA



Dimension: 200(W) x 120(H) x 45(D) mm : 7-7/8(W) x 4-3/4(H) x 1-13/16(D) in.

### General-purpose equipment Control

lights, ventilators, etc.)

**System Structure** 

• In addition to above, the air-conditioners can be interlocked with general-purpose equipment. E.g. Interlock between indoor units and security system.

• The indoor units can be turned ON/OFF when the security system is activated/deactivated.



### AI Controller PAC-YG63MCA

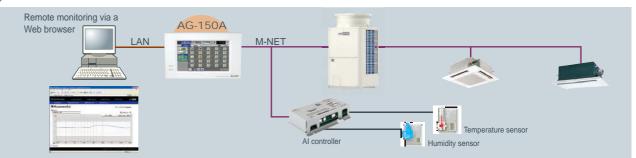


Dimension: 200(W) x 120(H) x 45(D) mm : 7-7/8(W) x 4-3/4(H) x 1-13/16(D) in.

Monitors the values measured by the temperature/humidity sensor connected to the AI controller

- Trend displays of measurement data can be shown on a Web browser.
- · An alarm can be output by e-mail when measurement data exceeds a preset upper or lower limit.

### System Structure



Remote Controller

No more PLCs are needed! Our new DIDO controller makes it possible to control general-purpose equipment without PLC, which is cost saving. Up to 6 general-purpose equipment can be connected to the DIDO controller.

\*24 VDC power needs to be provided on site.



### Enables to control and monitor equipment other than air-conditioners (air-conditioners of other companies,

Our new AI controller makes it possible to monitor the values measured by the temperature/humidity sensor connected to the AI controller.

The AI controller has two input and two output channels. \*24 VDC power needs to be provided on site.

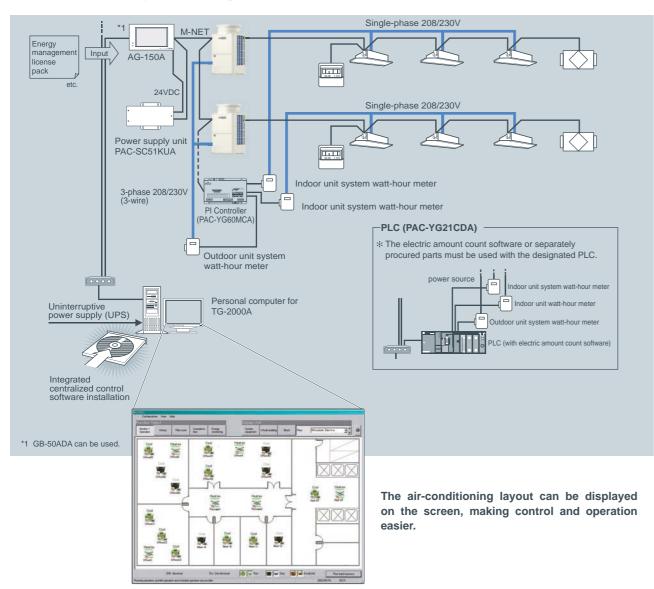
### Temperature/Humidity Monitoring

Temperature : Pt100, 4 to 20mA DC, 1 to 5 VDC, 0 to 10 VDC Humidity : 4 to 20mA DC, 1 to 5 VDC, 0 to 10 VDC

Remote Controller

### Integrated centralized control software TG-2000A

### Example of Basic System Configuration



### Effective use of TG-2000A

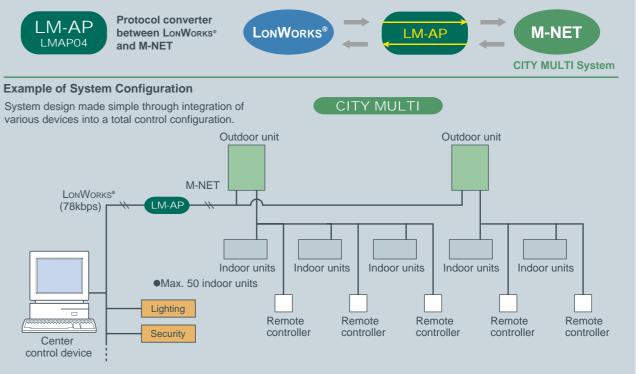
Multiple air conditioning charges in multiple buildings can be calculated. The power apportionment percentage data and apportioned power rate can be calculated for each unit, and can be output as a CSV file.

For example, installing TG-2000A to the system in the headquarters makes it possible to control AG-150A, EB50GU-J, or GB-50ADA-J units that are used in branch offices.

### LONWORKS® (LMAP04)

CITY MULTI can easily combine into a Building Management System (BMS) via the LONWORKS® and M-NET adapter LMAP04. LONWORKS<sup>®</sup> is an opened transmission protocol widely used at BMS, and related equipment control. CITY MULTI is therefore compatible with large-scaled BMS management via LONWORKS\*.

One LM ADAPTER unit can connect up to 50 Groups/50 indoor units. Using a single LONWORKS® adapter (LM-AP), you can connect up to a maximum of 50 indoor units.



### LONWORKS<sup>®</sup>

The building management system is connected to the CITY MULTI air conditioning system using LONWORKS\*, which is widely used on field networks, allowing for an open network and savings in construction to face.

### LON, LONWORKS® and the Echelon logo are trademarks of Echelon Corporation registered in the United States and other countries.

| LonWorks <sup>®</sup> INTERFACE |   |
|---------------------------------|---|
| FUNCTION                        | CONTENT   |
| Control                         |   |
| ON/OFF                          | Run/Stop  |
| Mode Operation                  | Cooling/Drying/Heating/Auto/Fan/Setback         |
| Setpoint Adjustment             | Cooling 19-35°C, Heating 4.5-28°C, Auto 19-28°C |
| Fan Speed Control               | Lo-Mi1-Mi2-Hi                                   |
| Permit/Prohibit                 | ON/OFF, Mode, Setpoint                          |
| Emergency Stop                  | -   |
| Monitoring                      |   |
| ON/OFF                          | Run/Stop  |
| Mode                            | Cooling/Drying/Heating/Auto/Fan/Setback         |
| Setpoint                        | Cooling 19-35°C, Heating 4.5-28°C, Auto 19-28°C |
| Fan Speed                       | Lo-Mi1-Mi2-Hi                                   |
| Permit/Prohibit                 | ON/OFF, Mode, Setpoint                          |
| Alarm State                     | •   |
| Room Temperature                | -10°C~50°C                                      |
| Thermo ON/OFF                   | ON/OFF  |



Remote Controller



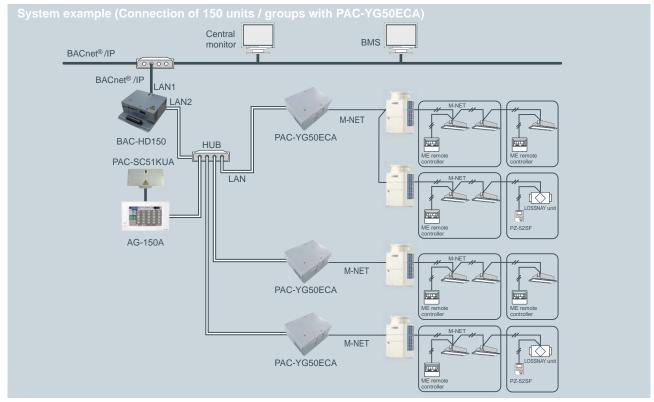
### **BACnet® (BAC-HD150)**

CITY MULTI can easily combine into a Building Management System (BMS) via the BACnet® and M-NET adapter BAC-HD150. BACnet® is an opened transmission protocol widely used at BMS, and related equipment control. CITY MULTI is therefore compatible with large-scaled BMS management via BACnet®.

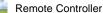
### BAC-HD150 can control up to 50 units/groups (including LOSSNAY).

Up to 150 units/groups (including LOSSNAY) can be controlled from one BAC-HD150 with three expansion controllers PAC-YG50ECA. (50 units/PAC-YG50ECA)

When the dual-set-point function is used, no expansion controllers can be connected, and only up to 50 units/groups can be controlled from each BAC-HD150.



| FUNCTION            | CONTENT   |
|---------------------|---|
| Operation           |   |
| ON/OFF              | Run/Stop  |
| Mode                | Cool/Dry/Heat/Auto/Fan/Setback  |
| Fan Speed           | Low-Mid1-Mid2-Hi  |
| Airflow Direction   | Horizontal- 60°-80°-100°swing   |
| Set Temperature     | Cooling 19-35°C [67-95°F], Heating 4.5-28°C [40-83°F], Auto 19-28°C [67-83°F] |
| Filter Sign Reset   | Normal/Reset  |
| Permit/Prohibit     | ON/OFF, Mode, Filter sign reset, Set temp.                                    |
| Forced OFF          | Release/Effective   |
| Monitoring          |   |
| ON/OFF              | Run/Stop  |
| Mode                | Cool/Dry/Heat/Fan/Setback   |
| Fan Speed           | Low-Mid1-Mid2-Hi  |
| Air Direction       | Horizontal- 60°-80°-100°swing   |
| Set Temperature     | Cooling 19-35°C [67-95°F], Heating 4.5-28°C [40-83°F], Auto 19-28°C [67-83°F] |
| Filter Sign         | Normal/Reset  |
| Permit/Prohibit     | ON/OFF, Mode, Filter sign reset, Set temp.                                    |
| Indoor Temperature  |   |
| Alarm Signal        | Normal/Abnormal   |
| Error Code          | 2 Character code- Indicates all unit alarms                                   |
| Communication State | Normal/Abnormal   |





# O ptional parts

# **OPTIONAL PARTS FOR INDOOR UNITS**

### >>4-way cassette type (PLFY-VBM/VCM)

| Description                      | Model               | Applicable capacity                 |                    | Remarks   |
|----------------------------------|---------------------|-------------------------------------|--------------------|---|
| Description                      | wodei               | VBM                                 | VCM                | Remarks   |
| Decoration panel                 | SLP-2AAW / SLP-2ALW | -                                   | P20, P25, P32, P40 | SLP-2ALW is for PLFY-P-VCM-E2 or later model only<br>For more detailed information, please contact your<br>nearest sales office or distributor. |
|                                  | PLP-6BA             | P32, P40, P50, P63, P80, P100, P125 | -                  |   |
| Automatic Filter Elevation Panel | PLP-6BAJ            | P32, P40, P50, P63, P80, P100, P125 | -                  |   |
| Multi-functional casement        | PAC-SH53TM-E        | P32, P40, P50, P63, P80, P100, P125 | -                  |   |
| High-efficiency filter element   | PAC-SH59KF-E        | P32, P40, P50, P63, P80, P100, P125 | -                  |   |
| Wireless signal receiver         | PAR-SA9FA-E         | P32, P40, P50, P63, P80, P100, P125 | -                  |   |
| Space panel                      | PAC-SH48AS-E        | P32, P40, P50, P63, P80, P100, P125 | -                  |   |
| "i-see" sensor                   | PAC-SA1ME-E         | P32, P40, P50, P63, P80, P100, P125 | -                  |   |
| Duct flange for fresh air intake | PAC-SH65OF-E        | P32, P40, P50, P63, P80, P100, P125 | -                  |   |
| Shutter plate                    | PAC-SH51SP-E        | P32, P40, P50, P63, P80, P100, P125 | -                  |   |

### >>2-way cassette type (PLFY-VLMD)

| Description       | Model        | Applicable capacity                     | Description      | Model     | Applicable capacity |
|-------------------|--------------|---|------------------|-----------|---------------------|
|                   | CMP-40VLW-C  | P20, P25, P32, P40                      | Decoration panel | PMP-40BMW | P20, P25, P32, P40  |
| Decoration panel  | CMP-63VLW-C  | P50, P63                                |                  |           |                     |
| Decoration parier | CMP-100VLW-C | P80, P100                               |                  |           |                     |
|                   | CMP-125VLW-C | P125                                    |                  |           |                     |
| OA duct flange    | PAC-KH11OF   | P20, P25, P32, P40, P50, P63, P80, P100 |                  |           |                     |

### >>Ceiling concealed type (PEFY-VMH(S))

| Description      | Model         | Applicable capacity | Remarks                                 |
|------------------|---------------|---------------------|---|
| Droin numn       | PAC-KE04DM-F  | P40~P250VMH         |   |
| Drain pump       | PAC-KE05DM-F  | P200, P250VMHS      |   |
|                  | PAC-KE86LAF   | P40, P50, P63       |   |
|                  | PAC-KE88LAF   | P71, P80            |   |
| Long life filter | PAC-KE89LAF   | P100, P125, P140    |   |
|                  | PAC-KE85LAF   | P200, P250          |   |
|                  | PAC-KE63TB-F  | P40, P50, P63       |   |
| Eiter hau        | PAC-KE80TB-F  | P71, P80            |   |
| Filter box       | PAC-KE140TB-F | P100, P125, P140    | Necessary when long life filter is used |
|                  | PAC-KE250TB-F | P200, P250          |   |

### >>Ceiling concealed type (PEFY-VMA(L))

| 5 71        |              |                     |
|-------------|--------------|---------------------|
| Description | Model        | Applicable capacity |
|             | PAC-KE91TB-E | P20, P25, P32       |
|             | PAC-KE92TB-E | P40,P50             |
| Filter box  | PAC-KE93TB-E | P63, P71, P80       |
|             | PAC-KE94TB-E | P100, P125          |
|             | PAC-KE95TB-E | P140                |

### >>Fresh air intake type (PEFY-VMH-E-F)

| Description      | Model         | Applicable capacity   |  |
|------------------|---------------|-----------------------|--|
|                  | PAC-KE88LAF   | P80                   |  |
| Long life filter | PAC-KE89LAF   | P140                  |  |
|                  | PAC-KE85LAF   | P200, P250            |  |
|                  | PAC-KE80TB-F  | P80                   |  |
| Filter box       | PAC-KE140TB-F | P140                  |  |
|                  | PAC-KE250TB-F | P200/P250             |  |
| Drain pump       | PAC-KE04DM-F  | P80, P140, P200, P250 |  |

### >>Ceiling suspended type (PCFY-VKM)

| Description                    | Model        | Applicable capacity |  |
|--------------------------------|--------------|---------------------|--|
| Desis surger Lit               | PAC-SH83DM-E | P40                 |  |
| Drain pump kit                 | PAC-SH84DM-E | P63,100,125         |  |
|                                | PAC-SH88KF-E | P40                 |  |
| High efficiency filter         | PAC-SH89KF-E | P63                 |  |
|                                | PAC-SH90KF-E | P100,125            |  |
| Wireless remote controller kit | PAR-SL94B-E  | P40,63,100,125      |  |

### >>Ceiling concealed type (PEFY-VMS1(L))

| Description             | Model        | Applicable capacity                              |  |  |
|-------------------------|--------------|--|--|--|
| Drain pump              | PAC-KE07DM-E | P15, 20, 25, 32, 40, 50, 63 *For PEFY-VMS1L only |  |  |
| Control box replace kit | PAC-KE70HS-E | P15, 20, 25, 32, 40, 50, 63                      |  |  |

### >>Wall mounted type (PKFY-VBM/VHM/VKM)

|  | Description      | Model        |  |  |
|--|------------------|--------------|--|--|
|  | External LEV Box | PAC-SG95LE-E |  |  |
|  | Drain pump kit   | PAC-SH75DM-E |  |  |
|  | Drain pump kit   | PAC-SH94DM-E |  |  |

### >>1-way cassette type(PMFY-VBM)

| Applicable capacity         |  |
|-----------------------------|--|
| P15, 20, 25, 32, 40, 50, 63 |  |
| P32, 40, 50                 |  |
| P63,100                     |  |
|                             |  |

Optional parts

# **OPTIONAL PARTS FOR OUTDOOR UNITS**

### >>For PUCY series

| Description          | Model         | Remarks                                      |  |  |
|----------------------|---------------|--|--|--|
|                      | CMY-Y100VBK3  | For PUCY-P550~P650 / EP400~EP650YSKA         |  |  |
| Twinning kit         | CMY-Y200VBK2  | For PUCY-P700~P1000 / EP700YSKA              |  |  |
|                      | CMY-Y300VBK3  | For PUCY-P1050~P1350 / EP750~EP1100YSKA      |  |  |
|                      | CMY-Y102SS-G2 | 200 or below (Total capacity of indoor unit) |  |  |
|                      | CMY-Y102LS-G2 | 201-400 (Total capacity of indoor unit)      |  |  |
|                      | CMY-Y202S-G2  | 401-650 (Total capacity of indoor unit)      |  |  |
| Branch pipe (Joint)  |               | The 1st branch of P450~P650                  |  |  |
|                      | 010/1/0000.00 | 651 or above (Total capacity of indoor unit) |  |  |
|                      | CMY-Y302S-G2  | The 1st branch of P700~P1250                 |  |  |
|                      | CMY-Y104-G    | For 4 branches                               |  |  |
| Branch pipe (Header) | CMY-Y108-G    | For 8 branches                               |  |  |
|                      | CMY-Y1010-G   | For 10 branches                              |  |  |

Note : Indoor unit capacities: the capacity of an indoor unit is the same as the number used for its type identification.

### >>For PUMY series

| Description                        | Model        |  |  |
|------------------------------------|--------------|--|--|
| Branch Pipe (2 Branch)             | CMY-Y62-G-E  |  |  |
| Header                             | CMY-Y64-G-E  |  |  |
| Header                             | CMY-Y68-G-E  |  |  |
| Drain Socket                       | PAC-SG61DS-E |  |  |
| Centralized Drain Pan              | PAC-SH97DP-E |  |  |
| Port Connector (ø9.52 ø12.7)       | PAC-SG73RJ-E |  |  |
| Port Connector (ø15.88 ø19.05)     | PAC-SG75RJ-E |  |  |
| Air Protect Guide (2 pcs required) | PAC-SH95AG-E |  |  |
| Air Outlet Guide                   | PAC-SH96SG-E |  |  |
| Base Heater                        | PAC-SJ20BH-E |  |  |
| Air Outlet Guide                   | PAC-SH96SG-E |  |  |

### >>For PUHY series

| Description          | Model          | Remarks                                      |  |  |
|----------------------|----------------|--|--|--|
|                      | CMY-Y100VBK2   | For PUHY-P500~P650YSHA / EP400~EP600YSJM     |  |  |
| Twinning kit         | CMY-Y200VBK2   | For PUHY-P700~P900YSHA                       |  |  |
|                      | CMY-Y300VBK2   | For PUHY-P950~P1250YSHA / EP650~EP900YSJM    |  |  |
|                      | CMY-Y102SS-G2  | 200 or below (Total capacity of indoor unit) |  |  |
|                      | CMY-Y102LS-G2  | 201-400 (Total capacity of indoor unit)      |  |  |
| Branch pipe (Joint)  | CMY-Y202S-G2   | 401-650 (Total capacity of indoor unit)      |  |  |
|                      |                | The 1st branch of P450~P650                  |  |  |
|                      | CMY-Y302S-G2   | 651 or above (Total capacity of indoor unit) |  |  |
|                      | GIVIT-13025-G2 | The 1st branch of P700~P1250                 |  |  |
|                      | CMY-Y104-G     | For 4 branches                               |  |  |
| Branch pipe (Header) | CMY-Y108-G     | For 8 branches                               |  |  |
|                      | CMY-Y1010-G    | For 10 branches                              |  |  |
| Control box guard    | PAC-KK45HY     | For PUHY-P-Y(S)HA                            |  |  |

Note : Indoor unit capacities: the capacity of an indoor unit is the same as the number used for its type identification.

### >>For PURY series

| Description          | Model         | Remarks  |  |  |
|----------------------|---------------|--|--|--|
|                      | CMY-R100VBK   | For PURY-P400~P650 / EP400~EP600YSJM                             |  |  |
| Twinning kit         | CMY-R200VBK   | For PURY-P700~P800YSJM   |  |  |
| Twitting Kit         | CMY-R100XLVBK | For PURY-P800 / EP600~700YSJM                                    |  |  |
|                      | CMY-R200XLVBK | For PURY-P850~900YSJM  |  |  |
|                      | CMY-Y102SS-G2 | 200 or below (Total capacity of indoor unit)                     |  |  |
| Bronch nine ( laint) | CMY-Y102LS-G2 | 201-400 (Total capacity of indoor unit)                          |  |  |
| Branch pipe (Joint)  | CMY-Y202S-G2  | 401-650 (Total capacity of indoor unit)                          |  |  |
|                      | GW1-12023-02  | The 1st branch of P450~P650                                      |  |  |
| Relay box            | PAC-BH02KTY-E | Relay box should be used together with Base heater PAC-BH-EHT-E. |  |  |
|                      | PAC-BH01EHT-E | For S Module   |  |  |
| Base heater          | PAC-BH02EHT-E | For L Module   |  |  |
|                      | PAC-BH03EHT-E | For XL Module  |  |  |

Note : Indoor unit capacities: the capacity of an indoor unit is the same as the number used for its type identification

For 4 branches

For 8 branches

 CMY-Y1010-G
 For 10 branches

 CMY-Y100VBK2
 For PQHY-P400-P600YSHM-A

CMY-Y300VBK2 For PQHY-P650-P900YSHM-A

### >>For PQHY series Descriptio Model

CMY-Y104-G

CMY-Y108-G

Branch pipe (Joint)

Branch pipe (Header)

Twinning kit

| >>For | PQRY | series |
|-------|------|--------|
|-------|------|--------|

| I            | Model                                   | Remarks                                      | Description        | Model                                   | Remarks                                      |
|--------------|---|--|--------------------|---|--|
|              | CMY-Y102SS-G2                           | 200 or below (Total capacity of indoor unit) | Dense size (loist) | CMY-Y102SS-G2                           | 200 or below (Total capacity of indoor unit) |
|              | CMY-Y102LS-G2                           | 201-400 (Total capacity of indoor unit)      |                    | CMY-Y102LS-G2                           | 201-400 (Total capacity of indoor unit)      |
| CMY-Y202S-G2 | 401-650 (Total capacity of indoor unit) | Branch pipe (Joint)                          | CMY-Y202S-G2       | 401-650 (Total capacity of indoor unit) |  |
|              | The first branch of P400-P600           |  |                    | The first branch of P400-P600           |  |
|              | CMY-Y302S-G2                            | 651 or above (Total capacity of indoor unit) | Twinning kit       | CMY-Q100VBK                             | For PQRY-P400-P600YSHM-A                     |
| 1            | CMV V104 C                              | For 4 bronches                               |                    |   |  |

### Snow Hood

Prevention the Outdoor unit from wind and snow damages in cold or snowy areas, snow hood is recommended and helpful.

\*Do not use a snow hood made of stainless steel, which may cause the unit to rust. If the use of a stainless snow hood is the only option, contact the sales office before installing it. Refer to the data book for details.

Optional parts

# **OPTIONAL PARTS FOR CONTROL**

| Model         | Description                            | Model       | Description   |
|---------------|--|-------------|---|
| PAC-SE41TS-E  | Remote Sensor for A/J/K/M-Net Control  | PAC-YG10HA  | External input/output adapter for AG-150A                                   |
| PAC-SE55RA-E  | Remote ON/OFF adaptor for Indoor Unit  | PAC-YG50ECA | Expansion controller for AG-150A  |
| PAC-SA88HA-EP | Remote Display Adaptor for Indoor Unit | PAC-SC51KUA | Power supply unit for AG-150A / GB-50ADA                                    |
| PAC-SA89TA-EP | Timer Adaptor for remote controller    | PAC-YG81TB  | Mounting attachment B type for AG-150A wall-mount installations             |
| PAC-SC37SA-E  | Output signal connector                | PAC-YG83UTB | Electric box for AG-150A wall-embed installations                           |
| PAC-SC36NA-E  | Input signal connector                 | PAC-YG85KTB | Mounting attachment A type for AG-150A/PAC-SC51KUA wall-mount installations |
| PAC-SF46EPA   | Transmission booster                   | PAC-YG71CBL | Black surface cover for AG-150A   |
| LMAP04-E      | Air conditioner interface              |             |   |
| PAC-YG11CDA   | Electric amount count software         |             |   |
| PAC-YG31CDA   | BAC net®interface                      |             |   |
| BAC-HD150     | BAC net <sup>®</sup> and M-NET adapter |             |   |

### **OPTIONAL EQUIPMENT FOR BC CONTROLLER** Branch nine

| BC Controller Model          | Junction pipe kit |
|------------------------------|-------------------|
| CMB-P104V-G1, GB1            |                   |
| CMB-P105V-G1                 |                   |
| CMB-P106V-G1                 |                   |
| CMB-P108V-G1, GA1, GB1       | CMY-R160-J1       |
| CMB-P1010V-G1, GA1           |                   |
| CMB-P1013V-G1, GA1           |                   |
| CMB-P1016V-G1, GA1, HA1, HB1 |                   |



CMY-Y102SS-G2

Optional parts



# Installation information

### **1.** General precautions

### 1-1. Usage

- The air-conditioning system described in this catalogue is designed for human comfort.
- This product is not designed for preservation of food, animals, plants, precision equipment, or art objects. To prevent quality loss, do not use the product for purposes other than what it is designed for.
- ◆To reduce the risk of water leakage and electric shock, do not use the product for air-conditioning vehicles or vessels.

### 1-2. Installation environment

- \*Do not install any unit other than the dedicated unit in a place where the voltage changes a lot, large amounts of mineral oil (e.g., cutting oil) are present, cooking oil may splash, or a large quantity of steam can be generated such as a kitchen.
- Do not install the unit in acidic or alkaline environment.
- Installation should not be performed in the locations exposed to chlorine or other corrosive gases. Avoid near a sewer.
- ♦To reduce the risk of fire, do not install the unit in a place where flammable gas may be leaked or inflammable material is present.
- \*This air conditioning unit has a built-in microcomputer. Take the noise effects into consideration when deciding the installation position. Especially in a place where antenna or electronic device are installed, it is recommended that the air conditioning unit be installed away from them.
- Install the unit on a solid foundation according to the local safety measures against typhoons, wind gusts, and earthquakes to prevent the unit from being damaged, toppling over, and falling.

### 1-3. Backup system

In a place where air conditioner's malfunctions may exert crucial influence, it is recommended to have two or more systems of single outdoor units with multiple indoor units.

### 1-4. Unit characteristics

- Heat pump efficiency depends on outdoor temperature. In the heating mode, performance drops as the outside air temperature drops. In cold climates, performance can be poor. Warm air would continue to be trapped near the ceiling and the floor level would continue to stay cold. In this case, heat pumps require a supplemental heating system or air circulator. Before purchasing them, consult your local distributor for selecting the unit and system.
- When the outdoor temperature is low and the humidity is high, the heat exchanger on the outdoor unit side tends to collect frost, which reduces its heating performance. To remove the frost, Auto-defrost function will be activated and the heating mode will temporarily stop for 3-10 minutes. Heating mode will automatically resume upon completion of defrostprocess.
- Air conditioner with a heat pump requires time to warm up the whole room after the heating operation begins, because the system circulates warm air in order to warm up the whole room.
- The sound levels were obtained in an anechoic room. The sound levels during actual operation are usually higher than the simulated values due to ambient noise and echoes. Refer to the section on "SOUND LEVELS" for the measurement location.
- \*Depending on the operation conditions, the unit generates noise caused by valve actuation, refrigerant flow, and pressure changes even when operating normally. Please consider to avoid location where quietness is required.

For BC controller, it is recommended to unit to be installed in places such as ceilings of corridor, restrooms and plant rooms.

The total capacity of the connected indoor units can be greater than the capacity of the outdoor unit. However,

when the connected indoor units operate simultaneously, each unit's capacity may become smaller than the rated capacity.

When the unit is started up for the first time within 12 hours after power on or after power failure, it performs initial startup operation (capacity control operation) to prevent damage to the compressor. The initial startup operation requires 90 minutes maximum to complete, depending on the operation load.

### 1-5. Relevant equipment

- Consult your local distributor or a qualified technician when installing an earth leakage breaker. +If the unit is inverter type, select an earth leakage breaker for handling high harmonic waves and surges.
- accurate because the leakage current from other systems may be included to the measurement value. type unit and its equipment.
- If a large current flows due to the product malfunctions or faulty wiring, both the earth leakage breaker on the system or coordinate all the breakers depending on the system's priority level.

### 1-6. Unit installation

- carefully before performing installation work.
- ungualified person may result in water leakage, electric shock, or fire. Ensure there is enough space around each unit.

### 1-7. Optional accessories

- electric leakage, system breakdown, or fire.
- for the installation conditions. Check the compatibility when considering any accessories. Note that some optional accessories may affect the air conditioner's external form, appearance, weight, operating sound, and other characteristics.

### 1-8. Operation/Maintenance

- ♦Read the Instruction Book that is provided with each unit carefully prior to use. Maintenance or cleaning of each unit may be risky and require expertise. Read the Instruction Book to ensure safety.
- indoor unit needs to be cleaned.

•Use an earth leakage breaker (ELB) with medium sensitivity, and an activation speed of 0.1 second or less.

+Leakage current is generated not only through the air conditioning unit but also through the power wires. Therefore, the leakage current of the main power supply is greater than the total leakage current of each unit. Take into consideration the capacity of the earth leakage breaker or leakage alarm when installing one at the main power supply. To measure the leakage current simply on site, use a measurement tool equipped with a filter, and clamp all the four power wires together. The leakage current measured on the ground wire may not

+Do not install a phase advancing capacitor on the unit connected to the same power system with an inverter

product side and the upstream overcurrent breaker may trip almost at the same time. Separate the power

+Your local distributor or a qualified technician must read the Installation Manual that is provided with each unit

Consult your local distributor or a qualified technician when installing the unit. Improper installation by an

Only use accessories recommended by Mitsubishi Electric. Consult your local distributor or a qualified technician when installing them. Improper installation by an unqualified person may result in water leakage,

Some optional accessories may not be compatible with the air conditioning unit to be used or may not suitable

Consult your local distributor or a qualified technician when special expertise is required such as when the

when the connected indoor units operate simultaneously, each unit's capacity may become smaller than the rated capacity.

When the unit is started up for the first time within 12 hours after power on or after power failure, it performs initial startup operation (capacity control operation) to prevent damage to the compressor. The initial startup operation requires 90 minutes maximum to complete, depending on the operation load.

### 1-5. Relevant equipment

♦Use an earth leakage breaker (ELB) with medium sensitivity, and an activation speed of 0.1 second or less. Consult your local distributor or a qualified technician when installing an earth leakage breaker.

- +If the unit is inverter type, select an earth leakage breaker for handling high harmonic waves and surges.
- +Leakage current is generated not only through the air conditioning unit but also through the power wires. Therefore, the leakage current of the main power supply is greater than the total leakage current of each unit. Take into consideration the capacity of the earth leakage breaker or leakage alarm when installing one at the main power supply. To measure the leakage current simply on site, use a measurement tool equipped with a filter, and clamp all the four power wires together. The leakage current measured on the ground wire may not accurate because the leakage current from other systems may be included to the measurement value.
- +Do not install a phase advancing capacitor on the unit connected to the same power system with an inverter type unit and its equipment.
- +If a large current flows due to the product malfunctions or faulty wiring, both the earth leakage breaker on the product side and the upstream overcurrent breaker may trip almost at the same time. Separate the power system or coordinate all the breakers depending on the system's priority level.

### 1-6. Unit installation

- +Your local distributor or a qualified technician must read the Installation Manual that is provided with each unit carefully before performing installation work.
- +Consult your local distributor or a qualified technician when installing the unit. Improper installation by an unqualified person may result in water leakage, electric shock, or fire.
- Ensure there is enough space around each unit.

### 1-7. Optional accessories

- Only use accessories recommended by Mitsubishi Electric. Consult your local distributor or a qualified technician when installing them. Improper installation by an unqualified person may result in water leakage, electric leakage, system breakdown, or fire.
- +Some optional accessories may not be compatible with the air conditioning unit to be used or may not suitable for the installation conditions. Check the compatibility when considering any accessories.
- Note that some optional accessories may affect the air conditioner's external form, appearance, weight, operating sound, and other characteristics.

### 1-8. Operation/Maintenance

♦Read the Instruction Book that is provided with each unit carefully prior to use.

Maintenance or cleaning of each unit may be risky and require expertise. Read the Instruction Book to ensure safety.

Consult your local distributor or a qualified technician when special expertise is required such as when the

indoor unit needs to be cleaned.

### 2. Precautions for Indoor unit

### 2-1. Operating environment

- should leak.
- indoor units.

### 2-2. Unit characteristics

- •The temperature using a built-in temperature sensor on the remote controller may differ from the actual room
- temperature due to the effect of the wall temperature.
- on or in the ceiling operate the automatic cooling/heating switchover.
- large such as computer rooms.
- operation noise may increase.
- conditioning load is small.

### 2-3. Unit installation

- +For simultaneous cooling/heating operation type air conditioners (R2, WR2 series), the G-type BC controller the outdoor unit directly, and be sure to use them with GA- and HA-type BC controllers (main).
- be necessary.
- Do not have any branching points on the downstream of the refrigerant pipe header.
- for details.
- the air.
- duct, but need a booster fan to be installed at site. Refer to the chapter "Indoor Unit" for the available range for fresh air intake volume.
- Operating fresh air intake on the indoor unit may increase the sound pressure level.

The refrigerant (R410A) used for air conditioner is non-toxic and nonflammable. However, if the refrigerant leaks, the oxygen level may drop to harmful levels. If the air conditioner is installed in a small room, measures must be taken to prevent the refrigerant concentration from exceeding the safety limit even if the refrigerant

♦If the units operate in the cooling mode at the humidity above 80%, condensation may collect and drip from the

•The return air temperature display on the remote controller may differ from the ones on the other thermometers. The clock on the remote controller may be displayed with a time lag of approximately one minute every month.

•Use a built-in thermostat on the remote controller or a separately-sold thermostat when indoor units installed

The room temperature may rise drastically due to Thermo OFF in the places where the air conditioning load is

•Be sure to use a regular filter. If an irregular filter is installed, the unit may not operate properly, and the

The room temperature may rise over the preset temperature in the environment where the heating air

cannot be connected to the 16HP outdoor unit model or above, and the G- and GA-type BC controllers cannot be connected to the 28HP model or above. The GB- and HB-type BC controllers (sub) cannot be connected to

The insulation for low pressure pipe between the BC controller and outdoor unit shall be at least 20 mm thick. If the unit is installed on the top floor or in a high-temperature, high-humidity environment, thicker insulation may

•When a field-supplied external thermistor is installed or when a device for the demand control is used. abnormal stop of the unit or damage of the electromagnetic contactor may occur. Consult your local distributor

When indoor units operate a fresh air intake, install a filter in the duct (field-supplied) to remove the dust from

The 4-way or 2-way Airflow Ceiling Cassette Type units that have an outside air inlet can be connected to the

### 3. Precautions for Fresh air intake type indoor unit

### 3-1. Usage

This unit mainly handles the outside air load, and is not designed to maintain the room temperature. Install other air conditioners for handling the air conditioning load in the room.

### 3-2. Unit characteristics

- +This unit cannot perform the drying operation. The unit will continue the fan operation and blow fresh air (air that is not air-conditioned) when the Heating Thermo-OFF or Cooling Thermo-OFF mode is selected.
- The fan may stop tentatively when the unit is connected to the simultaneous cooling/heating operation type outdoor unit (R2, WR2 series) or during the defrost cycle.
- This unit switches the Thermo ON or OFF depending on the room temperature. The outside air is directly supplied into the room during Thermo OFF. Take caution of the cold supply air due to low outside air temperature and of condensation in the room due to high humidity of the outside air.
- Outside air temperature ranges for the operation must be as follows:
- Cooling: 21°CD.B./15.5°CW.B. ~ 43°CD.B./35°CW.B.
- Heating: -10°CD.B.~ 20°CD.B
- The unit is forced to operate Thermo OFF (fan operation) when the outside air temperature is as follows.
- Cooling: 21°CD.B or below; Heating: 20°CD.B or above
- +Either a remote controller (sold separately) or a remote sensor (sold separately) must be installed to monitor the room temperature.
- +If only this unit is used as an indoor unit, condensation may form at the supply air grill while the unit is operated in the cooling mode. This unit cannot operate dehumidifying.
- ♦Use the unit in the way that the airflow rate will not exceed the 110% of the rated airflow.

### 4. Precautions for Outdoor unit/Heat source unit

### 4-1. Installation environment

- +Outdoor unit with salt-resistant specification is recommended to use in a place where it is subject to salt air.
- (JRA9002).
- air may occur.
- Provide proper drainage around the unit base, because the condensation may collect and drip from the outdoor units.
- Provide water-proof protection to the floor when installing the units on the rooftop.
- comes with the snow guard and take caution for the installation to avoid the risk of corrosion.
- applicable to the PUMY series)
- Install the snow guard so that the outlet/inlet faces away from the direction of the wind.
- guard. Install a roof that is strong enough to withstand snow loads in a place where snow accumulates.
- Provide proper protection around the outdoor units in places such as schools to avoid the risk of injury. atmosphere.
- that the oxygen from being dissolved in the water should be 1 mg/L or less. Install a strainer (50 mesh or more recommended) on the water pipe inlet on the heat source unit.
- Interlock the heat source unit and water circuit pump. where the ambient temperature can be 0°C or below.

  - •Before a long period of non use, be sure to purge the water out of the unit.

### 4-2. Circulating water

- source unit regularly.
- atmosphere.

When a tank is installed to ensure that the circuit has enough water, minimize the contact with outside air so that the oxygen from being dissolved in the water should be 1 mg/L or less.

### 4-3. Unit characteristics

When the Thermo ON and OFF is frequently repeated on the indoor unit, the operation status of outdoor units may become unstable.

### 4-4. Relevant equipment

Provide grounding in accordance with the local regulations.

•Even when the unit with salt-resistant specification is used, it is not completely protected against corrosion. Be sure to follow the directions or precautions described in Instructions Book and Installation Manual for installation and maintenance. The salt-resistant specification is referred to the guidelines published by JRAIA

Install the unit in a place where the flow of discharge air is not obstructed. If not, the short-cycling of discharge

In a region where snowfall is expected, install the unit so that the outlet faces away from the direction of the wind, and install a snow quard to protect the unit from snow. Install the unit on a base approximately 50 cm higher than the expected snowfall. Close the openings for pipes and wiring, because the ingress of water and small animals may cause equipment damage. If SUS snow guard is used, refer to the Installation Manual that

When the unit is expected to operate continuously for a long period of time at outside air temperatures of below 0°C, take appropriate measures, such as the use of a unit base heater, to prevent icing on the unit base. (Not

When the snow accumulates approximately 50 cm or more on the snow guard, remove the snow from the

A cooling tower and heat source water circuit should be a closed circuit that water is not exposed to the

When a tank is installed to ensure that the circuit has enough water, minimize the contact with outside air so

•Note the followings to prevent the freeze bursting of pipe when the heat source unit is installed in a place

•Keep the water circulating to prevent it from freezing when the ambient temperature is 0°C or below.

Follow the guidelines published by JRAIA (JRA-GL02-1994) to check the water guality of the water in the heat

A cooling tower and heat source water circuit should be a closed circuit that water is not exposed to the

### 5. Precautions for Control-related items

### 5-1. Product specification

- +To introduce the MELANS system, a consultation with us is required in advance. Especially to introduce the electricity charge apportioning function or energy-save function, further detailed consultation is required. Consult your local distributor for details.
- +Billing calculation for AG-150A, GB-50ADA, TG-2000A, or the billing calculation unit is unique and based on our original method. (Backup operation is included.) It is not based on the metering method, and do not use it for official business purposes. It is not the method that the amount of electric power consumption (input) by air conditioner is calculated. Note that the electric power consumption by air conditioner is apportioned by using the ratio corresponding to the operation status (output) for each air conditioner (indoor unit) in this method.
- In the apportioned billing function for AG-150A and GB-50ADA, use separate watthour meters for A-control units, K-control units, and packaged air conditioner for City Multi air conditioners. It is recommended to use an individual watthour meter for the large-capacity indoor unit (with two or more addresses).
- When using the peak cut function on the AG-150A or GB-50ADA, note that the control is performed once every minute and it takes time to obtain the effect of the control. Take appropriate measures such as lowering the criterion value. Power consumption may exceed the limits if AG-150A or GB-50ADA malfunctions or stops. Provide a back-up remedy as necessary.
- The controllers cannot operate while the indoor unit is OFF. (No error)
- Turn ON the power to the indoor unit when operating the controllers.
- When using the interlocked control function on the AG-150A, GB-50ADA, PAC-YG66DCA, or PAC-YG63MCA, do not use it for the control for the fire prevention or security. (This function should never be used in the way that would put people's lives at risk.) Provide any methods or circuit that allow ON/OFF operation using an external switch in case of failure.

### 5-2. Installation environment

- The surge protection for the transmission line may be required in areas where lightning strikes frequently occur. A receiver for a wireless remote controller may not work properly due to the effect of general lighting. Leave a space of at least 1 m between the general lighting and receiver.
- When the Auto-elevating panel is used and the operation is made by using a wired remote controller, install the wired remote controller to the place where all air conditioners controlled (at least the bottom part of them) can be seen from the wired remote controller. If not, the descending panel may cause damage or injury, and be sure to use a wireless remote controller designed for use with elevating panel (sold separately).
- Install the wired remote controller (switch box) to the place where the following conditions are met. Where installation surface is flat
  - •Where the remote controller can detect an accurate room temperature
  - The temperature sensors that detect a room temperature are installed both on the remote controller and indoor unit. When a room temperature is detected using the sensor on the remote controller, the main remote controller is used to detect a room temperature. In this case, follow the instructions below.
    - Install the controller in a place where it is not subject to the heat source. (If the remote controller faces direct sunlight or supply air flow direction, the remote controller cannot detect an accurate room temperature.)
    - Install the controller in a place where an average room temperature can be detected.
    - Install the controller in a place where no other wires are present around the temperature sensor. (If other wires are present, the remote controller cannot detect an accurate room temperature.)
- To prevent unauthorized access, always use a security device such as a VPN router when connecting AG-150A, GB-50ADA, or TG-2000A to the Internet.

# **Maintenance equipment**

### Maintenance cycle [Note that maintenance cycle does not mean guarantee period.]

The following tables are applicable when using equipment under the conditions below. • Normal use without frequent START/STOPs (The number of START/STOPs is assumed to be less than 6 times

- per hour in normal use.)
- Operating hours are assumed to be 10 hours per day/2500 hours per year.

If the following conditions are met, the equipment may not be used, or the "maintenance cycle" and "replacement intervals" may be shortened.

- When equipment is used in an environment where the power supply fluctuations (the distortion of voltage, frequency, and waveform) are large (Only within the allowable range)
- When equipment is used in an environment where the unit may receive vibration or mechanical shock
- sulfide, and oil mist are present
- When equipment starts/stops frequently and operates for a long time (24-hour air conditioning operation)

Table 1. Maintenance cycle

| Major components                   | Checking cycle | Maintenance cycle | Major components                          | Checking cycle | Maintenance cycle |
|------------------------------------|----------------|-------------------|---|----------------|-------------------|
| Compressor                         |                | 20,000 hours      | Expansion valve                           |                | 20,000 hours      |
| Motor<br>(Fan, Louver, drain pump) |                | 20,000 hours      | Valve<br>(solenoid valve, four-way valve) | 1 year         | 20,000 hours      |
|                                    | 1 year         | 15,000 hours      | Sensor<br>(thermistor, presser sensor)    |                | 5 years           |
| Electric board                     |                | 25,000 hours      | Drain pan                                 |                | 8 years           |
| Heat exchanger                     |                | 5 years           |   |                |                   |

Note1 This table shows major components. Refer to the maintenance contract for details. Note2 This maintenance cycle shows a period in which products are expected to require no maintenance. Use this cycle for planning maintenance (budgeting the maintenance expense etc.) Checking/ Maintenance cycle may be shorter than the one on this table depending on the contents of maintenance check contract

• Sudden unpredictable accident may occur even if check-up is performed.

### Replacement cycle of consumable components [Note that replacement cycle does not mean guarantee period.]

Table 2. Replacement cycle

| Major components        | Checking cycle | Replacement cycle |  |  |
|-------------------------|----------------|-------------------|--|--|
| Long-life filter        |                | 5 years           |  |  |
| High-performance filter |                | 1 year            |  |  |
| Fan belt                | 1.000          | 5,000 hours       |  |  |
| Smoothing capacitor     | 1 year         | 10 years          |  |  |
| Fuse                    |                | 10 years          |  |  |
| Crank case heater       |                | 8 years           |  |  |

Note1 This table shows major components. Refer to the maintenance contract for

Note2 This replacement cycle shows a period in which products are expected to require no replacements. Use this cycle for planning maintenance (budgeting expenses for replacing equipments etc.)

• When equipment is used in an environment where the temperature and humidity are high or change dramatically

• When equipment is used in an environment where dust, salt, toxic gases such as sulfur dioxide and hydrogen

### MITSUBISHI ELECTRIC MULTIPLE SPLIT TYPE AIR CONDITIONERS R410A Series



# for a greener tomorrow

Eco Changes is the Mitsubishi Electric Group's environmental statement, and expresses the Group's stance on environmental management. Through a wide range of businesses, we are helping contribute to the realization of a sustainable society.



The Air Conditioning & Refrigeration Systems Works acquired ISO 9001 certification under Series 9000 of the International Standard Organization (ISO) based on a review of Quality management for the production of refrigeration and air conditioning equipment.

### ISO Authorization System

The ISO 9000 series is a plant authorization system relating to quality management as stipulated by the ISO. ISO 9001 certifies quality management based on the "design, development, production, installation and auxiliary services" for products built at an authorized plant.





The Air Conditioning & Refrigeration Systems Works acquired environmental management system standard ISO 14001 certification.

The ISO 14000 series is a set of standards applying to environmental protection set by the International Standard Organization (ISO). Registered on March 10, 1998.

### ▲ Warning

Do not use refrigerant other than the type indicated in the manuals provided with the unit and on the nameplate.

- Doing so may cause the unit or pipes to burst, or result in explosion or fire during use, during repair, or at the time of disposal of the unit.
- It may also be in violation of applicable laws.
- MITSUBISHI ELECTRIC CORPORATION cannot be held responsible for malfunctions or accidents resulting from the use of the wrong type of refrigerant.

# MITSUBISHI ELECTRIC CORPORATION