INSTALLATION MANUAL

For safe and correct use, please read this installation manual thoroughly before installing the air-conditioner unit.

FOR INSTALLER

English

安装说明书

在安装空调器之前，请先阅读此安装说明书，以便安全正确地使用。
1. Safety precautions

Before installing the unit, make sure you read all the “Safety precautions”.
Please report to your supply authority or obtain their consent before connecting this equipment to the power supply system.

Warning: Describes precautions that must be observed to prevent danger of injury or death to the user.
Caution: Describes precautions that must be observed to prevent damage to the unit.

After installation work has been completed, explain the “Safety Precautions,” use, and maintenance of the unit to the customer according to the information in the Operation Manual and perform the test run to ensure normal operation. Both the Installation Manual and Operation Manual must be given to the user for keeping. These manuals must be passed on to subsequent users.

1.1. Before installation (Environment)

Caution:
- Do not use the unit in an unusual environment. If the air conditioner is installed in areas exposed to steam, volatile oil (including machine oil), or sulfuric gas, areas exposed to high salt content such as the seaside, the performance can be significantly reduced and the internal parts can be damaged.
- Do not install the unit where combustible gases may leak, be produced, flow, or accumulate. If combustible gas accumulates around the unit, fire or explosion may result.
- Do not keep food, plants, caged pets, artwork, or precision instruments in the unit. Do not use the unit in an unusual environment. If the air conditioner is installed in a small room, measures must be taken to prevent the refrigerant concentration in the room from exceeding the safety limit in the event of refrigerant leakage. Should the refrigerant leak and cause the concentration limit to be exceeded, hazards due to lack of oxygen in the room may result.
- Be sure to keep the indoor unit and room well-ventilated. When the room humidity exceeds 80% or when the drainpipe is clogged, water may drip from the indoor unit. Do not install the indoor unit where such dripping can cause damage.
- When installing the unit in a hospital or communications office, be prepared for noise and electronic interference. Inverters, home appliances, high-frequency medical equipment, and radio communications equipment can cause the air conditioner to malfunction or breakdown. The air conditioner may also affect medical equipment, disturbing medical care, and communications equipment, harming the screen display quality.

Warning:
- Be extremely careful when transporting the units. Two or more persons are needed to handle the unit, as it weighs 20 kg or more. Do not grasp the packaging bands. Wear protective gloves as you can injure your hands on the fins or other parts.
- Be sure to safely dispose of the packaging materials. Packaging materials, such as nails and other metal or wooden parts may cause stabs or other injuries.

1.2. Before installation or relocation

Caution:
- Be extremely careful when transporting the units. Two or more persons are needed to handle the unit, as it weighs 20 kg or more. Do not grasp the packaging bands. Wear protective gloves as you can injure your hands on the fins or other parts.
- Be extremely careful when transporting the units. Two or more persons are needed to handle the unit, as it weighs 20 kg or more. Do not grasp the packaging bands. Wear protective gloves as you can injure your hands on the fins or other parts.

Warning:
- Be sure toョn the main power switch more than 12 hours before starting operation. Starting operation just after turning on the power switch can severely damage the internal parts.
- Do not operate the air conditioner without the air filter set in place. If the air filter is not installed, dust may accumulate and breakdown may result.
- Do not touch any switch with wet hands. Electric shock may result.
- Do not touch the refrigerant pipes with bare hands during operation.
- After stopping operation, be sure to wait at least five minutes before turning off the main power switch. Otherwise, water leakage or breakdown may result.
2. Installation location

2.1. Outline dimensions (Indoor unit) (Fig. 2-1)
Select a proper position allowing the following clearances for installation and maintenance.

<table>
<thead>
<tr>
<th>Model</th>
<th>W (mm)</th>
<th>D (mm)</th>
<th>H (mm)</th>
<th>A (min. 150)</th>
<th>B (min. 50)</th>
<th>C (min. 30)</th>
<th>E (min. 250)</th>
<th>F (min. 150)</th>
</tr>
</thead>
<tbody>
<tr>
<td>RP2.5</td>
<td>1400</td>
<td>235</td>
<td>340</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>RP3</td>
<td>1400</td>
<td>235</td>
<td>340</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>RP4</td>
<td>1680</td>
<td>235</td>
<td>340</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

⚠️ Warning:
Mount the indoor unit on a ceiling strong enough to withstand the weight of the unit.

2.2. Outline dimensions (Outdoor unit)
Refer to the outdoor unit installation manual.

3. Installing the indoor unit

3.1. Check the indoor unit accessories (Fig. 3-1)
The indoor unit should be supplied with the following accessories.

<table>
<thead>
<tr>
<th>PART NUMBER</th>
<th>ACCESSORY</th>
<th>QUANTITY</th>
<th>LOCATION OF SETTING</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>Wall-fixing bracket</td>
<td>1</td>
<td>Fix at the back of the unit</td>
</tr>
<tr>
<td>2</td>
<td>Tapping screw 4 × 35</td>
<td>12</td>
<td>Set inside the unit</td>
</tr>
<tr>
<td>3</td>
<td>Insulation material</td>
<td>2</td>
<td></td>
</tr>
<tr>
<td>4</td>
<td>Band</td>
<td>4 (large) + 3 (small)</td>
<td>7</td>
</tr>
<tr>
<td>5</td>
<td>Felt tape</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>6</td>
<td>Drain socket</td>
<td>1</td>
<td></td>
</tr>
<tr>
<td>7</td>
<td>Wireless remote controller</td>
<td>1</td>
<td></td>
</tr>
<tr>
<td>8</td>
<td>Remote controller holder</td>
<td>1</td>
<td></td>
</tr>
<tr>
<td>9</td>
<td>Alkali batteries</td>
<td>2</td>
<td></td>
</tr>
</tbody>
</table>

3.2. Installing the wall mounting fixture (Fig. 3-2)

1) Setting the wall mounting fixture and piping positions
   - Using the wall mounting fixture, determine the unit’s installation position and the locations of the piping holes to be drilled.

   ⚠️ Warning:
Before drilling a hole in the wall, you must consult the building contractor.

2) Drilling the piping hole (Fig. 3-3)
   - Use a core drill to make a hole of 90-100 mm diameter in the wall in the piping direction, at the position shown in the diagram to the left.
   - The hole should incline so that the outside opening is lower than the inside opening.
   - Insert a sleeve (with a 90 mm diameter and purchased locally) through the hole.

   Note:
The purpose of the hole’s inclination is to promote drain flow.

Fig. 2-1

Fig. 3-1

Fig. 3-2

Fig. 3-3
3. Installing the indoor unit

3) Installing the wall mounting fixture
   - Since the indoor unit weighs near 30 kg, selection of the mounting location requires thorough consideration. If the wall does not seem to be strong enough, reinforce it with boards or beams before installation.
   - The mounting fixture must be secured at both ends and at the centre, if possible. Never fix it at a single spot or in any nonsymmetrical way. (If possible, secure the fixture at all the positions marked with a bold arrow.) (Fig. 3-4)
   - Secure the wall mounting fixture through its middle row of 12-mm-dia. holes using locally purchased bolts (through bolts, bolt anchor and nut anchor) of M10 or W3/8 threading. The bolt tip must not protrude by more than 15 mm from the wall surface. (Fig. 3-5)
   - Use at least two bolts for a concrete wall, and at least four bolts for a foamed concrete wall.

A Wall-fixing bracket B Mounting bolt C Wall

Warning:
If possible, secure the fixture at all the positions marked with a bold arrow.
Caution:
The unit body must be mounted horizontally.

3.3. Preparation for piping connection

Remove the vinyl band that holds the drain piping.
   - This vinyl band can be used to temporarily attach the pipes to the wall mounting fixture while connecting the left pipe.
1) Rear, right and lower piping (Fig. 3-6)
   - Remove the right side panel.
2) Left and left rear piping
   - Remove the side panel.

When embedding pipes into the wall (Fig. 3-7)
When the refrigerant pipe, drain pipes, internal/external connection lines, etc., are to be embedded into the wall in advance, the protruding pipes, etc., may have to be bent and have their length modified to the unit.
   - Make the pipes to be embedded slightly longer than necessary, and install.
   - Right side panel    C On-site piping
   - Through hole       D Wall-fixing bracket
   - Remove the five screws indicated by the arrows in the diagram. (Fig. 3-8)
   - Remove the left side panel, then the lower panel.
   1. While pushing up the front lower portion of the side panel (to disengage the side panel catch from the unit catch), slide the upper portion of the side panel to the left.
   - When the indoor unit is already mounted, be sure the unit does not fall from the wall mounting fixture.
   - For reassembly, put the catch at the front lower portion of the side panel over the unit body and push it to the right.
   - Structure of the side panel and the unit body (Fig. 3-9)
   1. Panel catch engages the unit body catch.
   2. Panel catch is put in the unit body hole.
   3. Panel catch engages the unit body catch.
   4. Sheet metal of the unit body enters the panel.
   5. Panel catch enters the unit body hole.
   - The drain hose can be connected at two different positions. Use the most convenient position and, if necessary, exchange the position of the drain pan, rubber plug and the drain hose. (Fig. 3-10)
   - Drain pan    A Band
   - Plug         B Drain hose
e Screwdriver
3. Installing the indoor unit

3.4. Mounting the indoor unit (Fig. 3-11)

① Make sure to hang the metal catches of the indoor unit over the hooks of the wall mounting fixture.
② When the piping has been completed, use the securing screws to fix the indoor unit on the wall mounting fixture.

Note:
Check that the catches of the indoor unit securely fit over the hooks of the wall mounting fixture.

① The screw indicated by the bold arrow is used only during transportation and should be removed. Remove the screw before installation if there is not enough space at the left side to remove it once the unit has been installed.
② Indoor unit
③ Wall fixing bracket
④ Hook
⑤ Metal catch of the indoor unit
⑥ Securing screws

4. Installing the refrigerant piping

4.1. Connecting pipes (Fig. 4-1)

• When commercially available copper pipes are used, wrap liquid and gas pipes with commercially available insulation materials (heat-resistant to 100 °C or more, thickness of 12 mm or more).
• The indoor parts of the drain pipe should be wrapped with polyethylene foam insulation materials (specific gravity of 0.03, thickness of 9 mm or more).
• Apply thin layer of refrigerant oil to pipe and joint seating surface before tightening flare nut.
• Use two wrenches to tighten piping connections.
• Use refrigerant piping insulation provided to insulate indoor unit connections. Insulate carefully.

Applying refrigerating machine oil over the entire flare seat surface.

Use the flare nuts as follows.

<table>
<thead>
<tr>
<th>Copper pipe O.D. (mm)</th>
<th>Flare nut O.D. (mm)</th>
<th>Flare nut tightening torque (N·m)</th>
</tr>
</thead>
<tbody>
<tr>
<td>ø6.35</td>
<td>17</td>
<td>14 - 18</td>
</tr>
<tr>
<td>ø9.52</td>
<td>22</td>
<td>34 - 42</td>
</tr>
<tr>
<td>ø12.7</td>
<td>26</td>
<td>48 - 61</td>
</tr>
<tr>
<td>ø16.88</td>
<td>29</td>
<td>68 - 82</td>
</tr>
<tr>
<td>ø15.88</td>
<td>36</td>
<td>100 - 120</td>
</tr>
</tbody>
</table>

* Apply refrigerating machine oil over the entire flare seat surface.
* Use the flare nuts as follows.

<table>
<thead>
<tr>
<th>Indoor unit (Liquid)</th>
<th>Flare nut attached to indoor liquid valve</th>
<th>Flare nut attached to indoor liquid valve accessories</th>
</tr>
</thead>
<tbody>
<tr>
<td>Indoor unit (Gas)</td>
<td>Flare nut attached to indoor gas valve</td>
<td>Flare nut in outdoor unit accessories</td>
</tr>
<tr>
<td>Outdoor unit (Liquid)</td>
<td>Flare nut attached to outdoor liquid valve</td>
<td>Flare nut attached to outdoor liquid valve</td>
</tr>
<tr>
<td>Outdoor unit (Gas)</td>
<td>Flare nut attached to outdoor gas valve</td>
<td></td>
</tr>
</tbody>
</table>

* In case that the flare nut attached to indoor gas valve is used, gas leakage or even pipe extraction will occur.

4.2. Positioning refrigerant and drain piping

① Position of refrigerant and drain piping (Fig. 4-2)
② Determine the position of the knockout holes on the unit body (Fig. 4-3)
③ Make the knockout holes using a saw blade or an adequate knife.

Caution:
The side panel must be removed before drilling a knockout hole in it. If a hole is made with the side panel in place, the refrigerant pipe within the unit could be damaged.

① L-shaped connection pipe (for gas piping) (Fig. 4-4)
⑤ Drain hose
⑥ Liquid pipe
⑦ Gas pipe
⑧ L-shaped connection pipe (option)
⑨ Unit side
⑩ Drain hose in left-side piping
⑪ On-side piping side
⑫ Knockout holes on the unit body
⑬ For left-side piping
4. Installing the refrigerant piping

4.3. Refrigerant piping (Fig. 4-5)

1) Indoor unit
   - Caution:
     Before connecting right, lower, left or left rear piping, connect the supplied L-shaped connection pipe to the on-site piping.

When using commercially available copper pipes:

<table>
<thead>
<tr>
<th>Item</th>
<th>Model</th>
<th>RP4 L</th>
<th>RP4 S</th>
</tr>
</thead>
<tbody>
<tr>
<td>Refrigerant piping</td>
<td>Liquid</td>
<td>OD ø9.52 (3/8&quot;)</td>
<td>OD ø9.52 (3/8&quot;)</td>
</tr>
<tr>
<td></td>
<td>Gas</td>
<td>OD ø15.88 (5/8&quot;)</td>
<td>OD ø19.05 (3/4&quot;)</td>
</tr>
<tr>
<td>Unit drainage piping</td>
<td></td>
<td>PVC pipe ID ø20 (13/16&quot;)</td>
<td></td>
</tr>
</tbody>
</table>

5. Drainage piping work (Fig. 5-1)

- Drain pipes should have an inclination of 1/100 or more.
- Use PVC pipe VP-20 for drain piping.
- Drain pipes can be cut with a knife at the connection point according to the on-site conditions.
- When connecting the VP-20, use adhesive to attach the supplied drain socket.
- To prevent dripping condensation, put felt tape over the insulation materials on the refrigerant and drain pipes within the unit as shown in the diagram.

Caution:
- The drain pipe should be installed according to this Installation Manual to ensure correct drainage. Thermal insulation of the drain pipes is necessary to prevent condensation. If the drain pipes are not properly installed and insulated, condensation may drip on the ceiling, floor or other possessions.

6. Electrical work

6.1. Indoor unit (Fig. 6-1)

1) Remove the right side panel.
   - To do this, remove the screws on the lower and right sides.
   - Remove the securing screw on the terminal board cover to take away the cover.
   - Connect the power, control line (3 × 2.5 mm² 2 polar).
   - This cables shall not lighter than polychloroprene sheathed flexible cord. (design 245 IEC 57)
   - Fix power source wiring to control box using buffer bushing for tensile force. (PG connection or the like.)
   - Since the electric box may need to be pulled out for servicing or other occasions, wires must have enough slack.
   - Class 3 grounding work must be conducted (grounding wire size: 2.5 mm² or more).

After wiring is completed, reinstall the parts in the reverse order of removal.

Warning:
- Wiring should be done so that the power lines are not subject to tension. Otherwise, heat may be generated or fire may occur.

- Terminal board cover
- Screw
- Band
- Printed circuit board cover
- Right side panel
- Coupler connector
- Terminal board for remote controller (option)
- Terminal board for control lines from the outdoor unit
- Power supply wiring & connection wiring
- Cord clamp
6. Electrical work

6-2. Installing the wireless remote controller

1) Installation area
   • Area in which the remote controller is not exposed to direct sunshine.
   • Area in which there is no nearby heating source.
   • Area in which the remote controller is not exposed to cold (or hot) winds.
   • Area in which the remote controller can be operated easily.
   • Area in which the remote controller is beyond the reach of children.

2) Installation method (Fig. 6-2)
   ① Attach the remote controller holder to the desired location using two tapping screws.
   ② Place the lower end of the controller into the holder.
   ③ Remote controller
   ④ Wall
   ⑤ Display panel
   ⑥ Receiver

   • The signal can travel up to approximately 7 meters (in a straight line) within 45 degrees to both right and left of the center line of the receiver.

3) Setting (Fig. 6-3)
   ① Insert batteries.
   ② Press the SET button with something sharp at the end.
   ③ Set pair number is lighted for three seconds then turned off.
   ④ Press the button twice continuously.
   ⑤ Pair No. “0” blinks.
   ⑥ Press the button to set the Model No.
   ⑦ Press the SET button with something sharp at the end.

   Press the MODE button to change the power voltage setting to 01 (240 V).

Index | Outdoor | Model No.
---- | ------ | ----
PUH | 001
PUH, PUHZ | 002
PU | 003
Model select | 005
PKA-P GA | 006
PKA-P FA | 007
PKA-P RP | 008

4) Assigning a remote controller to each unit (Fig. 6-4)
Each unit can be operated only by the assigned remote controller.
Make sure each pair of an indoor unit PC board and a remote controller is assigned to the same pair No.

5) Wireless remote controller pair number setting operation
   ① Press the SET button with something sharp at the end.
   ② Press the button twice continuously.
   ③ Direct the wireless remote controller toward the sensor of the indoor unit and press the button.
   ④ Press the button to set the pair number you want to set.
   ⑤ Press the SET button with something sharp at the end.

   Set pair number is lighted for three seconds then turned off.

<table>
<thead>
<tr>
<th>Pair No. of wireless remote controller</th>
<th>Indoor PC board</th>
</tr>
</thead>
<tbody>
<tr>
<td>0</td>
<td>Facility setting</td>
</tr>
<tr>
<td>1</td>
<td>Cut J41</td>
</tr>
<tr>
<td>2</td>
<td>Cut J42</td>
</tr>
<tr>
<td>3~9</td>
<td>Cut J41, J42</td>
</tr>
</tbody>
</table>

6.3. Function Settings (Fig. 6-5)

Changing the power voltage setting
Be sure to change the power voltage setting depending on the voltage used.
① Go to the function select mode
Press the MODE button twice continuously.
   (Start this operation from the status of remote controller display turned off.)
   Mode is lighted and “00” blinks.
   Press the TEMP button once to set “50”. Direct the wireless remote controller toward the receiver of the indoor unit and press the MODE button.
② Setting the unit number
Press the temp button and ② to set the unit number “00”. Direct the wireless remote controller toward the receiver of the indoor unit and press the MODE button.
③ Selecting a mode
Enter 04 to change the power voltage setting using the ① and ② buttons.
Direct the wireless remote controller toward the receiver of the indoor unit and press the MODE button.
   Current setting number: 1 = 1 beep (one second)
   2 = 2 beeps (one second each)
   3 = 3 beeps (one second each)
   ④ Selecting the setting number
Use the ① and ② buttons to change the power voltage setting to 01 (240 V).
Direct the wireless remote controller toward the sensor of the indoor unit and press the MODE button.
⑤ To select multiple functions continuously
Repeat steps ③ and ④ to change multiple function settings continuously.
⑥ Complete function selection
Direct the wireless remote controller toward the sensor of the indoor unit and press the MODE button.

Note:
Whenever changes are made to the function settings after construction or maintenance, be sure to record the added functions with an “X” in the “Check” column provided on the chart.
6. Electrical work

Function table
Select unit number 00

<table>
<thead>
<tr>
<th>Mode</th>
<th>Settings</th>
<th>Mode no.</th>
<th>Setting no.</th>
<th>Initial setting</th>
<th>setting</th>
</tr>
</thead>
<tbody>
<tr>
<td>Power failure automatic recovery</td>
<td>Not available</td>
<td>01</td>
<td>1</td>
<td>O</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Available</td>
<td>02</td>
<td>2</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Indoor temperature detecting</td>
<td>Indoor unit operating average</td>
<td>03</td>
<td>1</td>
<td>O</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Set by indoor unit's remote controller</td>
<td>04</td>
<td>2</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Remote controller’s internal sensor</td>
<td>05</td>
<td>3</td>
<td></td>
<td></td>
</tr>
<tr>
<td>LossNAY connectivity</td>
<td>Not supported</td>
<td>06</td>
<td>1</td>
<td>O</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Supported (indoor unit is not equipped with outdoor-air intake)</td>
<td>07</td>
<td>2</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Power voltage</td>
<td>240 V</td>
<td>08</td>
<td>3</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Auto mode (only for PUHZ)</td>
<td>Energy saving cycle automatically enabled</td>
<td>09</td>
<td>4</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Energy saving cycle automatically disabled</td>
<td>10</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Select unit numbers 01 to 03 or all units (AL [wired remote controller]/07 [wireless remote controller])

<table>
<thead>
<tr>
<th>Mode</th>
<th>Settings</th>
<th>Mode no.</th>
<th>Setting no.</th>
<th>Initial setting</th>
<th>setting</th>
</tr>
</thead>
<tbody>
<tr>
<td>Filter sign</td>
<td>120Ωh</td>
<td>01</td>
<td>1</td>
<td>O</td>
<td></td>
</tr>
<tr>
<td></td>
<td>2500pf</td>
<td>02</td>
<td>2</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Fan speed</td>
<td>Standard (PLH/PLA-P KA(H), PCH/PCA)</td>
<td>03</td>
<td>3</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>High ceiling (PLH/PLA-P KA(H), PCH/PCA)</td>
<td>04</td>
<td>4</td>
<td></td>
<td></td>
</tr>
<tr>
<td>No. of air outlets</td>
<td>4 directions</td>
<td>05</td>
<td>1</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>3 directions</td>
<td>06</td>
<td>2</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>2 directions</td>
<td>07</td>
<td>3</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Installed options (high-performance filter)</td>
<td>Not supported</td>
<td>08</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Supported</td>
<td>09</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Upright vane setting</td>
<td>No vane</td>
<td>10</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Equipped with vanes (vanes angle setup)</td>
<td>11</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Energy saving air flow (Heating mode)</td>
<td>Disabled</td>
<td>12</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Enabled</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

7. Test run

7.1. Before test run
- After completing installation and the wiring and piping of the indoor and outdoor units, check for refrigerant leakage, looseness in the power supply or control wiring, wrong polarity, and no disconnection of one phase in the supply.
- Use a 500-volt megohmmeter to check that the resistance between the power supply terminals and ground is at least 1.0MΩ.
- Do not carry out this test on the control wiring (low voltage circuit) terminals.

Warning:
- Do not use the air conditioner if the insulation resistance is less than 1.0MΩ.
- Turn on the power at least 12 hours before starting operation.
- Starting operation immediately after turning on the main power switch can result in severe damage to internal parts. Keep the power switch turned on during the operational season.

7.2. Test run

7.2.1. Using wireless remote controller (Fig. 7-1)

1. Turn on the power to the unit at least 12 hours before the test run.
2. Press the ON/OFF button twice continuously.
3. Press the button to activate cool mode, then check whether cold air is blown out from the unit.
4. Press the button to activate warm mode, then check whether warm air is blown out from the unit.
5. Press the button and check whether the auto vane operates properly.
6. Press the ON/OFF button to stop the test run.

Note:
- Point the remote controller towards the indoor unit receiver while following the steps from (1) to (6).
- It is not possible to run the in FAN, DRY or AUTO mode.

7.2.2. Using SW4 in outdoor unit
Refer to the outdoor unit installation manual.

7.3. Self-check (Fig. 7-2)

1. Turn on the power.
2. Press the ON/OFF button twice. (Start this operation from the status of remote controller display turned off.)
3. Press the button. The check code will be indicated by the number of times that the buzzer sounds from the receiver section and the number of blinks of the operation lamp.
4. Press the ON/OFF button to stop the self-check.
7. Test run

- For description of each check code, refer to the following table.

<table>
<thead>
<tr>
<th>Check code</th>
<th>Symptom</th>
<th>Buzzer sound</th>
<th>OPE LED</th>
</tr>
</thead>
<tbody>
<tr>
<td>P1</td>
<td>Intake sensor error</td>
<td>Single beep × 1</td>
<td>Lit for 1 sec. × 1</td>
</tr>
<tr>
<td>P2</td>
<td>Pipe sensor error</td>
<td>Single beep × 2</td>
<td>Lit for 1 sec. × 2</td>
</tr>
<tr>
<td>P4</td>
<td>Drain sensor error</td>
<td>Single beep × 4</td>
<td>Lit for 1 sec. × 4</td>
</tr>
<tr>
<td>P5</td>
<td>Drain pump error</td>
<td>Single beep × 5</td>
<td>Lit for 1 sec. × 5</td>
</tr>
<tr>
<td>P6</td>
<td>Freezing / Overheating safeguard operation</td>
<td>Single beep × 6</td>
<td>Lit for 1 sec. × 6</td>
</tr>
<tr>
<td>P8</td>
<td>Pipe temperature error</td>
<td>Single beep × 8</td>
<td>Lit for 1 sec. × 8</td>
</tr>
<tr>
<td>P9</td>
<td>THS sensor error</td>
<td>Single beep × 2</td>
<td>Lit for 1 sec. × 2</td>
</tr>
<tr>
<td>U0-UP</td>
<td>Outdoor unit error</td>
<td>Double beep × 1</td>
<td>Lit for 0.4 sec. + 0.4 sec. × 1</td>
</tr>
<tr>
<td>F1-FA</td>
<td>Outdoor unit error</td>
<td>Double beep × 1</td>
<td>Lit for 0.4 sec. + 0.4 sec. × 1</td>
</tr>
<tr>
<td>E0-EF</td>
<td>Signal error between remote controller and indoor units</td>
<td>Sounds other than above</td>
<td>Lights other than above</td>
</tr>
<tr>
<td></td>
<td>Communication error between indoor and outdoor units</td>
<td>Sounds other than above</td>
<td>Lights other than above</td>
</tr>
<tr>
<td>--</td>
<td>No alarm history</td>
<td>No sound</td>
<td>Not lit</td>
</tr>
<tr>
<td>FF F F</td>
<td>No unit</td>
<td>Triple beep</td>
<td>Not lit</td>
</tr>
</tbody>
</table>

- On wireless remote controller
  ① The continuous buzzer sounds from receiving section of indoor unit.
  ② Blink of operation lamp
- On wired remote controller
  ① Check code displayed in the LCD.
- If the unit cannot be operated properly after the above test run has been performed, refer to the following table to remove the cause.

<table>
<thead>
<tr>
<th>Wired remote controller</th>
<th>LED 1, 2 (PCB in outdoor unit)</th>
<th>Cause</th>
</tr>
</thead>
<tbody>
<tr>
<td>H0</td>
<td>For about 2 minutes following power-on</td>
<td>For about 2 minutes following power-on, operation of the remote controller is not possible due to system start-up. (Correct operation)</td>
</tr>
<tr>
<td>H0 → Error code</td>
<td>After LED 1, 2 are lighted, LED 2 is turned off, then only LED 1 is lighted. (Correct operation)</td>
<td>Connector for the outdoor unit's protection device is not connected. Reverse or open phase wiring for the outdoor unit's power terminal block (L1, L2, L3) Incorrect wiring between indoor and outdoor units (incorrect polarity of S1, S2, S3) Remote controller wire short</td>
</tr>
<tr>
<td>Display messages do not appear even when operation switch is turned ON (operation lamp does not light up.)</td>
<td>Only LED 1 is lighted. → LED 1, 2 blink.</td>
<td>Incorrect wiring between indoor and outdoor units (incorrect polarity of S1, S2, S3) Remote controller wire short</td>
</tr>
</tbody>
</table>

On the wireless remote controller with condition above, following phenomena takes place.
- No signals from the remote controller are accepted.
- OPE lamp is blinking.
- The buzzer makes a short piping sound.

Note:
Operation is not possible for about 30 seconds after cancellation of function selection. (Correct operation)

For description of each LED (LED 1, 2, 3) provided on the indoor controller, refer to the following table.

| LED 1 (power for microcomputer) | Indicates whether control power is supplied. Make sure that this LED is always lit. |
| LED 2 (power for remote controller) | Indicates whether power is supplied to the remote controller. This LED lights only in the case of the indoor unit which is connected to the outdoor unit refrigerant address "0". |
| LED 3 (communication between indoor and outdoor units) | Indicates state of communication between the indoor and outdoor units. Make sure that this LED is always blinking. |
This product is designed and intended for use in the residential, commercial and light-industrial environment.

The product at hand is based on the following EU regulations:

- Low Voltage Directive 73/23/ EEC

Please be sure to put the contact address/telephone number on this manual before handing it to the customer.