MANUFACTURED FOR: MITSUBISHI ELECTRIC & ELECTRONICS USA

TECHNICAL & SERVICE MANUAL

Series PVFY Vertical Concealed Indoor Unit

Models PVFY-P12E00A, PVFY-P18E00A PVFY-P24E00A, PVFY-P30E00A PVFY-P36E00A, PVFY-P48E00A PVFY-P54E00A



CONTENTS

| SAFETY PRECAUTIONS ······1 |
|--------------------------------------|
| 1. FEATURES3 |
| 2. PART NAMES AND FUNCTIONS4 |
| 3. SPECIFICATION6 |
| 4. OUTLINES AND DIMENSIONS8 |
| 5. WIRING DIAGRAM ······11 |
| 6. REFRIGERANT SYSTEM DIAGRAM·····12 |
| 7. TROUBLESHOOTING13 |



SAFETY PRECAUTIONS

- 1. Before installation and electric work
- s Before installing the unit, make sure you read all the "Safety precautions".
- s The "Safety precautions" provide very important points regarding safety. Make sure you follow them.
- s This equipment may not be applicable to EN61000-3-2: 1995 and EN61000-3-3: 1995.
- s This equipment may have an adverse effect equipment on the same electrical supply system.
- s Please report to or take consent by the supply authority before connection to the system.

Symbols used in the text

A Warning:

Describes precautions that should be observed to prevent danger of injury or death to the user.

[∧] Caution:

Describes precautions that should be observed to prevent damage to the unit.

Symbols used in the illustrations

- \bigcirc : Indicates an action that must be avoided.
- Indicates that important instructions must be followed.
- Indicates a part which must be grounded.
- Indicates that caution should be taken with rotating parts. (This symbol is displayed on the main unit label.) <Color: Yellow>
- : Beware of electric shock (This symbol is displayed on the main unit label.) <Color: Yellow>

Warning:

Carefully read the labels affixed to the main unit.

A Warning:

- Ask the dealer or an authorized technician to install the air conditioner.
 - Improper installation by the user may result in water leakage, electric shock, or fire.
- Install the air unit at a place that can withstand its weight.
 Inadequate strength may cause the unit to fall down, resulting in injuries.
- Use the specified cables for wiring. Make the connections securely so that the outside force of the cable is not applied to the terminals.
- Inadequate connection and fastening may generate heat and cause a fire.
- Prepare for typhoons and other strong winds and earthquakes and install the unit at the specified place.
- Improper installation may cause the unit to topple and result in injury.
- Always use an air cleaner, humidifier, electric heater, and other accessories specified by Mitsubishi Electric.
- Ask an authorized technician to install the accessories. Improper installation by the user may result in water leakage, electric shock, or fire.

Never repair the unit. If the air conditioner must be repaired, consult the dealer.

- If the unit is repaired improperly, water leakage, electric shock, or fire may result.
- Do not touch the heat exchanger fins.
- Improper handling may result in injury.

When handling this product, always wear protective equipment. EG : Gloves, full arm protection namely boiler suit, and safety glasses. - Improper handling may result in injury.

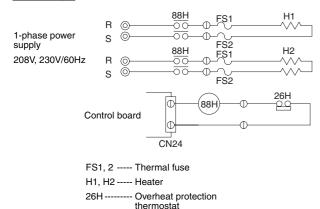
- If refrigerant gas leaks during installation work, ventilate the room.
- If the refrigerant gas comes into contact with a flame, poisonous gases will be released.
- Install the air conditioner according to this Installation Manual.
- If the unit is installed improperly, water leakage, electric shock, or fire may result.
- Have all electric work done by a licensed electrician according to "Electric Facility Engineering Standard" and "Interior Wire Regulations" and the instructions given in this manual and always use a special circuit.
- If the power source capacity is inadequate or electric work is performed improperly, electric shock and fire may result.
- Securely install the cover of control box and the panel.
- If the cover and panel are not installed properly, dust or water may enter the outdoor unit and fire or electric shock may result.
- When installing and moving the air conditioner to another site, do not charge the it with a refrigerant different from the refrigerant (R410A) specified on the unit.
- If a different refrigerant or air is mixed with the original refrigerant, the refrigerant cycle may malfunction and the unit may be damaged.
- 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 should leak.
- Consult the dealer regarding the appropriate measures to prevent the safety limit from being exceeded. Should the refrigerant leak and cause the safety limit to be exceeded, hazards due to lack of oxygen in the room could result.
- When moving and reinstalling the air conditioner, consult the dealer or an authorized technician.
- If the air conditioner is installed improperly, water leakage, electric shock, or fire may result.
- After completing installation work, make sure that refrigerant gas is not leaking.
 - If the refrigerant gas leaks and is exposed to a fan heater, stove, oven, or other heat source, it may generate noxious gases.
- Do not reconstruct or change the settings of the protection devices.
- If the pressure switch, thermal switch, or other protection device is shorted and operated forcibly, or parts other than those specified by Mitsubishi Electric are used, fire or explosion may result.

Warning:

- Note the following when building a heater in the air conditioning system.
- Leave enough space between units for proper ventilation so that the indoor unit temperature does not exceed 40°C when windless.
- Keep the heater clean, and take appropriate measures so that the indoor unit does not suck in the dust particles that accumulate on the heater.
- Use the optional heater cable (PAC-YU25HT) to perform an
- interlocked operation with indoor units.
- Do not build a heater inside the indoor unit.

Recommended circuit

Wiring diagram



88H ------ Electromagnetic contactor

2. Precautions for devices that use R410A refrigerant

▲ Caution:

- Do not use the existing refrigerant piping.
- The old refrigerant and refrigerator oil in the existing piping contains a large amount of chlorine which may cause the refrigerator oil of the new unit to deteriorate.
- Use refrigerant piping made of C1220 (Cu-DHP) phosphorus deoxidized copper as specified in the *JIS H3300 "Copper and copper alloy seamless pipes and tubes". In addition, be sure that the inner and outer surfaces of the pipes are clean and free of hazardous sulphur, oxides, dust/dirt, shaving particles, oils, moisture, or any other contaminant.
 - Contaminants on the inside of the refrigerant piping may cause the refrigerant residual oil to deteriorate.
 - *JIS: Japanese Industrial Standard

Store the piping to be used during installation indoors and keep both ends of the piping sealed until just before brazing. (Store elbows and other joints in a plastic bag.)

- If dust, dirt, or water enters the refrigerant cycle, deterioration of the oil and compressor trouble may result.
- Use ester oil, ether oil or alkylbenzene (small amount) as the refrigerator oil to coat flares and flange connections.
- The refrigerator oil will degrade if it is mixed with a large amount of mineral oil.
- Use liquid refrigerant to fill the system.
- If gas refrigerant is used to seal the system, the composition of the refrigerant in the cylinder will change and performance may drop.
- Do not use a refrigerant other than R410A.

- If another refrigerant (R22, etc.) is used, the chlorine in the refrigerant may cause the refrigerator oil to deteriorate.

- Use a vacuum pump with a reverse flow check valve. - The vacuum pump oil may flow back into the refrigerant cycle and
- cause the refrigerator oil to deteriorate. Do not use the following tools that are used with conventional refrigerants.

(Gauge manifold, charge hose, gas leak detector, reverse flow check valve, refrigerant charge base, vacuum gauge, refrigerant recovery equipment)

- If the conventional refrigerant and refrigerator oil are mixed in the R410A, the refrigerant may deteriorated.
- If water is mixed in the R410A, the refrigerator oil may deteriorate.
 Since R410A does not contain any chlorine, gas leak detectors
- for conventional refrigerants will not react to it.
- Do not use a charging cylinder.
- Using a charging cylinder may cause the refrigerant to deteriorate. Be especially careful when managing the tools.
- If dust, dirt, or water gets in the refrigerant cycle, the refrigerant may deteriorate.

1 FEATURES

Series PVFY Vertical Concealed Indoor Unit

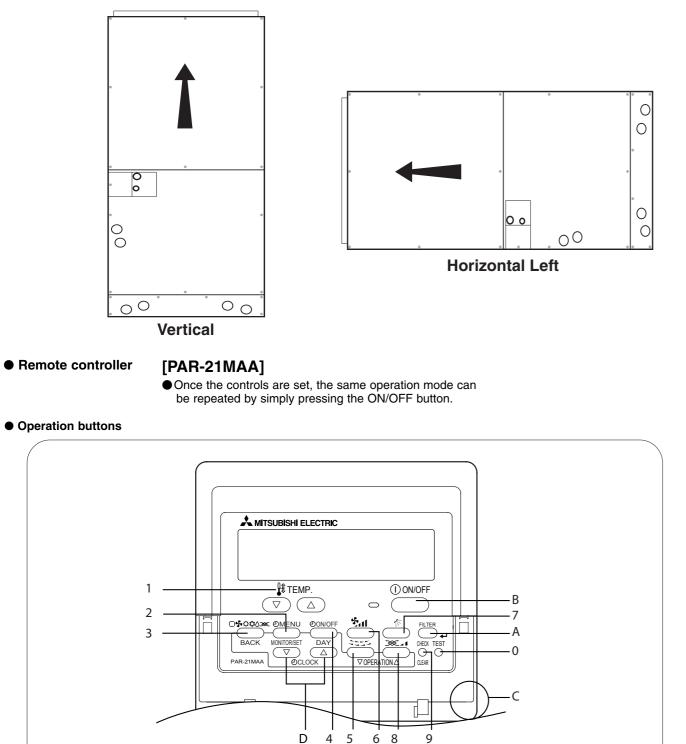


| Models | Cooling capacit | y/Heating capacity |
|--------------|-----------------|--------------------|
| Wodels | kW | Btu / h |
| PVFY-P12E00A | 3.5 / 4.0 | 12,000 / 13,500 |
| PVFY-P18E00A | 5.3 / 5.9 | 18,000 / 20,000 |
| PVFY-P24E00A | 7.0 / 7.9 | 24,000 / 27,000 |
| PVFY-P30E00A | 8.8 / 10.0 | 30,000 / 34,000 |
| PVFY-P36E00A | 10.6 / 11.7 | 36,000 / 40,000 |
| PVFY-P48E00A | 14.1 / 15.8 | 48,000 / 54,000 |
| PVFY-P54E00A | 15.8 / 17.6 | 54,000 / 60,000 |

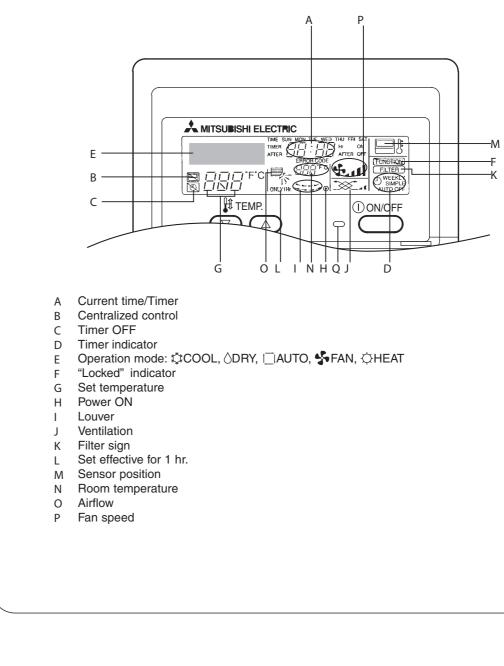
Indoor unit

2 PART NAMES AND FUNCTIONS

• Indoor (Main) Unit



[Display]



5 [Louver] Button

7

8

[Operation] Button

[Ventilation] Button

[Operation] Button

9 [Check/Clear] Button

6 [Fan Speed] Button

• Never place any obstacle around the lower right-hand section of the remote controller. Doing so can result in the erroneous measurement of room temperature.

[Airflow Up/Down] Button

0 [Test run] Button

[🚽] Button

B [ON/OFF] Button

D [Set Time] Button

C Position of built-in room temperature

A [Filter] Button

1 [Set Temperature] Button

[Monitor/Set] Button

2 [Timer Menu] Button

[Return] Button

4 [Timer On/Off] Button

[Set Day] Button

3 [Mode] Button

3-1. PVFY-P-E00A Specifications

| PVFY Specifications | | | | | | | | | |
|---------------------|--------------------------------|------------------|---------------------------|------------------|------------------|---------------------|------------------|-----------------------|-----------------------|
| Model Name | | PVFY- P12E00A | PVFY- P18E00A | PVFY- P24E00A | PVFY- P30E00A | PVFY- P36E00A | PVFY- P48E00A | PVFY- P54E00A | |
| Power Source | | | | | 208/2 | 230V, 1-phase, | 60Hz | | |
| Cooling Capad | city | Btu/h *1 | 12,000 | 18,000 | 24,000 | 30,000 | 36,000 | 48,000 | 54,000 |
| Heating Capad | city | Btu/h *1 | 13,500 | 20,000 | 27,000 | 34,000 | 40,000 | 54,000 | 60,000 |
| Power | Cooling | kW | 0.171/0.171 | 0.280 / 0.280 | 0.258 / 0.258 | 0.379/0.379 | 0.324 / 0.324 | 0.362 / 0.362 | 0.410 / 0.410 |
| Consumption | Heating | kW | 0.171/0.171 | 0.280 / 0.280 | 0.258 / 0.258 | 0.379 / 0.379 | 0.324 / 0.324 | 0.362 / 0.362 | 0.410/0.410 |
| 0 | Cooling | A | 0.69 / 0.61 | 1.48 / 1.31 | 1.48 / 1.31 | 2.38 / 2.11 | 1.93 / 1.71 | 2.27 / 2.01 | 2.83 / 2.51 |
| Current | Heating | A | 0.69 / 0.61 | 1.48 / 1.31 | 1.48 / 1.31 | 2.38 / 2.11 | 1.93 / 1.71 | 2.27 / 2.01 | 2.83 / 2.51 |
| MCA (208 / 23 | 0V) | | 0.86 / 0.76 | 1.85 / 1.64 | 1.85 / 1.64 | 2.97 / 2.64 | 2.41 / 2.14 | 2.84 / 2.51 | 3.53 / 3.14 |
| MOCP | | А | | | | 15 | | | |
| | Height | Inches | | 42-3/4 | | 4 | 8 | 58- | 3/4 |
| Dimensions | Width | Inches | | 17-3/4 | | 2 | 1 | 24- | 1/2 |
| | Depth | Inches | 21 | | 21-3/4 | | | | |
| Net Weight | Unit | Pounds | 88 | 98 | 108 | 115 | 120 | 160 | 168 |
| Heat Exchang | er | | | Cı | oss Fin (Alumir | num Plate Fin a | and Copper Tub | e) | |
| | Type x Qty. | | Forward Curved Blower x 1 | | | | | | |
| | Airflow Rate | 0.30 ESP | 243-320-376 | 385-481-531 | 483-636-705 | 637-800-886 | 784-954-1,057 | 982-1,268- 1,405 | 1,114-1,426- 1,576 |
| Fan | *2 | 0.50 ESP | 202-249-346 | 402-485-520 | 560-632-713 | 725-815-873 | 880-991-1,033 | 1.162-1,303- 1,438 | 1,360-1,497- 1,570 |
| | External Static Pressure | In. WG | | | 0.30 | / 0.50 (Selectable) | | | |
| | Motor Type | | | | H | igh-efficiency D | C | | |
| Air Filter | | | | | Filter ar | nd Rack -field s | upplied | | |
| Refrigerant Pipe | Low Pressure (Brazed) | Inches | 1. | 1/2 5/8 | | | 5/8 | | |
| Dimensions | High Pressure (Brazed) | Inches | 1. | 1/4 | | 3/8 | | | |
| Drain Pipe | Primary | Inches | | | | 3/4 FPT | | | |
| Dimension | Secondary | Inches | | | | 3/4 FPT | | | |

Note: *1 Cooling/Heating capacity indicates the maximum value at operation under the following conditions: Cooling: Indoor: 80°F (27°C) DB/67°F (19°C) WB; Outdoor: 95°F (35°C) DB Heating: Indoor: 70°F (21°C) DB; Outdoor: 47°F (8°C) DB/43°F (6°C) WB *2 Airflow rate / sound pressure levels are at (Low-Mid-High)

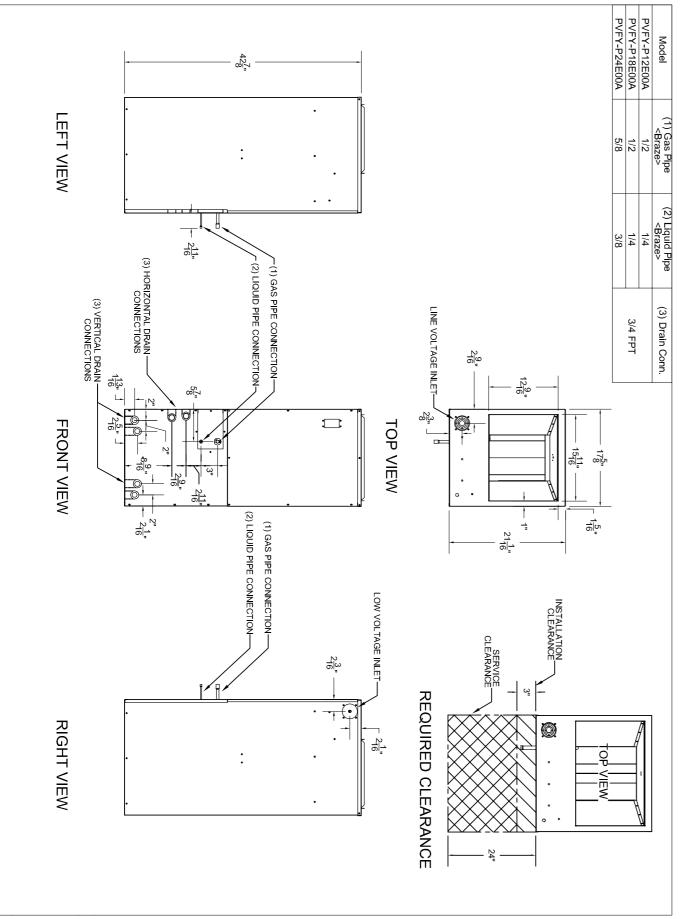
3-2. Electrical Parts Specifications

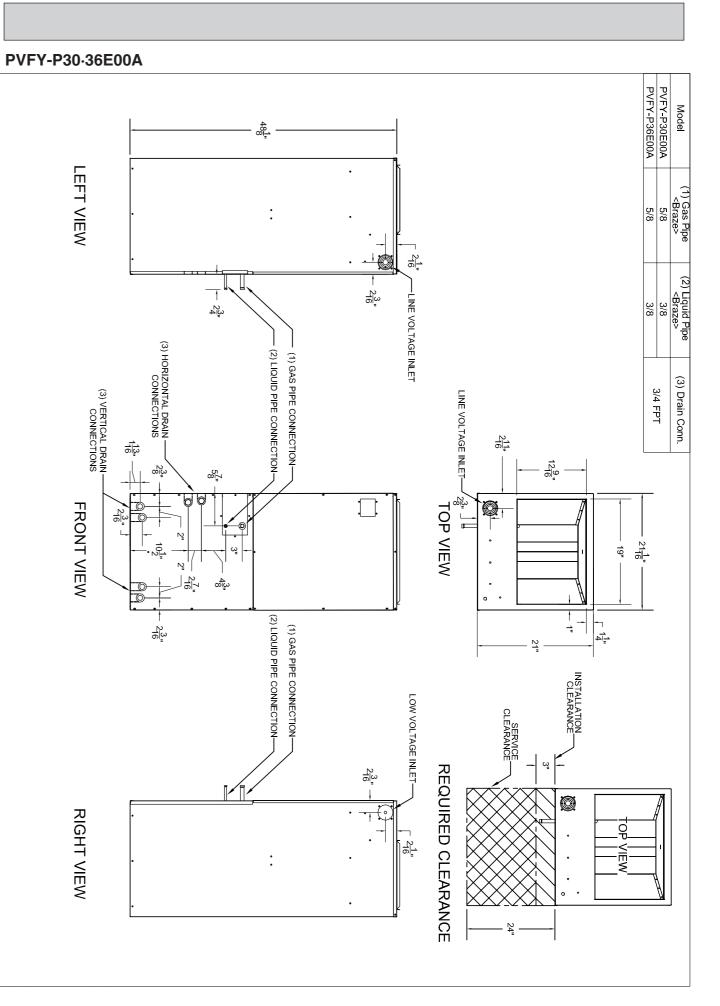
| Model Parts name | Symbol | PVFY- P12E00A | PVFY- P18E00A | PVFY- P24E00A | |
|--|-------------|-------------------|---|-------------------------|---|
| Transformer | T1 | | | (Primary) 24 | (|
| Transformer | T2 | | | (Primary) 20 |) |
| Room temperature thermistor | TH21 | | Resistance | 0°C[32°F]/15k, 30°C[| |
| Liquid pipe thermistor | TH22 | | Resistance | 0°C[32°F]/15k, 30°C[| |
| Gas pipe thermistor | TH23 | | Resistance | 0°C[32°F]/15k, 30°C[| |
| Fuse (Indoor controller board) | FUSE | | | | |
| Fan motor (with Inner- thermostat) | MF1 | 4-pole, 1/3 hp | 4-pole, 1/3 hp | 4-pole, 1/3 hp | |
| Linear expansion valve | LEV | d | C12V Stepping rive port dimen 2000pulse) ED | sion | |
| Power supply terminal bed | TB2 | | | | |
| Trans- mission terminal bed | TB5 TB15 | | | (1 | , |

| | PVFY- P30E00A | PVFY- P36E00A | PVFY- P48E00A | PVFY- P54E00A | | |
|---|--------------------------------------|-------------------|-------------------|-------------------|--|--|
| 0V 60Hz (Secondary) (23.5V 0.9A) | | | | | | |
| 08/230V 60Hz (Secondary) (27V) | | | | | | |
| | 10°C[50°F]/9.6k, 86°F]/4.3k,40°C[| | k,25°C[77°F]/5. | 4k, | | |
| | 10°C[50°F]/9.6k, 86°F]/4.3k,40°C[| | k,25°C[77°F]/5. | 4k, | | |
| | 10°C[50°F]/9.6k, 86°F]/4.3k,40°C[| | k,25°C[77°F]/5. | 4k, | | |
| | 250V 6.3A | L. | | | | |
| | 4-pole, 1/3 hp | 4-pole, 1/2 hp | 4-pole, 3/4 hp | 4-pole, 3/4 hp | | |
| | DC12V | Stepping moto | or drive port dim | ension | | |
| 5.2 (0~2000pulse) EDM-804MD 6.4 (0~2000 pulse) EDM-A0Y | | | | | | |
| | (L1,L2,G) 330V 30A | | | | | |
| | ,2),(M1,M2,S) 33 | 30V 30A | | | | |
| | | | | | | |

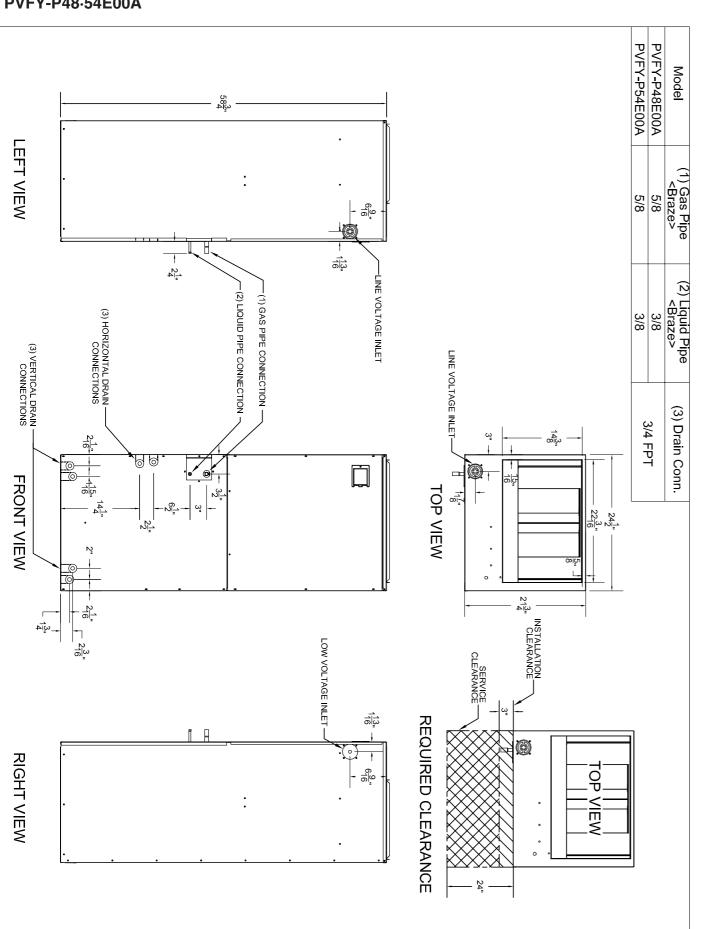
4 OUTLINES AND DIMENSIONS

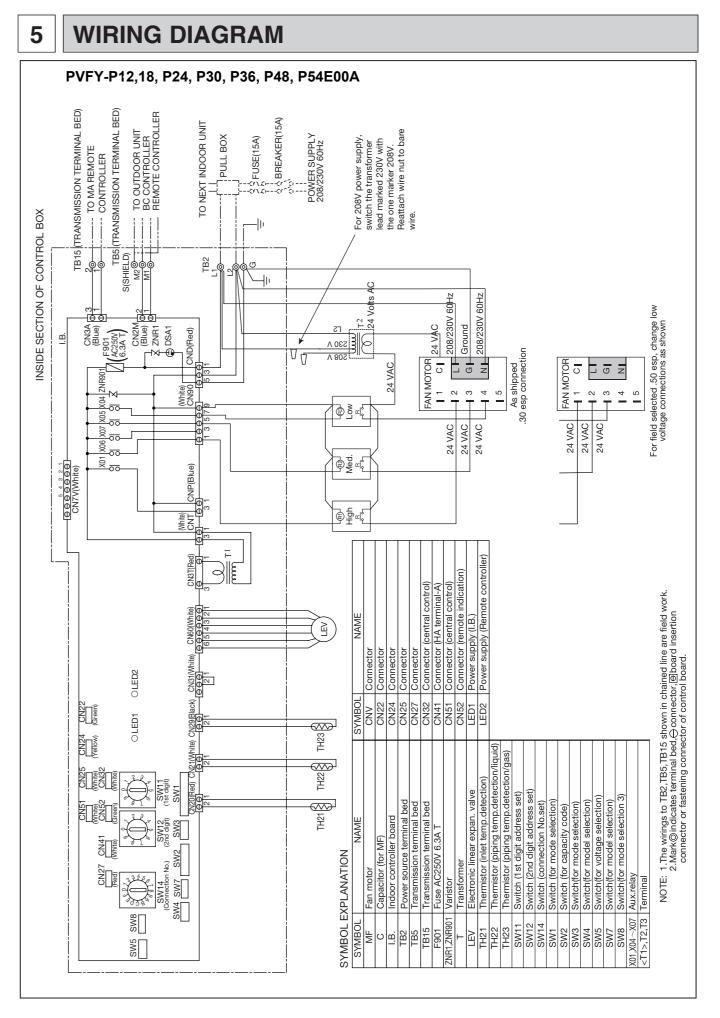
PVFY-P12-18-24E00A



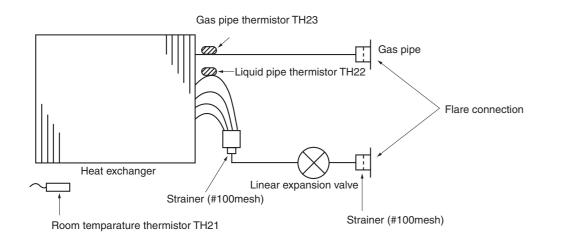








6 REFRIGERANT SYSTEM DIAGRAM



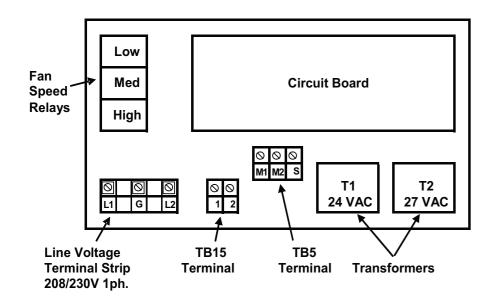
mm <in.>

| - | | |
|-------------|----------|-----------------|
| Item | Capacity | PVFY-P12,18E00A |
| Gas pipe | R410A | ø 12.7 (1/2) |
| Liquid pipe | R410A | Ø 6.35 (1/4) |

mm <in.>

| Item | Capacity | PVFY-P24, 30, 36, 45, 54E00A |
|-------------|----------|------------------------------|
| Gas pipe | R410A | ø 15.88 (5/8) |
| Liquid pipe | R410A | Ø 9.52 (3/8) |

Electrical Component Location



7 TROUBLESHOOTING

7-1. How to check the parts

| Parts name | | | |
|--|--|-----------------------------------|--|
| Room temparature thermistor (TH21) Liquid pipe thermistor | Disconnect the (Sorrounding te | | |
| (TH22) Gas pipe thermistor | Normal | | Abnormal |
| (TH23) | 4.3k ~9.6k | Op | en or short |
| Transformer 24V | Disconnect the | connector an | nd measure t |
| CNT T CN3T | | No | rmal |
| | CNT(1)-(3) | Арр | .45 |
| 2 3 8 2 3 White Blue | CN3T(1)-(3 | i) Apj | p.1 |
| Transformer 27VAC | | | e sure the pr age. See diag |
| For 208V power supply, switch the transformer lead marked 230V with the one | 208 V Orango 230 V White L2 Black | | sure the sup |
| marker 208V. Reattach wire nut to bare wire. | · | | veen 187 and oly. The readi |
| | | | volt power si |
| 27 VAC | 27 Volts AC | vviui | the proper s oximately 27 |
| | | | |
| Fan Relays | For 208V power s switch the transfo marked 230V with marker 208V. Rea wire nut to bare w | the one ttach | 208/230VAC T2 27 Volts AC |
| 200/230 volt supply from circuit board 1 3 5 7 9 common lead High Med. Low CN60 Valve CN60 | switch the transfo marked 230V with marker 208V. Rea | e connector the ext page for a | T2 277 volts AC len measure detail. |
| 200/230 volt supply from circuit board 1 3 5 7 9 common lead High Wed Low 24 VAC protor speeds | bisconnect the Refer to the ne | e connector the ext page for a | en measure detail. |
| 200/230 volt supply from circuit board | switch the transform marked 230V with marker 208V. Real wire nut to bare w | e connector the ext page for a | ten measure detail. (3)-(5) |

Check points

re the resistance using a tester. 50°F~86°F])

| t | | | |
|---|--|--|--|

(Refer to the thermistor)

the resistance using a tester.

Open or short

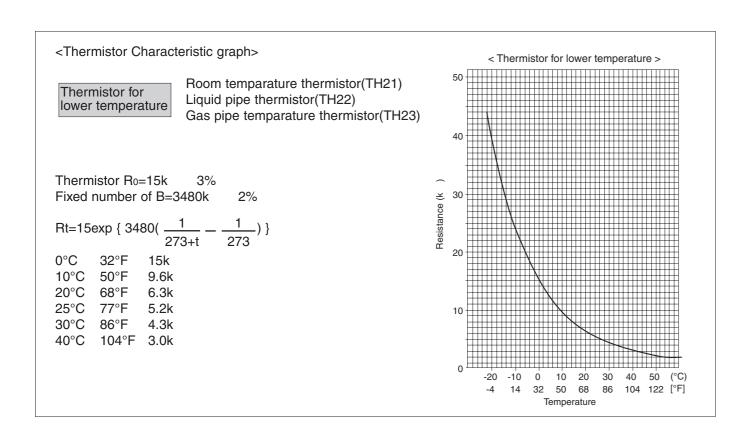
proper transformer lead is connected for the proper supply agram at left.

upply voltage to the transformer. The supply voltage should be nd 229 volts if the transformer is connected to a 208 volt power ding should be between 207 and 253 volts if connected to a supply.

supply voltage, the transformer output voltage should be 27 volts. If no voltage is measured, replace the transformer.

| and low The far energiz 24 V A motor. speed To chea Make s in stand 1. Sele 2. At th selecter is supp 3. If 20 voltage 4. If the closed. 5. To ch voltage 4. If the closed 24 V M | are 3 fan relays. One relay for each high, medium of speed operation. In relays have a 208/240 V AC coil that is red by the circuit board. The relay switches a C circuit, which provides the speed signal for the The relay energized will be determined by which is selected at the controller. ck operation: ure power to the system is on and the unit is not dby mode. ct high, medium or low speed at the controller. e corresponding relay based on the speed d, check the voltage across the relay coil which lied from the circuit board. 8/230 V is measured, go on to step 4. If no e is measured, replace the circuit board. ere is voltage present, the relay contact should be neck the contact. Turn power off. Remove the ires from relay contact. oply voltage and select the fan speed. Check the ity across the contact. If there is no continuity the contact, replace the relay. If there is continu- tes the contact, the relay is OK. Refer to the roubleshooting section. |
|--|--|
| the resista | nce valve using a tester. |

| | | Abnormal |
|----------|-----------------------|---------------|
|) Red | (4)-(6) Blue-Brown | Open or short |
| | | |



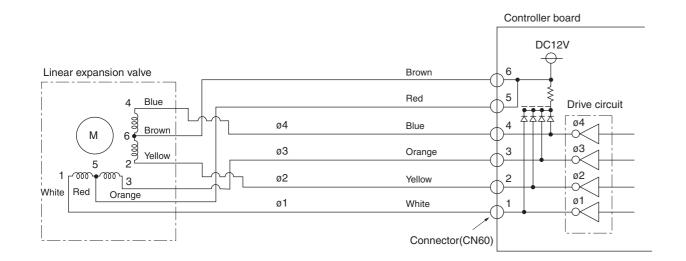
Linear expansion valve

(1) Operation summary of the linear expansion valve.

• Linear expansion valve open/close through stepping motor after receiving the pulse signal from the indoor controller board.

• Valve position can be changed in proportion to the number of pulse signal.

<Connection between the indoor controller board and the linear expasion valve>



<Output pulse signal and the valve operation> Output Output (Phase) 1 2 3 4 ON OFF OFF ON ø1 OFF OFF ON ON ø2 ø**3** OFF ON ON OFF ON OFF OFF ON ø4 ② Linear expansion valve operation Valve position (capacity) Close valve. Open I 2000 pulse Opening a valve all the way A F Pulse number R

③ Trouble shooting

Extra tightning (80~100pulse)

| Symptom | Check points | Countermeasures | |
|---|--|--|--|
| Operation circuit fail- ure of the micro processor. | Disconnect the connector on the controller board, then connect LED for checking. $\bigcirc 6$ $\bigcirc 6$ $\bigcirc 5$ $\bigcirc 4$ $\bigcirc 0$ 1 1 $\square ED$ Pulse signal will be sent out for 10 seconds as soon as the main switch is turn on. If there is LED with lights on or lights off, it means the operation circuit is abnormal. | Exchange the indoor con- troller board at drive circuit failure. | |
| Linear expansion valve mechanism is locked. | Motor will idle and make ticking noise when motor is operated while the linear expansion valve is locked. This ticking sound is the sign of the abnormality. | Exchange the linear expansion vale. | |
| Short or breakage of the motor coil of the linear expansion valve. | Measure the resistance between the each coil (red-white, red-orange, brown-yellow, brown-blue) using a tester. It is normal if the resistance is in the range of $150\Omega \pm 10\%$. | Exchange the linear expansion valve. | |
| Valve doesn 't close completely (thermis- tor leaking). | To check the linear expansion valve, operate the indoor unit in fan mode and at the same time operate other indoor units in cooling mode, then check the pipe temperature cliquid pipe temperature of the indoor unit by the outdoor multi controller board operation monitor. During fan operation, linear expansion valve is closed completely and if there are some leaking, detecting temperature of the thermistor will go lower. If the detected temperature is much lower than the temperature is not closed all the way. It is not necessary to exchange the linear expansion valve. | ation is leaked, exchange the linear expansion valve. | |
| Wrong connection of the connector or contact failure. | Check the color of lead wire and missing terminal of the con- nector. | Disconnect the connector at the controller board, then check the continuity. | |

 $\begin{array}{ll} \mbox{Closing a valve} & : 1 \rightarrow 2 \rightarrow 3 \rightarrow 4 \rightarrow 1 \\ \mbox{Opening a valve} & : 4 \rightarrow 3 \rightarrow 2 \rightarrow 1 \rightarrow 4 \end{array}$

The output pulse shifts in above order.

- \ast 1. When linear expansion valve operation stops, all output phase become OFF.
- 2. At phase interruption or when phase does not shift in order,
- motor does not rotate smoothly and motor will locks and vibrates.

* When the switch is turned on, 2200 pulse closing valve signal will be send till it goes to (A) point in order to define the valve position.

When the valve move smoothly, there is no noise or vibration occurring from the linear expansion valve : however, when the pulse number moves from \bigcirc to A or when the valve is locked, more noise can be heard than normal situation.

* Noise can be detected by placing the ear against the screw driver handle while putting the screw driver to the linear expansion valve.

7-2. Fan Motor Troubleshooting All Models

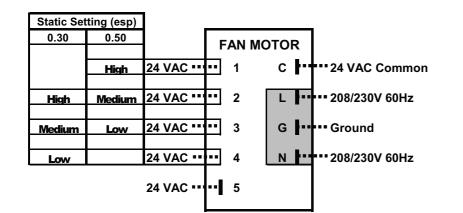
If the motor rocks back and forth on start up, this is normal—do not replace the motor. The motor may surge if operating outside the design static pressure range. Verify that the system design static matches the selected motor static pressure settings.

The system is noisy and does not change speeds based on commands from the remote controller or the indoor unit is going into freeze protection cycle.

Check to make sure the airflow settings are correct for the installation per the indoor unit specifications. First remove the system filter and check that all dampers and diffusers are open. If after removing the filter this corrects the problem, change or clean the filter. Also, check the indoor unit heat exchanger and clean as necessary.

If none of this corrects the problem, check the static pressure of the system. The static pressure should fall within the guidelines given on the airflow charts. If it's outside the parameters given on these charts, correct the airflow problem. Make sure the static pressure setting on the motor matches the system requirements.

If the above checks do not solve the problem, check that the supply voltage applied to the motor is correct. Measure voltage at the (L), (G), (N) connector shown on the diagram below. The motor supply voltage should be + or -10% of the nominal 208/230VAC rating. If the supply voltage is not within this range, correct this before any further troubleshooting.



The motor does not run.

Check for the proper line voltage power supply and ground at the (L), (G), and (N) connections. Correct any voltage issues before proceeding to the next step.

Speed selections on the blower motor are done by 24 volt supply to the motor terminals. The low voltage connections are programmed for the operating characteristics as shown in the chart above.

Turn the indoor unit on and set to any mode that will normally run the fan. (Heat, Cool or Fan) If there is no 24 volt power supply between terminals 2, 3, or 4 and C common, check the wire(s) from the relays located in the control box.

If the line voltage supply is within range and 24 volts is supplied to any of the connector combinations shown in the chart above and the motor does not operate, replace the motor.

7-3. Dip Switch Settings

| Switch | Polo | Function | | Operation by switch | | | | Remarks | |
|------------------------------------|------|--|---|--|---|--|-----------------------------------|------------------------|---|
| Owner | | | | ON | | | OFF | | Hemarks |
| SW1 Mode Selection | 1 | Thermistor <inta detection>positi</inta | | Built-in remote controller | | r Indoo | Indoor unit | | Address board |
| | 2 | Filter clogging detection | | Provided | | Not | Not provided | | <at delivery=""></at> |
| | 3 | Filter life | | 2,500hr | | 100h | 100hr | | ON OFF 1 2 3 4 5 6 7 8 9 10 |
| | 4 | Air intake | | Effective | | Note | Not effective | | |
| | 5 | Remote indication switching | | Thermostat ON signal indication | | on Fan o | Fan output indication | | |
| | 6 | Humidifier control | | Always operated while the heat is ON | | Opera | Operated depends on the condition | | |
| | 7 | Air flow | | Low | | Extra | Extra low | | |
| | 8 | Heat thermostat OFF | | Setting air flow | | Rese | Reset to SW1-7 | | |
| | 9 | Auto reset function | | Effective | | Note | Not effective | | |
| | 10 | Power ON/OFF | | Effective | | Note | Not effective | | |
| SW2 Capacity code setting | 1~6 | MODELS PVFY- P12E00A PVFY- P18E00A PVFY- P24E00A | SW2 OFF 1 2 3 4 5 6 OFF 1 2 3 4 5 6 OFF 1 2 3 4 5 6 | MODELS PVFY- P30E00A PVFY- P36E00A | SW2 OFF 1 2 3 4 5 6 OFF 1 2 3 4 5 6 | MODE PVFY- P48E00 PVFY- P54E00 | A | SW2 OFF 1 2 3 4 5 6 | Indoor controller board Set while the unit is off. <at delivery=""> Set for each capacity.</at> |
| SW3 Function Selection | | MODE PVFY-P24, 3 | | SW3 | MODE PVFY-P12, 48, 54E00A | 18, 36, | OFF | SW3 | Indoor controller board Set while the unit is off. |
| SW4 Unit Selection | 1~4 | PVFY-P12~54E00A ON OFF | | | | | | | Indoor controller board Set while the unit is off. |

Note :The DipSW setting is effective during unit stopping (remote controller OFF) for SW1,2,3 and 4 commonly and the power source is not required to reset.

| Switch | Pole | Operation by switch | Remarks |
|---|---------------|--|---|
| SW11 1st digit address setting SW12 2nd digit address setting Note: 1 | ary switch | SW12 SW11 Address setting should be done when network remote controller (PAR-F25MA) is being used. 10 1 | Address board Address can be set while the unit is stopped. <at delivery=""> SW12 SW11 SW11</at> |
| SW14 Connect ion No setting Note: 1 | Rotary switch | SW14 This is the switch to be used when the indoor unit is operated with R2 series outdoor unit as a set. | Address board <at delivery=""> SW14</at> |

Note 1: The DipSW setting is effective while the unit is not operating (remote controller OFF) for SW 11, 12, 14, and 5.