INSTALLATION MANUAL

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

English

安装说明书

在安装空调机之前，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 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.

## 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 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.

## 1.3. Before electric work

**Caution:**
- Be sure to install circuit breakers. If not installed, electric shock may result.
- For the power lines, use standard cables of sufficient capacity. Otherwise, a short circuit, overheating, or fire may result.
- When installing the power lines, do not apply tension to the cables.

## 1.4. Before starting the test run

**Caution:**
- Turn on 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.
- Before starting operation, check that all panels, guards and other protective parts are correctly installed. Rotating, hot, or high voltage parts can cause injuries.

- **Warning:** Indicates an action that must be avoided.
- **Caution:** Indicates that important instructions must be followed.
- **A:** Indicates a part which must be grounded.
- **V:** Indicates that caution should be taken with rotating parts.
- **E:** Indicates that the main switch must be turned off before servicing.
- **Beware of electric shock.**
- **Beware of hot surface.**
- **ELV:** At servicing, please shut down the power supply for both the Indoor and Outdoor Unit.

After installation has been completed, check for refrigerant leaks. If refrigerant leaks into the room and comes into contact with the flame of a heater or portable cooking range, poisonous gases will be released.

- Ventilate the room if refrigerant leaks during operation. If refrigerant comes into contact with a flame, poisonous gases will be released.
- All electric work must be performed by a qualified technician according to local regulations and the instructions given in this manual.
- Use only specified cables for wiring.
- The terminal block cover panel of the unit must be firmly attached.
- Use only accessories authorized by Mitsubishi Electric and ask a dealer or an authorized technician to install them.
- The user should never attempt to repair the unit or transfer it to another location.
- After installation has been completed, check for refrigerant leaks. If refrigerant leaks into the room and comes into contact with the flame of a heater or portable cooking range, poisonous gases will be released.
- 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 electrical 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.
- Thermal insulation of the refrigerant pipe is necessary to prevent condensation, if the refrigerant pipe is not properly insulated, condensation will be formed.
- Place thermal insulation on the pipes to prevent condensation. If the drainpipe is installed incorrectly, water leakage and damage to the ceiling, floor, furniture, or other possessions may result.
- Do not clean the air conditioner unit with water. Electric shock may result.
- Tighten all flare nuts to specification using a torque wrench. If tightened too much, the flare nut can break after an extended period.
- Be sure to ground the unit. If the unit is not properly grounded, electric shock may result.
- Use circuit breakers (ground fault interrupter, isolating switch (+B fuse), and molded case circuit breaker) with the specified capacity. If the circuit breaker capacity is larger than the specified capacity, breakdown or fire may result.
- 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.
- Ask a dealer or an authorized technician to install the unit.

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**Note:** Please report to your supply authority or obtain their consent before connecting this equipment to the power supply system.
2. Installation location

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

<table>
<thead>
<tr>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>RP2</td>
<td>1000</td>
<td>680</td>
<td>221</td>
<td>221</td>
<td>221</td>
<td>221</td>
<td>221</td>
<td>250</td>
<td>250</td>
</tr>
<tr>
<td>RP2.5, 3</td>
<td>1310</td>
<td>680</td>
<td>221</td>
<td>221</td>
<td>221</td>
<td>221</td>
<td>221</td>
<td>250</td>
<td>250</td>
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<tr>
<td>RP4</td>
<td>1310</td>
<td>680</td>
<td>281</td>
<td>281</td>
<td>281</td>
<td>281</td>
<td>281</td>
<td>300</td>
<td>300</td>
</tr>
<tr>
<td>RP5, 6</td>
<td>1620</td>
<td>680</td>
<td>281</td>
<td>281</td>
<td>281</td>
<td>281</td>
<td>281</td>
<td>300</td>
<td>300</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 (contained in the inside of the intake grille).

<table>
<thead>
<tr>
<th>Accessory name</th>
<th>Qty</th>
</tr>
</thead>
<tbody>
<tr>
<td>Washer</td>
<td>4 pcs</td>
</tr>
<tr>
<td>Pipe cover</td>
<td>1 pc Large size (For gas tubing)</td>
</tr>
<tr>
<td>Pipe cover</td>
<td>1 pc Small size (For liquid tubing)</td>
</tr>
<tr>
<td>Band</td>
<td>4 pcs</td>
</tr>
<tr>
<td>Joint socket</td>
<td>1 pc Marked with “UNIT”</td>
</tr>
<tr>
<td>Socket cover</td>
<td>1 pc</td>
</tr>
<tr>
<td>Drain tubing cover</td>
<td>1 pc</td>
</tr>
</tbody>
</table>

3.2. Preparation for installation (Fig. 3-2)

3.2.1. Suspension bolt installing spacing

<table>
<thead>
<tr>
<th>Models</th>
<th>A</th>
<th>B</th>
<th>C</th>
</tr>
</thead>
<tbody>
<tr>
<td>RP2</td>
<td>933</td>
<td>1000</td>
<td>221</td>
</tr>
<tr>
<td>RP2.5, 3</td>
<td>1240</td>
<td>1310</td>
<td>221</td>
</tr>
<tr>
<td>RP4</td>
<td>1240</td>
<td>1310</td>
<td>281</td>
</tr>
<tr>
<td>RP5, 6</td>
<td>1547</td>
<td>1620</td>
<td>281</td>
</tr>
</tbody>
</table>

3.2.2. Refrigerant and drain tubing location

<table>
<thead>
<tr>
<th>Models</th>
<th>D</th>
<th>E</th>
<th>F</th>
<th>G</th>
<th>H</th>
<th>J</th>
<th>K</th>
<th>L</th>
</tr>
</thead>
<tbody>
<tr>
<td>RP2, 2.5, 3</td>
<td>131</td>
<td>175</td>
<td>178</td>
<td>90</td>
<td>82</td>
<td>159</td>
<td>156</td>
<td>90</td>
</tr>
<tr>
<td>RP4, 5, 6</td>
<td>191</td>
<td>235</td>
<td>238</td>
<td>150</td>
<td>142</td>
<td>219</td>
<td>216</td>
<td>150</td>
</tr>
</tbody>
</table>

- Front side outlet
- Left side outlet
- Right side outlet
- Gas tubing
- Liquid tubing

3.2.3. Selection of suspension bolts and tubing positions (Fig. 3-3)
Using the pattern paper provided for installation, select proper positions for suspen-
sion bolts and tubing and prepare relative holes.

- Pattern paper
- Suspension bolt hole
- Indoor unit width

Secure the suspension bolts or use angle stock braces or square timbers for bolt installation.

- Use inserts of 100 kg to 150 kg each.
- Use suspension bolts of W3/8 or M10 in size.
3. Installing the indoor unit

3.2.4. Indoor unit preparation (Fig. 3-4)
1. Install the suspending bolts. (Procure the W3/8 or M10 bolts locally.)
   Predetermine the length from the ceiling (1) within 100 mm).
   - Ceiling surface
   - Suspending bolt
   - Suspending bracket
2. Remove the intake grille.
   Slide the intake grille holding knobs (at two locations) backward to open the intake grille.
3. Remove the side panel.
   Remove the side panel holding screws (one in each side, right and left) then slide the side panel forward for removal.

3.3. Installing the indoor unit
Use a proper suspending method depending on the presence or absence of ceiling materials as follows. (Fig. 3-5)
In the absence of ceiling materials
   - Suspending bracket
   - Unit

1) Directly suspending the unit (Fig. 3-6)
Installing procedures:
1. Install the washer (supplied with the unit) and the nut (to be locally procured).
2. Set (hook) the unit through the suspending bolts.
3. Tighten the nuts.
Check the unit installing condition.
   • Check that the unit is horizontal between the right and left sides.
   • Check that the unit slopes continuously downward from the front to the rear.

When embedding pipes, into the wall
2) Installing the suspending bracket first onto the ceiling (Fig. 3-7)
Installing procedures:
1. Remove the suspending brackets, U-shaped washers, and suspending bracket holding screws from the unit.
2. Adjust the suspending bracket holding bolts on the unit.
3. Attach the suspending brackets to the suspending bolts.
4. Set (hook) the unit to the suspending brackets.
   • Be sure to install the U-shaped washers.

   - Bolt
   - Unit
   - Washer
   - Suspending bracket holding screw
   - Bolt
   - Washer 1
   - Double nuts
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.

<table>
<thead>
<tr>
<th>Flare cutting dimensions</th>
<th>( \phi )</th>
<th>( 45^\circ \pm 0.5^\circ )</th>
</tr>
</thead>
<tbody>
<tr>
<td>Copper pipe O.D. (mm)</td>
<td>( \phi )</td>
<td>( 45^\circ \pm 2^\circ )</td>
</tr>
<tr>
<td>Flare dimensions ( \phi )</td>
<td>6.35</td>
<td>8.5 - 9.1</td>
</tr>
<tr>
<td></td>
<td>9.52</td>
<td>12.8 - 13.2</td>
</tr>
<tr>
<td></td>
<td>15.7</td>
<td>16.2 - 16.6</td>
</tr>
<tr>
<td></td>
<td>18.8</td>
<td>19.3 - 19.7</td>
</tr>
<tr>
<td>Indoor unit O.D. (mm)</td>
<td>19.05</td>
<td>23.8 - 24.0</td>
</tr>
</tbody>
</table>

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

4.2. Indoor unit (Fig. 4-2)

**Installing procedures**
1. Slide the supplied pipe cover (③) over the gas tubing until it is pressed against the sheet metal inside the unit.
2. Slide the provided pipe cover (③) over the liquid tubing until it is pressed against the sheet metal inside the unit.
3. Tighten the pipe covers (④) and (⑤) at the both ends (15 - 20 mm) with the supplied bands (⑥).

4.3. For twin/triple combination
Refer to the outdoor unit installation manual.

5. Drainage piping work

5.1. Preparation for left side tubing installation (Fig. 5-1)
- For left side tubing, be sure to insert the rubber plug into the right drain port.
- Install the drain tubing as it slopes continuously downward.
- After completion of work, check that correct drain is available from the outflow port of the drain tubing.
5. Drainage piping work

Installing procedures (Fig. 5-2)
1. Attach the joint socket ① supplied with the unit to the drain port on the unit with a vinyl chloride adhesive.
2. Fasten the socket cover ② supplied with the unit to the joint socket ①.
3. Attach the field drain tubing (VP20) to the joint socket ① with a vinyl chloride adhesive.
4. Wrap the drain tubing cover ⑦ supplied with the unit. (Beam taping)

5. Check for correct drainage. (Fig. 5-3)
   + Fill the drain pan with water of about 1 L from the tubing sensor access port.
   + After checking for correct drainage, replace the tubing sensor access port cover.

6. Electrical work

6-1. Electric wiring (Fig. 6-1)

Wiring procedures
1. Remove the (two) tapping screws then remove the electric part cover.
2. Connect the electric wires securely to the corresponding terminals.
3. Replace the removed parts.
4. Tie the electric wires with the local wiring clamp located in the right side of the junction box.

Indoor unit model

<table>
<thead>
<tr>
<th>Main switch (Breaker)</th>
<th>PCA</th>
<th>PCH</th>
</tr>
</thead>
<tbody>
<tr>
<td>Indoor unit power supply (Heater)</td>
<td>–</td>
<td>–</td>
</tr>
<tr>
<td>Indoor unit power supply (Heater) earth</td>
<td>–</td>
<td>–</td>
</tr>
<tr>
<td>Indoor unit-Outdoor unit</td>
<td>2 × 1.5 (Phase)</td>
<td>3 × 2.5 (Phase)</td>
</tr>
<tr>
<td>Indoor unit-Outdoor unit earth</td>
<td>1 × Min. 2.5</td>
<td>1 × Min. 2.5</td>
</tr>
<tr>
<td>Remote controller-Indoor unit</td>
<td>2</td>
<td>2 × 0.69 (Non-polar)</td>
</tr>
<tr>
<td>Indoor unit (Heater) l-N</td>
<td>3</td>
<td>AC 220-230-240V</td>
</tr>
<tr>
<td>Indoor unit (Heater) l-N 2</td>
<td>3</td>
<td>AC 220-230-240V</td>
</tr>
<tr>
<td>Indoor unit-Outdoor unit (Heater) l-N</td>
<td>3</td>
<td>DC14V</td>
</tr>
<tr>
<td>Remote controller-Indoor unit</td>
<td>3</td>
<td>DC14V</td>
</tr>
</tbody>
</table>

Notes:
1. A breaker with at least 3 mm contact separation in each pole shall be provided. Use non-fuse breaker (NF) or earth leakage breaker (NV).
2. A 10 m wire is attached in the remote controller accessory.
3. The figures are NOT always against the ground.
   1S terminal has DC 24 V against 1S terminal. However between 1S and 1S1, these terminals are not electrically insulated by the transformer or other device.

Notes:
1. Wiring size must comply with the applicable local and national code.
2. Power supply cords and Indoor unit/Outdoor unit connecting cords shall not be lighter than polychloroprene sheathed flexible cord. (Design 245 IEC 57)
3. Install an earth longer and thicker than other cables.
6. Electrical work

6.2. Remote controller
6.2.1. For wired remote controller

1) Installing procedures
(1) Select an installing position for the remote controller. (Fig. 6-2)
   The temperature sensors are located on both remote controller and indoor unit.
   - Procure the following parts locally:
     Two piece switch box
     Thin copper conduit tube
     Lock nuts and bushings
     Remote controller profile
     Required clearances surrounding the remote controller
     Installation pitch
   - Seal the service entrance for the remote controller cord with putty to prevent possible invasion of dew drops, water, cockroaches or worms. (Fig. 6-3)
   - For installation in the switch box:
     (a) Prepare a hole through the wall to pass the remote controller cord (in order to run the remote controller cord from the back), then seal the hole with putty.
     (b) Run the remote controller cord through the cut-out upper case, then seal the cut-out notch with putty similarly as above.

B-1. To lead the remote controller cord from the back of the controller:
   - To run the remote controller cord through the upper portion:

B-2. To run the remote controller cord through directly:

2) Connecting procedures (Fig. 6-4)
   - Connect the remote controller cord to the terminal block.
   - To TB5 on the indoor unit
   - TB6 (No polarity)
   - Set the dip switch No.1 shown below when using two remote controller’s for the same group.
   - Dip switches

Setting the dip switches:
The dip switches are at the bottom of the remote controller. Remote controller Main/ Sub and other function settings are performed using these switches. Ordinarily, only change the Main/Sub setting of SW No.1. (The factory settings are all “ON”.)

6.3. Function settings
6.3.1. For wired remote controller (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 setting mode.
      Switch OFF the remote controller.
      Press the [③] and [④] buttons simultaneously and hold them for at least 2 seconds. FUNCTION will start to flash.
   2) Use the [⑦] button to set the refrigerant address (Ⅱ) to 00.
   3) Press [③] and [④] will start to flash in the unit number (Ⅰ) display.
   4) Use the [⑦] button to set the unit number (Ⅰ) to 00.
   5) Press the [③] MODE button to designate the refrigerant address/unit number. [④] will flash in the mode number (Ⅰ) display momentarily.
   6) Press the [③] buttons to set the mode number (Ⅰ) to 04.
   7) Press the [③] button and the current set setting number (Ⅰ) will flash.
      Use the [⑦] button to switch the setting number in response to the power supply voltage to be used.

   Power supply voltage
   - 240 V : Setting number = 1
   - 220 V, 230 V : Setting number = 2
   8) Press the MODE [③] and mode and the setting number (Ⅰ) and (Ⅱ) will change to being on constantly and the contents of the setting can be confirmed.
   9) Press the [⑦] and TEST RUN [③] buttons simultaneously for at least two seconds. The function selection screen will disappear momentarily and the air conditioner OFF display will appear.
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>☐</td>
<td></td>
</tr>
<tr>
<td>Indoor temperature detecting</td>
<td>Indoor unit operating average</td>
<td>02</td>
<td>1</td>
<td>☐</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Remote controller’s internal sensor</td>
<td>02</td>
<td>2</td>
<td>☐</td>
<td></td>
</tr>
<tr>
<td>LossNay connectivity</td>
<td>Not supported</td>
<td>03</td>
<td>1</td>
<td>☐</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Supported (indoor unit is not equipped with outdoor-air intake)</td>
<td>03</td>
<td>2</td>
<td>☐</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Supported (indoor unit is equipped with outdoor-air intake)</td>
<td>03</td>
<td>3</td>
<td>☐</td>
<td></td>
</tr>
<tr>
<td>Power voltage</td>
<td>240 V</td>
<td>04</td>
<td>1</td>
<td>☐</td>
<td></td>
</tr>
<tr>
<td></td>
<td>220 V, 230 V</td>
<td>04</td>
<td>2</td>
<td>☐</td>
<td></td>
</tr>
<tr>
<td>Auto mode (only for PUHZ)</td>
<td>Energy saving cycle automatically enabled</td>
<td>05</td>
<td>1</td>
<td>☐</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Energy saving cycle automatically disabled</td>
<td>05</td>
<td>2</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)]

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>Filter sign</td>
<td>120 W</td>
<td>07</td>
<td>1</td>
<td>☐</td>
<td></td>
</tr>
<tr>
<td></td>
<td>2500 Hz</td>
<td>07</td>
<td>2</td>
<td>☐</td>
<td></td>
</tr>
<tr>
<td>Fan speed</td>
<td>No filter sign indicator</td>
<td>08</td>
<td>1</td>
<td>☐</td>
<td></td>
</tr>
<tr>
<td></td>
<td>High ceiling (PLH/PLA)/Standard (PCH/PCA)</td>
<td>08</td>
<td>2</td>
<td>☐</td>
<td></td>
</tr>
<tr>
<td></td>
<td>High ceiling (PLH/PLA)/High ceiling (PCH/PCA)</td>
<td>08</td>
<td>3</td>
<td>☐</td>
<td></td>
</tr>
<tr>
<td>No. of air outlets</td>
<td>3 directions</td>
<td>09</td>
<td>1</td>
<td>—</td>
<td></td>
</tr>
<tr>
<td></td>
<td>2 directions</td>
<td>09</td>
<td>2</td>
<td>—</td>
<td></td>
</tr>
<tr>
<td>Installed options</td>
<td>Not supported</td>
<td>10</td>
<td>1</td>
<td>☐</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Supported</td>
<td>10</td>
<td>2</td>
<td>☐</td>
<td></td>
</tr>
<tr>
<td>Upright vane setting</td>
<td>No vanes</td>
<td>11</td>
<td>1</td>
<td>—</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Equipped with vanes (vanes angle setup)</td>
<td>11</td>
<td>2</td>
<td>—</td>
<td></td>
</tr>
<tr>
<td>Energy saving air flow</td>
<td>Enabled</td>
<td>12</td>
<td>1</td>
<td>☐</td>
<td></td>
</tr>
<tr>
<td>(Heating mode)</td>
<td>Enabled</td>
<td>12</td>
<td>2</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 1.0 MΩ.

> 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 1.0 MΩ. Insulation resistance

7.2. Test run

The following 3 methods are available.

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

- Turn on the power at least 12 hours before the test run.
- Press the [TEST] button twice. ➞ “TEST RUN” liquid crystal display
- Press the [Mode selection] button. ➞ Make sure that wind is blown out.
- Press the [Mode selection] button and switch to the cooling (or heating) mode. ➞ Make sure that cold (or warm) wind is blown out.
- Press the [Fan speed] button. ➞ Make sure that the wind speed is switched.
- Switch the wind direction by pressing the [Airflow] or [Louver] button. ➞ Make sure that horizontal outlet, downward outlet, and other wind direction adjustments are possible.
- Check operation of the outdoor unit fan.
- Release test run by pressing the [ON/OFF] button. ➞ Stop
- After the checks, always turn off the power.

7.2.2. Using SW4 in outdoor unit

Refer to the outdoor unit installation manual.

7.3. Self-check

7.3.1. Wired remote controller (Fig. 7-2)

- Turn on the power.
- Press the [CHECK] button twice.
- Set refrigerant address with [TEMP] button if system control is used.
- 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–E5</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>E6–EF</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>F FF 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><em>For about 2 minutes following power-on, operation of the remote controller is not possible due to system start-up. (Correct operation)</em></td>
</tr>
<tr>
<td>H0 → Error code</td>
<td>After about 2 minutes following power-on</td>
<td><em>Connector for the outdoor unit’s protection device is not connected.</em></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 blinks.</td>
<td><em>Incorrect wiring between indoor and outdoor units (incorrect polarity of S1, S2, S3)</em></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 (LED1, 2, 3) provided on the indoor controller, refer to the following table.

| LED1 (power for microcomputer) | Indicates whether control power is supplied. Make sure that this LED is always lit. |
| LED2 (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”. |
| LED3 (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.