



# **AIRSTAGE™ J-II**

Variable Refrigerant Flow System

## 1. GENERAL INFORMATION

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## 1. GENERAL INFORMATION

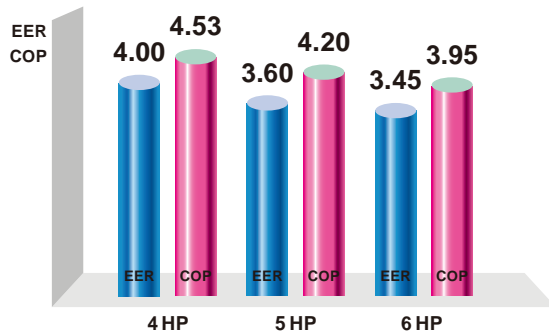
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# 1. FEATURES OF SYSTEM

## 1-1. HIGH ENERGY SAVING

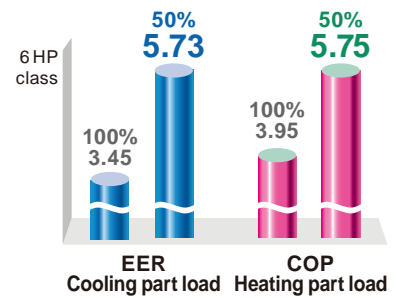
### ■ HIGH EER / COP

Corresponding to the system of energy saving incentives.



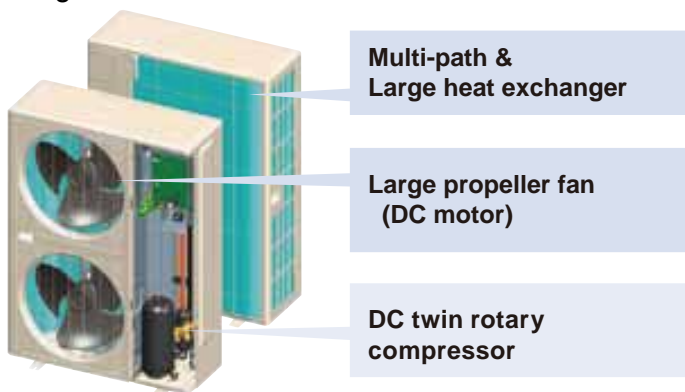
### ■ HIGH SEASONAL EFFICIENCY

Our advanced high-efficiency technology achieves high performance within the actual usage performance range (50% load).



### ■ ADVANCED HIGH EFFICIENCY TECHNOLOGY

- High efficiency is realized by adopting large heat exchanger, large propeller fan, and DC twin rotary compressor.
- Significantly reduced noise by optimized airflow structure design of outdoor unit.
- Reduce the airflow loss by optimized layout design.
- Long piping length is realized by adopting pressure sensor, sub cool heat exchanger, and large accumulator.



### ■ VARIOUS ENERGY SAVING FUNCTION

#### ● Room temperature set point limitation

The minimum and maximum temperature range can be set.

#### ● Capacity save operation

The power consumption at peak is cut down.

#### ● Auto Off function

This prevents waste of energy.

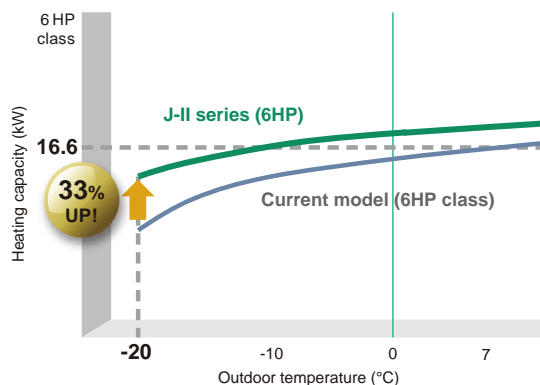
#### ● Economy operation

The temperature setting is offset automatically over a certain period of time.

## 1-2. MORE COMFORT

### POWERFUL HEATING

Heating capacity is improved at low outdoor temperature by our advanced technology.



### COMFORT CONTROL

#### Low noise mode

Outdoor unit can be switched to silent mode, depending on the installation environment.

#### Easy auto changeover setting

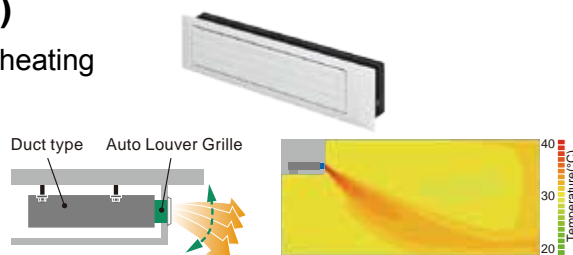
Switching to cooling and heating mode by specific remote controller in the main room etc.

#### Non-stop oil recovery operation

The product continues to operate without stopping the cooling or heating operation during oil recovery modes.

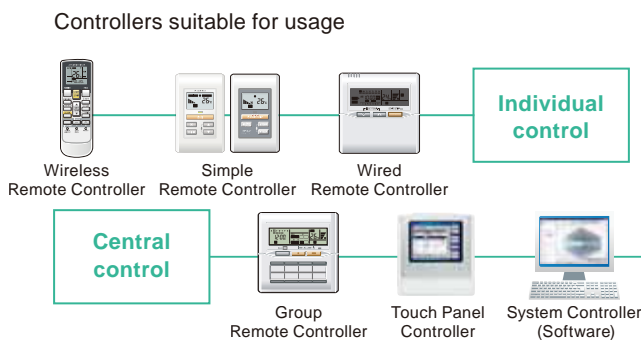
#### Auto louver grill (Option for Slim Duct)

Auto louver grille provides comfort and efficient heating with louver controlled ductable outlet.



## 1-3. MORE CONVENIENCE

### VARIOUS CONTROL SYSTEM






Automatic display of number of connected indoor unit



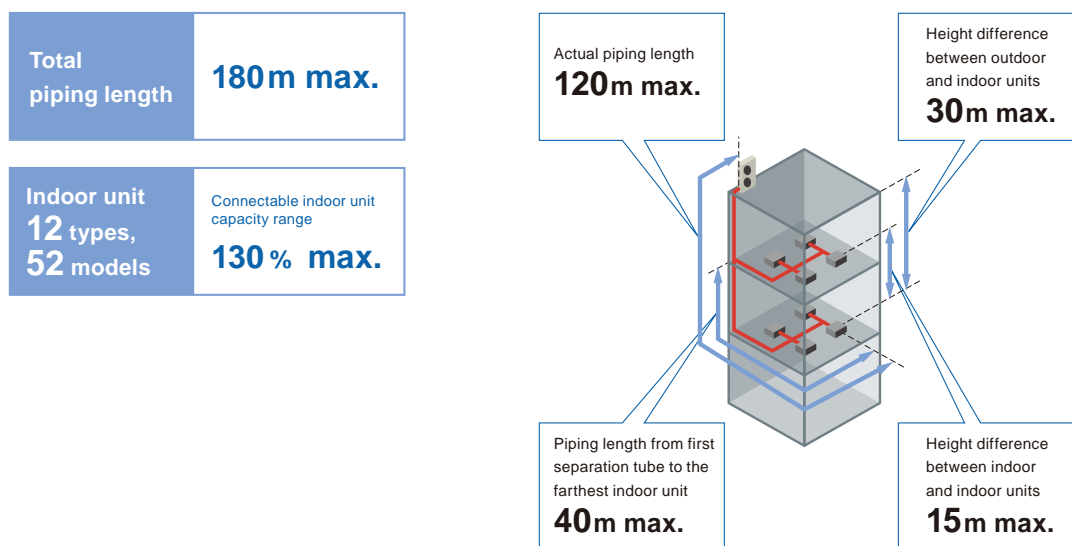
# 1-4. DESIGN FLEXIBILITY

## ■ HIGH CAPACITY CONNECTION

Class	Number of connectable indoor unit range	Connectable indoor unit capacity range
4HP	 <b>2to6</b> units	<b>50 to 130%</b>
5HP	 <b>2to8</b> units	
6HP	 <b>2to9</b> units	

## ■ LONG PIPING LENGTH

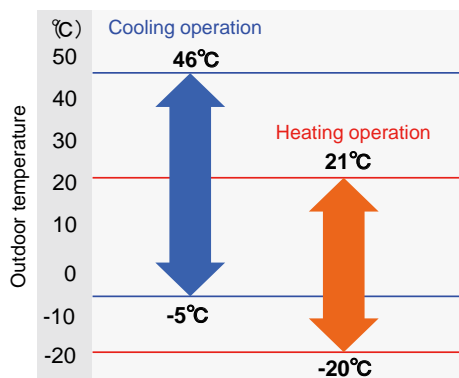
Our special refrigerant control technology allows us to achieve a total refrigerant piping length of 180 m. This opens up new possibilities in system design.



## ■ WIDE OPERATING RANGE

Cooling : -5°C to 46°C

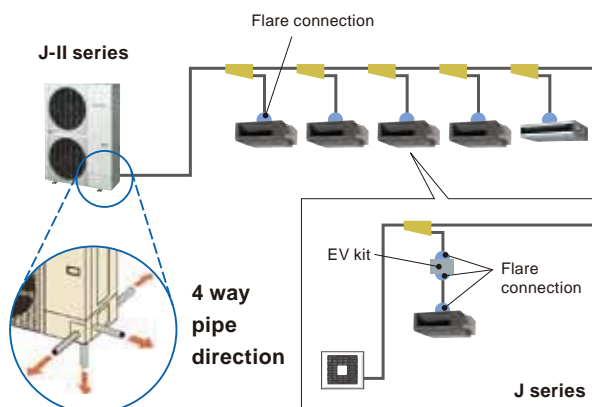
Heating : -20°C to 21°C



## 1-5. EASY INSTALLATION

### ■ FLEXIBLE INSTALLATION

Improvement of the reliability by decreasing the flare connection.



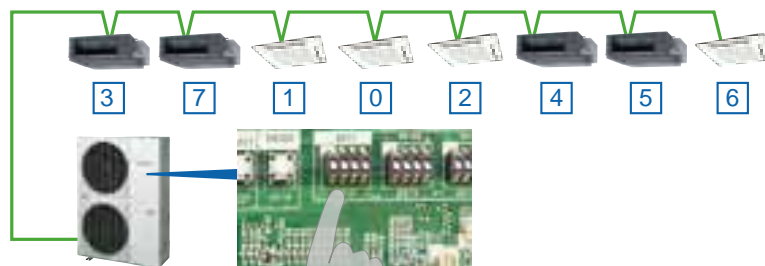
### ■ SIMPLIFIED WIRING

#### ● Transmission cable (Non-polar 2 wires) and individual electricity supply to the indoor and outdoor units

This reduces installation mistakes and improves the layout control between the indoor units and outdoor units.

#### ● Automatic address setting function

The address of each indoor unit can be automatically set by button switch of outdoor unit.

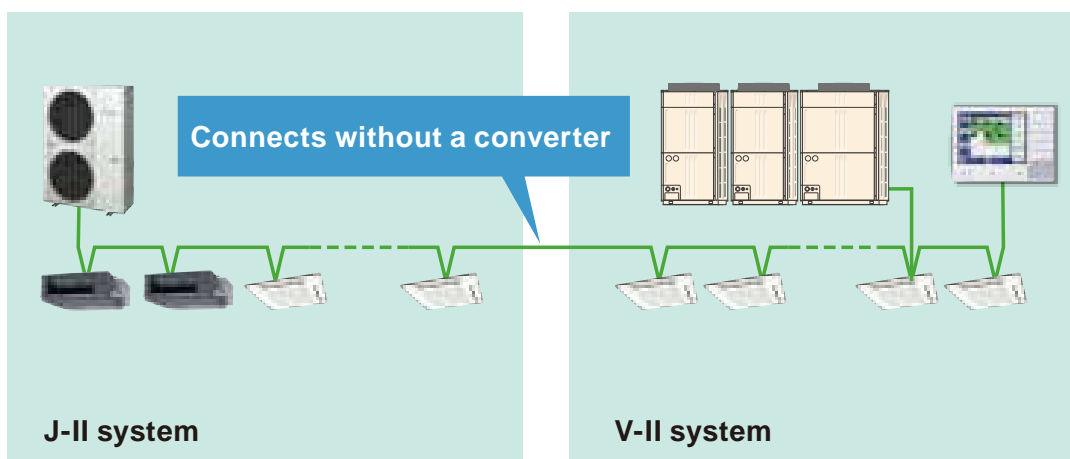


#### ● Indoor unit connection check function

Possible to confirm whether wiring connection and address setting are correct by this function for a short time.

#### ● Easy to connect with V-II communication system

It is possible to connect directly with the transmission cable of the V-II system without convertor.



## 1-6. EASY FOR MAINTENANCE

### ■ EASY TO READ 7-SEGMENT LED

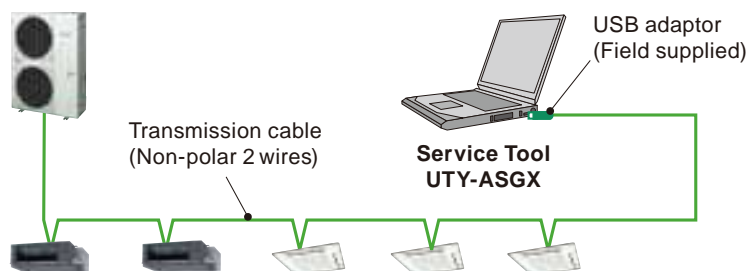
Confirm detail operational and trouble status without using specific equipment.



7-segment LED

### ■ CONNECTION TO SERVICE TOOL

- Detail operation status and recent error history can be checked and analyzed by using Service Tool.
- Last 5 min. operation memory can be also recorded.




## 2. MODEL LINE UP

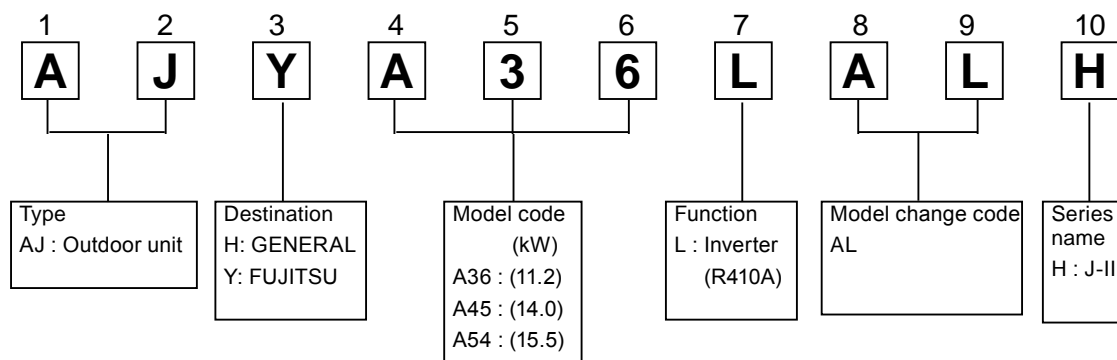
### 2-1. OUTDOOR UNIT

- Line up from 4HP to 6HP in 1HP increments.

#### ■ LINE UP (SINGLE)

HP	Capacity (kW)	Model name	Chassis	Maximum connectable indoor unit
4	11.2	AJ*A36LALH		6
5	14.0	AJ*A45LALH		8
6	15.5	AJ*A54LALH		9

#### ■ MODEL DESIGNATION










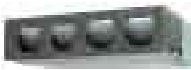



## 2-2. INDOOR UNIT

### ■ LINE UP (1/2)

Various combinations of types and capacity 12 types 52 models, ranging from 2.2kW to 14.0kW.

Capacity		Compact Cassette	Cassette	Compact Duct	Slim Duct	Low Static Pressure Duct	Duct
kW	Model code						
2.2	07	●		●	●		
2.8	09	●		●	●		
3.6	12	●		●	●		
4.5	14	●		●	●		
5.6	18	●	●	●	●		
7.1	24	●	●		●	●	●
9.0	30		●			●	●
11.2	36		●			●	●
12.5	45		●			●	●
14.0	54		●				




Compact Cassette		Cassette		Compact Duct	
AUXB07LALH		AUXD18LALH		ARXB07LALH	
AUXB09LALH		AUXD24LALH		ARXB09LALH	
AUXB12LALH		AUXA30LALH		ARXB12LALH	
AUXB14LALH		AUXA36LALH		ARXB14LALH	
AUXB18LALH		AUXA45LALH		ARXB18LALH	
AUXB24LALH		AUXA54LALH			





Slim Duct		Low Static Pressure Duct		Duct	
ARXD07LATH		ARXB24LATH		ARXA24LATH	
ARXD09LATH		ARXB30LATH		ARXA30LATH	
ARXD12LATH		ARXB36LATH		ARXA36LATH	
ARXD14LATH		ARXB45LATH		ARXA45LATH	
ARXD18LATH					
ARXD24LATH					

## ■ LINE UP (2/2)

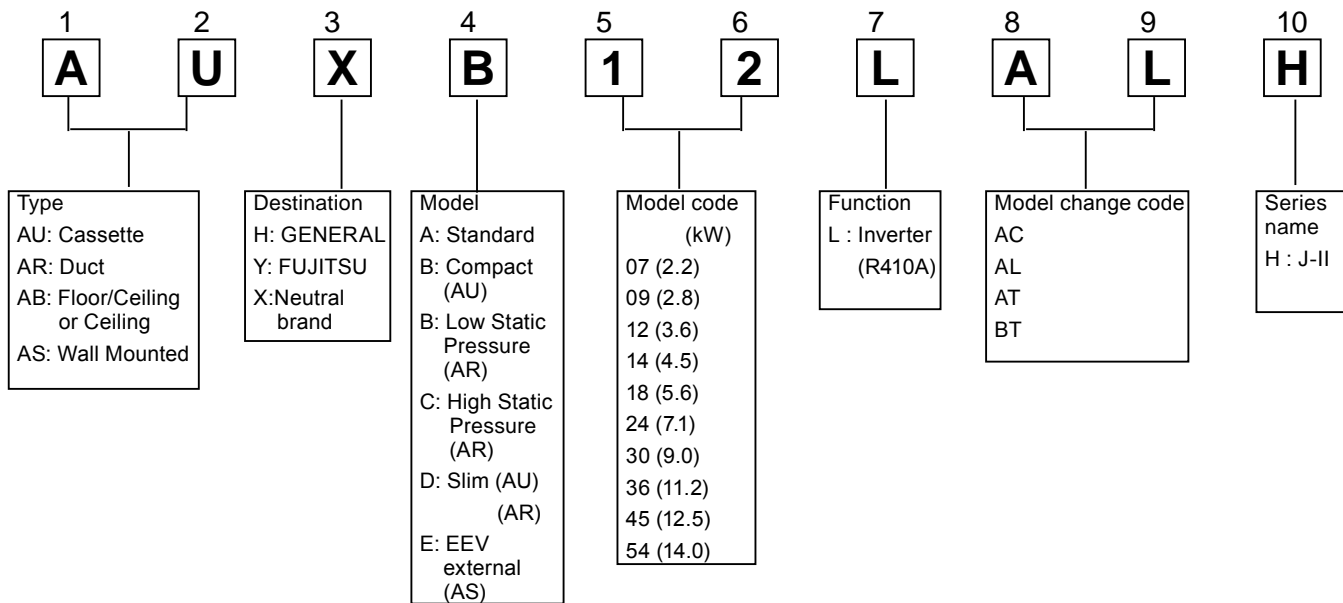
Various combinations of types and capacity 12 types 52 models, ranging from 2.2kW to 14.0kW.

Capacity		High Static Pressure Duct	Floor / Ceiling	Ceiling	Compact Wall Mounted (EEV internal)	Compact Wall Mounted (EEV external)	Wall Mounted
kW	Model code						
2.2	07				●	●	
2.8	09				●	●	
3.6	12		●		●	●	
4.5	14		●		●	●	
5.6	18		●				●
7.1	24		●				●
9.0	30			●			●
11.2	36	●		●			
12.5	45	●		●			
14.0	54			●			

High Static Pressure Duct	Floor / Ceiling	Ceiling
ARXC36LATH ARXC45LATH 	AB*A12LBTH AB*A14LBTH AB*A18LBTH AB*A24LBTH 	AB*A30LBTH AB*A36LBTH AB*A45LBTH AB*A54LBTH 

Compact Wall Mounted (EEV internal)	Compact Wall Mounted (EEV external)	Wall Mounted
AS*A07LACH AS*A09LACH AS*A12LACH AS*A14LACH 	AS*E07LACH AS*E09LACH AS*E12LACH AS*E14LACH  EV kit 	AS*A18LACH AS*A24LACH AS*A30LACH 

## ■ MODEL DESIGNATION







## 2-3. CONTROLLER

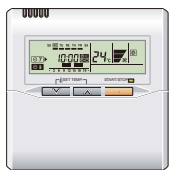



### ■ LINE UP

Type	Model
System Controller	UTY-APGX
Touch Panel Controller	UTY-DTG*
Central Remote Controller	UTY-DCG*
Group Remote Controller	UTY-CGG*
Wired Remote Controller	UTY-RNK*
Simple Remote Controller (With master control)	UTY-RSK*
Simple Remote Controller (Without master control)	UTY-RHK*
Wireless Remote Controller	UTY-LNH*

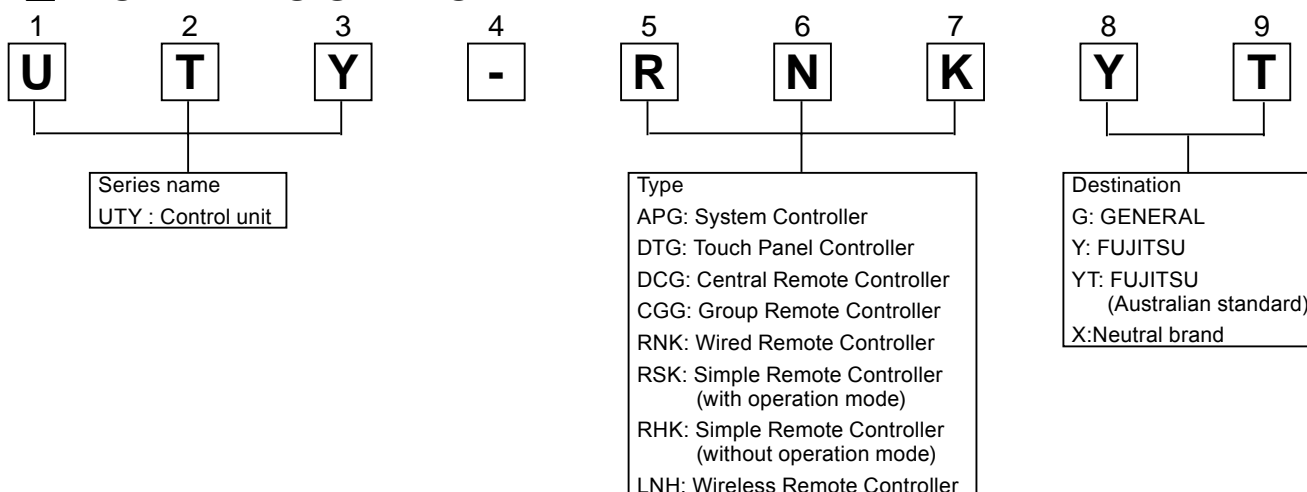
### ■ CENTRAL CONTROL

System Controller	Touch Panel Controller	Central Remote Controller	Group Remote Controller
 <p>UTY-APGX</p>	 <p>UTY-DTG*</p>	 <p>UTY-DCG*</p>	 <p>UTY-CGG*</p> <p>Network Converter (UTY-VGGX) is necessary to connect Group Remote Controller to VRF network system.</p>

### ■ INDIVIDUAL CONTROL


Wired Remote Controller	Simple Remote Controller	Wireless Remote Controller
 <p>UTY-RNK*</p>	<p>(With operation mode) (Without operation mode)</p>  <p>UTY-RSK*</p>  <p>UTY-RHK*</p>	 <p>UTY-LNH*</p>

### ■ MODEL DESIGNATION



## 2-4. ADAPTOR / CONVERTOR / MAINTENANCE

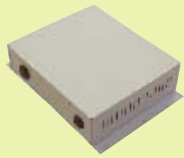
**Network Converter**  
**Model : UTY-VGGX**



Split type systems can be controlled from a central controller via the convertor.


Group remote controller can be controlled up to 96 indoor units via the convertor.

**Network Converter for LONWORKS®**  
**Model : UTY-VLGX**




For connection between VRF network system and a LONWORKS® open network for management of small to medium-sized BMS.

**BACnet® Gateway**  
**Model : UTY-ABGX**



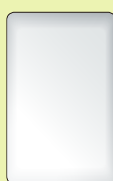
The central control of maximum 1600 indoor units can be realized by connecting the VRF network system to the BACnet®, a global standard of the open network.

**Signal Amplifier**  
**Model : UTY-VSGX**




If the total length of transmission line exceeds 500m, or the number of units exceeds 64, Signal Amplifier will be necessary to use.

**External Switch Controller**  
**Model : UTY-TEKX**




Air conditioner switching can be controlled by connecting other external sensor switches.

**Service Tool**  
**Model : UTY-ASGX**



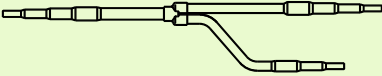
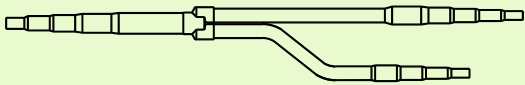
Extensive monitoring and analysis functions for installation and maintenance. Operation status and error history can be grasped promptly and adequately.

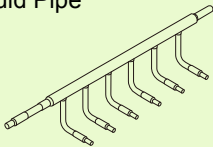
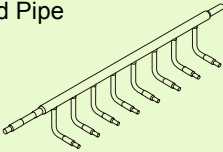
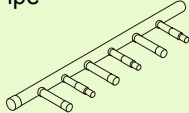
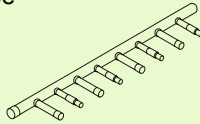
**Web Monitoring Tool**  
**Model : UTY-AMGX**



Trouble free operation at all times by web monitoring system. The operation status of the VRF network system within the building can be monitored in real time over the Internet.

## 2-5. BRANCH KIT

Separation Tube		Model :UTR-BP090X
<p>Liquid Pipe</p> 	<p>Gas Pipe</p> 	

Header	
Model : UTR-H0906L	Model : UTR-H0908L
<p>Liquid Pipe</p> 	<p>Liquid Pipe</p> 
<p>Gas Pipe</p> 	<p>Gas Pipe</p> 

## 2-6. OTHERS (optional parts)

### Flange (Square)

Model : UTD-SF045T

For Low Static Pressure Duct / Duct type  
205 x 1,063 ; L=40 (mm)



### Flange (Round)

Model : UTD-RF204

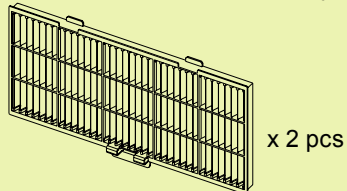
For Low Static Pressure Duct / Duct type  
ø195 (ø205) ; L=85 (mm)



### Long-life Filter

Model : UTD-LF25NA

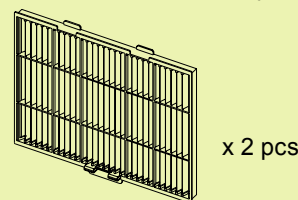
For Low Static Pressure Duct / Duct type



### Long-life Filter

Model : UTD-LF60KA

For High Static Pressure Duct type



### Drain Pump Unit

Models : UTZ-PX1BBA \*1  
UTZ-PX1NBA \*2



\*1 For Compact Duct type  
\*2 For Low Static Pressure Duct type / Duct type

### Drain Pump Unit

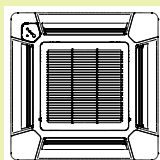
Model : UTR-DPB24T



For Ceiling type

### Grille Kit

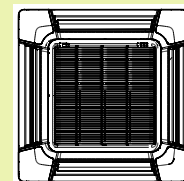
Models : UTG-UFYC-W  
UTG-UFGC-W



For Compact Cassette type

### Grille Kit

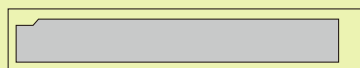
Models : UTG-UGYA-W  
UTG-UGGA-W



For Cassette type

### Air outlet shutter plate

Models : UTR-YDZB



For Compact Cassette type

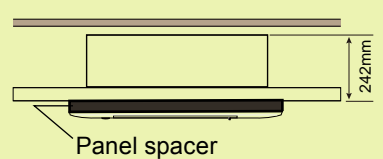
### Air outlet shutter plate

Models : UTR-YDZC



For Cassette type

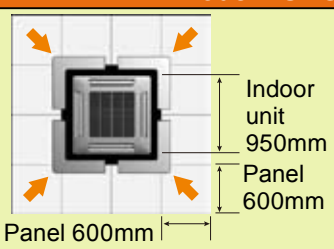
**Panel spacer** Model : UTG-BGYA-W



Panel spacer


242mm

**Wide panel** Model : UTG-AGYA-W




Indoor unit 950mm  
Panel 600mm  
Panel 600mm

**IR Receiver Unit** Models: UTB-YWB, UTB-TWB \*1  
Models: UTB-YWC, UTB-TWC \*2




\*1: For all Duct type (Except for Slim Duct)  
\*2: For all Duct type

**IR Receiver Unit** Models : UTY-LRHYB1  
UTY-LRHGB1




For Cassette type

**Remote Sensor Unit** Model : UTD-RS100



Thermo-sensor for sensing the temperature of arbitrary place in the room

**EV Kit** Models : UTR-EV09XB  
UTR-EV14XB



For Compact Wall Mounted type (EEV external type)

**Fresh air intake kit** Model : UTZ-VXAA



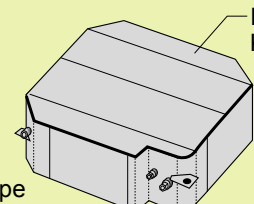
For Compact Cassette type

**Fresh air intake kit** Model : UTZ-VXGA



For Cassette type


**Insulation Kit for High Humidity** Models : UTZ-KXGA \*1  
UTZ-KXGB \*2  
UTZ-KXGC \*3



Insulation Kit

\*1 For Cassette type  
\*2 For Slim Cassette type  
\*3 For Compact Cassette type

**Auto louver grille kit** Models : UTD-GXSA-W \*1  
UTD-GXSB-W \*2  
UTD-GXSC-W \*3



\*1 For Slim Duct (07-14 models)  
\*2 For Slim Duct (18 model)  
\*3 For Slim Duct (24 model)

### 3. REVISION CODE

#### ■ ABOUT REVISION CODE

The following functions are different according to Revision code.

		Revision code		Remarks
		None or A	B	
Indoor unit	Forced stop function	×*1	○	
	Energy saving software UTY-PEGX	×	○	
	Setting of Auto louver grille kit (option)	×*2	○	For Slim duct type only

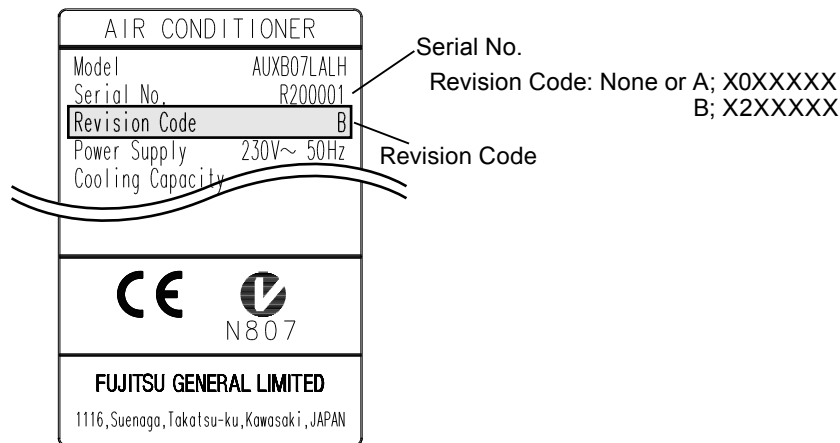
\*1: ARXD07, 09, 12, 14, 18, 24LATH (Slim Duct), AB\*A12, 14, 18, 24LBTH (Floor/Ceiling), AB\*A30, 36, 45, 54LBTH (Ceiling), AS\*A18, 24, 30LACH (Wall Mounted) are available regardless of revision code.

\*2: Auto louver grille kit doesn't operate correctly when setting it to indoor unit other than Revision code B.

#### ■ METHOD OF DISTINGUISHING REVISION CODE

##### ● Indoor unit

##### Rating Label



##### Carton Label

