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

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.

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.

Caution:
Describes precautions that must be observed to prevent damage to the unit.

Before installation work, follow the instructions in the Installation Manual and use tools and pipe components specifically made for use with refrigerant specified in the outdoor unit installation manual.

The unit must be installed according to the instructions in order to minimize the risk of damage from earthquakes, typhoons, or strong winds. An incorrectly installed unit may fall down and cause damage or injuries.

The unit must be securely installed on a structure that can sustain its weight.

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.

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 direct airflow of the indoor unit or too close to the unit, as these items can be damaged by temperature changes or dripping water.

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 safety dispose of the packaging materials. Packaging materials, such as nails and other metal or wooden parts may cause stabs or other injuries.

Caution:
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 tightly, the flare nut can break after an extended period.

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 fire may result.

When installing the power lines, do not apply tension to the cables.

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.

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.

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

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>Accessory name</th>
<th>Qty</th>
</tr>
</thead>
<tbody>
<tr>
<td>Installation template</td>
<td>1</td>
</tr>
<tr>
<td>Washers (with insulation)</td>
<td>4</td>
</tr>
<tr>
<td>Washers (without insulation)</td>
<td>4</td>
</tr>
<tr>
<td>Pipe cover (for refrigerant piping)</td>
<td></td>
</tr>
<tr>
<td>Small diameter</td>
<td>1</td>
</tr>
<tr>
<td>Large diameter</td>
<td>1</td>
</tr>
<tr>
<td>Band (large)</td>
<td>6</td>
</tr>
<tr>
<td>Band (small)</td>
<td>2</td>
</tr>
<tr>
<td>Screw with washer (M5 x 25) for mounting grille</td>
<td>4</td>
</tr>
<tr>
<td>Drain socket</td>
<td>1</td>
</tr>
<tr>
<td>Insulation</td>
<td>1</td>
</tr>
</tbody>
</table>

3.2. Ceiling openings and suspension bolt installation locations (Fig. 3-2)

- Using the installation template (top of the package) and the gauge (supplied as an accessory with the grille), make an opening in the ceiling so that the main unit can be installed as shown in the diagram. (The method for using the template and the gauge are shown.)
  - Before using, check the dimensions of template and gauge, because they change due to fluctuations of temperature and humidity.
  - The dimensions of ceiling opening can be regulated within the range shown in following diagram; so center the main unit against the opening of ceiling, ensuring that the respective opposite sides on all sides of the clearance between them becomes identical.
- Use M10 (3/8") suspension bolts.
  - Suspension bolts are to be procured at the field.
- Install securely, ensuring that there is no clearance between the ceiling panel & grille, and between the main unit & grille.
  - Outer side of main unit
  - Bolt pitch
  - Ceiling opening
  - Outer side of Grille
  - Grille
  - Ceiling
  - Multi function casement (option)
  - Entire periphery
  - Note that the space between ceiling panel of the unit and ceiling slab and etc must be 10 to 15 mm.

<table>
<thead>
<tr>
<th>Mold No.</th>
<th>C (mm)</th>
<th>D (mm)</th>
</tr>
</thead>
<tbody>
<tr>
<td>RP1.6,2,2.5,3</td>
<td>241</td>
<td>258</td>
</tr>
<tr>
<td>RP4.5,6</td>
<td>281</td>
<td>298</td>
</tr>
</tbody>
</table>
3. Installing the indoor unit

3.3. Branch duct hole and fresh air intake hole (Fig. 3-3)
At the time of installation, use the duct holes (cut out) located at the positions shown in following diagram, as and when required.

- A fresh air intake hole for the optional multi function casement can also be made.

**Note:**
The figure marked with ‘*’ in the drawing represent the dimensions of the main unit excluding those of the optional multi function casement.

When installing the optional multi function casement, add 135 mm to the dimensions marked on the figure.

When installing the branch ducts, be sure to insulate adequately. Otherwise condensation and dripping may occur.

![Fig. 3-3](image)

3.4. Suspension structure (Give site of suspension strong structure) (Fig. 3-4)

- The ceiling work differs according to the construction of the building. Building constructors and interior decorators should be consulted for details.
  1. Extent of ceiling removal: The ceiling must be kept completely horizontal and the ceiling foundation (framework: wooden slats and slat holders) must be reinforced in order to protect the ceiling from vibration.
  2. Cut and remove the ceiling foundation.
  3. Reinforce the ends of the ceiling foundation where it has been cut and add ceiling foundation for securing the ends of the ceiling board.
  4. When installing the indoor unit on a slanting ceiling, attach a pillar between the ceiling and the grille and set so that the unit is installed horizontally.

- Wooden structures
  - Use tie beams (single storied houses) or second floor beams (two story houses) as reinforcing members.
  - Wooden beams for suspending air conditioners must be sturdy and their sides must be at least 6 cm long if the beams are separated by not more than 90 cm and their sides must be at least 9 cm long if the beams are separated by as much as 180 cm. The size of the suspension bolts should be ø10 (3/8”). (The bolts do not come with the unit.)

- Iron-concrete structures
  - Secure the suspension bolts using the method shown, or use steel or wooden hangers, etc. to install the suspension bolts.

3.5. Unit suspension procedures (Fig. 3-5)
Suspend the main unit as shown in the diagram.

Figures given in parentheses represent the dimensions in case of installing optional mult function casement.

1. In advance, set the parts onto the suspension bolts in the order of the washers (with insulation), washers (without insulation) and nuts (double).
   - Fill the washer with cushion so that the insulation faces downward.
   - In case of using upper washers to suspend the main unit, the lower washers (with insulation) and nuts (double) are to be set later.

2. Lift the unit to the proper height of the suspension bolts to insert the mounting plate between washers and then fasten it securely.

3. When the main unit can not be aligned against the mounting hole on the ceiling, it is adjustable owing to a slot provided on the mounting plate.
   - Make sure that step A is performed within 17-22 mm. Damage could result by failing to adhere to this range. (Fig. 3-6)

**Caution:**
Use the top half of the box as a protective cover to prevent dust or debris from getting inside the unit prior to installation of the decorative cover or when applying ceiling materials.

3.6. Confirming the position of main unit and tightening the suspension bolts (Fig. 3-7)

- Using the gauge attached to the grille, ensure that the bottom of the main unit is properly aligned with the opening of the ceiling. Be sure to confirm this, otherwise condensation may form and drip due to air leakage etc.
- Confirm that the main unit is horizontally levelled, using a level or a vinyl tube filled with water.
- After checking the position of the main unit, tighten the nuts of the suspension bolts securely to fasten the main unit.

The installation template (top of the package) can be used as a protective sheet to prevent dust from entering the main unit when the grilles are left unattached for a while or when the ceiling materials are to be lined after installation of the unit is finished.

* As for the details of fitting, refer to the instructions given on the Installation template.
4. Installing the pipes

4.1. Refrigerant and drainage piping locations of indoor unit

The figure marked with * in the drawing represent the dimensions of the main unit excluding those of the optional multi function casement. (Fig. 4-1)

- Drain pipe
- Ceiling
- Grille
- Refrigerant pipe (liquid)
- Refrigerant pipe (gas)
- Water supply inlet
- Main unit

- When the optional multi-functional casement is installed, add 135 mm to the dimensions marked on the figure.

5. Refrigerant piping work

5.1. Connecting pipes (Fig. 5-1)

- 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.

5.2. Indoor unit (Fig. 5-2)

- Heat insulation for refrigerant pipes:
  - Wrap the enclosed large-sized pipe cover around the gas pipe, making sure that the end of the pipe cover touches the side of the unit.
  - Wrap the enclosed small-sized pipe cover around the liquid pipe, making sure that the end of the pipe cover touches the side of the unit.
  - Secure both ends of each pipe cover with the enclosed bands. (Attach the bands 20 mm from the ends of the pipe covers)
  - After connecting the refrigerant piping to the indoor unit, be sure to test the pipe connections for gas leakage with nitrogen gas. (Check that there is no refrigerant leakage from the refrigerant piping to the indoor unit.)

5.3. For twin/triple combination

Refer to the outdoor unit installation manual.
6. Drainage piping work

6.1. Drainage piping work (Fig. 6-1)
- Use VP25 (O.D. ø32 PVC TUBE) for drain piping and provide 1/100 or more downward slope.
- Be sure to connect the piping joints using a polyvinyl type adhesive.
- Observe the figure for piping work.
- Use the included drain hose to change the extraction direction.

7. Electrical work

7.1. Indoor unit (Fig. 7-1)
1. Remove the two electrical wiring service panels.
2. Wire the power cable and control cable separately through the respective wiring entries given in the diagram.
   - Do not allow slackening of the terminal screws.
   - Leave excess cable so that the electrical box can be suspended below the unit during servicing. (Approx. 50 to 100 mm)
3. Install a locally purchased drain pipe (PVC pipe, O.D. ø32).
4. Check that drain flows smoothly.
5. Insulate the drain port with insulating material, then secure the material with a band. (Both insulating material and band are supplied with the unit.)

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**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 tighter than polychloroprene sheathed flexible cord. (Design 245 IEC 57)
3. Install an earth longer and thicker than other cables.
7. Electrical work

7.2. Remote controller

7.2.1. For wired remote controller

1) Installing procedures

(1) Select an installing position for the remote controller. (Fig. 7-2)

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

(2) Seal the service entrance for the remote controller cord with putty to prevent possible invasion of dew drops, water, cockroaches or worms. (Fig. 7-3)

- For installation in the switch box:
  - 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.
  - 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: B-2. To run the remote controller cord through the upper portion:

(3) For direct installation on the wall

- Wall
- Conduit
- Lock nut
- Bushing
- Switch box
- Remote controller cord
- Seal with putty
- Wood screw

2) Connecting procedures (Fig. 7-4)

(1) Connect the remote controller cord to the terminal block.
- To TB5 on the indoor unit
- TB6 (No polarity)

(2) Set the dip switch No.1 shown below when using two remote controller’s for the same group.
- 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”)

7.2.2. For 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. 7-5)

(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.
- Remote controller
- Wall
- Display panel
- 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. 7-6)

- Insert batteries.
- Press the SET button with something sharp at the end. REMOTE blinks and Model No. is lighted.
- Press the SET button with something sharp at the end. REMOTE blinks and Model No. is lighted.
- Press the SET button with something sharp at the end. REMOTE blinks and Model No. is lighted.

- When Model No. and Model No. are lighted for three seconds, then turned off.

<table>
<thead>
<tr>
<th>Indoor</th>
<th>Outdoor</th>
<th>Model No.</th>
</tr>
</thead>
<tbody>
<tr>
<td>PUH, PCH, PKH (1, 6, 2)</td>
<td>PUH, PUHZ</td>
<td>001</td>
</tr>
<tr>
<td>PLA, PCA, PKA (1, 6, 2)</td>
<td>PUH, PUHZ</td>
<td>003</td>
</tr>
<tr>
<td>PKH (2, 5, 3, 4)</td>
<td>PUH, PUHZ</td>
<td>003</td>
</tr>
<tr>
<td>PKA (2, 5, 3, 4)</td>
<td>PUH, PUHZ</td>
<td>035</td>
</tr>
</tbody>
</table>
7. Electrical work

4) Assigning a remote controller to each unit (Fig. 7-7)
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.
Start this operation from the status of remote controller display turned off.
② Press the temp button twice continuously.
Pair No. "0" blinks.
③ Press the temp button to set the pair number you want to set.
④ Press the SET button with something sharp at the end.
Set pair number is lighted for three seconds then turned off.

7.3. Function settings

7.3.1. For wired remote controller (Fig. 7-8)
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 "①" and "②" buttons simultaneously and hold them for at least 2 seconds. FUNCTION will start to flash.
② Use the "①" button to set the refrigerant address (①) to 00.
③ Press "①" and "②" will start to flash in the unit number (①) display.
④ Use the "①" button to set the unit number (②) to 00.
⑤ Press the MODE button to designate the refrigerant address/unit number. [②] will flash in the mode number (②) display momentarily.
⑥ Press the "①" buttons to set the mode number (①) to 04.
⑦ Press the "②" button and the current set setting number (①) will flash.
Use the "①" 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 FILTER "①" and TEST RUN "②" buttons simultaneously for at least two seconds. The function selection screen will disappear momentarily and the air conditioner OFF display will appear.

7.3.2. For wireless remote controller (Fig. 7-9)
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 "①" button twice continuously.
(Start this operation from the status of remote controller display turned off.)
② Model is lighted and "②" blinks.
Press the temp "②" button once to set "①". Direct the wireless remote controller toward the receiver of the indoor unit and press the "②" button. ③ Setting the unit number.
Press the temp "①" button and "②" to set the unit number "00". Direct the wireless remote controller toward the receiver of the indoor unit and press the "②" button. ④ Selecting a mode
Enter 04 to change the power voltage setting using the "①" "②" and "③" "④" buttons.
Direct the wireless remote controller toward the receiver of the indoor unit and press the "④" button.
Current setting number: 1 = 1 beep (one second)
2 = 2 beeps (one second each)
3 = 3 beeps (one second each)
⑤ 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 "②" button. ⑥ To select multiple functions continuously
Repeat steps ④ and ⑤ to change multiple function settings continuously.
⑦ Complete function selection
Direct the wireless remote controller toward the sensor of the indoor unit and press the "④" button. Note:
Whenever changes are made to the function settings after installation or maintenance, be sure to record the changes with a mark in the "Setting" column of the Function table.
7. 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>Indoor temperature detecting</td>
<td>Indoor unit operating average</td>
<td>02</td>
<td>1</td>
<td>O</td>
<td></td>
</tr>
<tr>
<td>Remote controller’s internal sensor</td>
<td>Set by indoor unit’s remote controller</td>
<td>03</td>
<td>1</td>
<td>O</td>
<td></td>
</tr>
<tr>
<td>LOWNAY connectivity</td>
<td>Not supported</td>
<td>04</td>
<td>1</td>
<td>O</td>
<td></td>
</tr>
<tr>
<td>Power voltage</td>
<td>240 V 220 V, 230 V</td>
<td>05</td>
<td>1</td>
<td>O</td>
<td></td>
</tr>
<tr>
<td>Auto mode (only for PUHZ)</td>
<td>Energy saving cycle automatically enabled</td>
<td>06</td>
<td>1</td>
<td>O</td>
<td></td>
</tr>
<tr>
<td>Auto mode (only for PUHZ)</td>
<td>Energy saving cycle automatically disabled</td>
<td>07</td>
<td>1</td>
<td>O</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>1000 MΩ, 2500 kΩ</td>
<td>07</td>
<td>1</td>
<td>O</td>
<td></td>
</tr>
<tr>
<td>No filter sign indicator</td>
<td>No filter sign indicator</td>
<td>08</td>
<td>1</td>
<td>O</td>
<td></td>
</tr>
<tr>
<td>Fan speed</td>
<td>Standard (PLH/PLA)/High (PCH/PCA)</td>
<td>09</td>
<td>1</td>
<td>O</td>
<td></td>
</tr>
<tr>
<td>High ceiling (PLH/PLA)/High (PCH/PCA)</td>
<td>High ceiling (PLH/PLA)/High (PCH/PCA)</td>
<td>10</td>
<td>1</td>
<td>O</td>
<td></td>
</tr>
<tr>
<td>No. of air outlets</td>
<td>2 directions</td>
<td>11</td>
<td>1</td>
<td>O</td>
<td></td>
</tr>
<tr>
<td>3 directions</td>
<td>2 directions</td>
<td>12</td>
<td>1</td>
<td>O</td>
<td></td>
</tr>
<tr>
<td>Installed options (high-performance filter)</td>
<td>Supported</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Up/down vane setting</td>
<td>Equipped with vanes (vanes angle setup)</td>
<td>1</td>
<td>1</td>
<td>O</td>
<td></td>
</tr>
<tr>
<td>No vanes</td>
<td>Equipped with vanes (vanes angle setup)</td>
<td>2</td>
<td>1</td>
<td>O</td>
<td></td>
</tr>
<tr>
<td>Energy saving air flow</td>
<td>Disabled</td>
<td>3</td>
<td>1</td>
<td>O</td>
<td></td>
</tr>
<tr>
<td>(heating mode)</td>
<td>Enabled</td>
<td>4</td>
<td>1</td>
<td>O</td>
<td></td>
</tr>
</tbody>
</table>

8. Test run

8.1. 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

- Do not use the air conditioner if the insulation resistance is less than 1.0 MΩ.

8.2. Test run

The following 3 methods are available.

8.2.1. Using wired remote controller (Fig. 8-1)

1. Turn on the power at least 12 hours before the test run.
2. Press the [MODE] button twice. ➡ “TEST RUN” liquid crystal display
3. Press the [MODE] button and check whether the auto vane operates properly.
4. Press the [ON/OFF] button to stop the test run.

8.2.2. Using wireless remote controller (Fig. 8-2)

1. Turn on the power at the unit at least 12 hours before the test run.
2. Press the button twice continuously.
3. Press the [ON/OFF] button to activate mode, then check whether cool air is blown out from the unit.
4. Press the [ON/OFF] button to activate mode, then check whether warm air is blown out from the unit.
5. Press the button and check whether fan speed changes.
6. Press the button and check whether the auto vane operates properly.
7. After the checks, always turn off the power.

### Note:

- Point the remote controller towards the indoor unit receiver while following steps to .
- It is not possible to run the in FAN, DRY or AUTO mode.
8. Test run

8.3. Self-check

8.3.1. Wired remote controller (Fig. 8-3)

1. Turn on the power.
2. Press the [CHECK] button twice.
3. Press the [ON/OFF] button to stop the self-check.
4. Set refrigerant address with [TEMP] button if system control is used.
5. Press the [CHECK] button three times.
6. Change the temperature setting to the lowest setting.
7. Press the [CHECK] button until the check code displays in the LCD.
8. Press the [ON/OFF] button to stop the self-check.

8.3.2. Wireless remote controller (Fig. 8-4)

1. Turn on the power.
2. Press the [CHECK] button twice.
3. Press the [ON/OFF] button to stop the self-check.
4. While pointing the remote controller toward the unit’s receiver, press the [CHECK] button twice.
5. Press the [ON/OFF] button to stop the self-check.
6. Turn on the power.
7. Set refrigerant address with [TEMP] button if system control is used.
8. Press the [CHECK] button until the check code displays in the LCD.
9. Press the [ON/OFF] button to stop the self-check.

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 x 1</td>
<td>Lit for 1 sec. x 1</td>
</tr>
<tr>
<td>P2</td>
<td>Pipe sensor error</td>
<td>Single beep x 2</td>
<td>Lit for 1 sec. x 2</td>
</tr>
<tr>
<td>P3</td>
<td>Main sensor error</td>
<td>Single beep x 3</td>
<td>Lit for 1 sec. x 3</td>
</tr>
<tr>
<td>P4</td>
<td>Drain pump error</td>
<td>Single beep x 4</td>
<td>Lit for 1 sec. x 4</td>
</tr>
<tr>
<td>P5</td>
<td>Freezing/defrosting safeguard operation</td>
<td>Single beep x 5</td>
<td>Lit for 1 sec. x 5</td>
</tr>
<tr>
<td>P6</td>
<td>Pipe temperature error</td>
<td>Single beep x 6</td>
<td>Lit for 1 sec. x 6</td>
</tr>
<tr>
<td>P7</td>
<td>TH sensor error</td>
<td>Single beep x 7</td>
<td>Lit for 1 sec. x 7</td>
</tr>
<tr>
<td>P8</td>
<td>HIB sensor error</td>
<td>Single beep x 8</td>
<td>Lit for 1 sec. x 8</td>
</tr>
<tr>
<td>US–UP</td>
<td>Outdoor unit error</td>
<td>Double beep x 1</td>
<td>Lit for 0.4 sec. x 2</td>
</tr>
<tr>
<td>F1–FA</td>
<td>Outdoor unit error</td>
<td>Double beep x 2</td>
<td>Lit for 0.4 sec. x 2</td>
</tr>
<tr>
<td>E0–ES</td>
<td>Signal error between remote controller and indoor units</td>
<td>Double beep x 3</td>
<td>Sounder other than above</td>
</tr>
<tr>
<td>E6–EF</td>
<td>Communication error between indoor and outdoor units</td>
<td>Double beep x 4</td>
<td>Light other than above</td>
</tr>
</tbody>
</table>

For wired remote controller:
- The continuous buzzer sounds from receiving section of indoor unit.
- Blink of operation lamp
- On wired remote controller
- Check code displayed in the LCD.

For wireless remote controller:
- The continuous buzzer sounds from receiving section of indoor unit.
- Blink of operation lamp
- On wireless remote controller
- 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>Symptom</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 about 2 minutes has elapsed following power-on</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).</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).</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 blinks twice, LED 2 blinks once.</td>
<td>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.
8. Test run

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.

<table>
<thead>
<tr>
<th>LED1 (power for microcomputer)</th>
<th>Indicates whether control power is supplied. Make sure that this LED is always lit.</th>
</tr>
</thead>
<tbody>
<tr>
<td>LED2 (power for remote controller)</td>
<td>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 &quot;0&quot;.</td>
</tr>
<tr>
<td>LED3 (communication between indoor and outdoor units)</td>
<td>Indicates state of communication between the indoor and outdoor units. Make sure that this LED is always blinking.</td>
</tr>
</tbody>
</table>

8.4. Check of drainage (Fig. 8-5)

- During the trial run, ensure the water is being properly drained out and that no water is leaking from joints.
- Always check this during installation even if the unit is not required to provide cooling/drying at that time.
- Similarly, check the drainage before finishing ceiling installation in a new premises.
  1. Remove the cover of the water supply inlet and add about 1000 cc of water using a water supply pump etc. During this process, be careful not to spray water into the drain pump mechanism.
  2. Confirm that water is being drained out through the drainage outlet, after switching over from remote control mode to trial run mode.
  3. After checking the drainage, ensure that the cover is replaced and the power supply is isolated.
  4. After confirming the drainage system is functioning, replace the drain plug.

9. System control

Refer to the outdoor unit installation manual.

10. Installing the grille

10.1. Checking the contents (Fig. 10-1)

- This kit contains this manual and the following parts.

<table>
<thead>
<tr>
<th>Accessory name</th>
<th>Qty</th>
<th>Remark</th>
</tr>
</thead>
<tbody>
<tr>
<td>Grille</td>
<td>1</td>
<td>950 × 950 (mm)</td>
</tr>
<tr>
<td>Screw with captive washer</td>
<td>4</td>
<td>M5 × 0.8 × 25</td>
</tr>
<tr>
<td>Gauge</td>
<td>1</td>
<td>(Divided into four parts)</td>
</tr>
<tr>
<td>Fastener</td>
<td>2</td>
<td></td>
</tr>
<tr>
<td>Screw</td>
<td>4</td>
<td>4 × 8</td>
</tr>
<tr>
<td>Wireless remote controller</td>
<td>1</td>
<td>for PLP-6AALM</td>
</tr>
<tr>
<td>Wired remote controller</td>
<td>1</td>
<td>for PLP-6AAM</td>
</tr>
</tbody>
</table>

10.2. Preparing to attach the grille (Fig. 10-2)

- With the gauge ③ supplied with this kit, adjust and check the positioning of the unit relative to the ceiling, if the unit is not properly positioned relative to the ceiling, it may allow air leaks or cause condensation to collect.
- Make sure that the opening in the ceiling is within the following tolerances: 860 × 860 - 910 × 910
- Make sure that step A is performed within 17-22 mm. Damage could result by failing to adhere to this range.

10.2.1. Removing the intake grille (Fig. 10-3)

- Slide the levers in the direction indicated by the arrow ① to open the intake grille.
- Unlatch the hook that secures the grille.
- * Do not unlatch the hook for the intake grille.
- With the intake grille in the "open" position, remove the hinge of the intake grille from the grille as indicated by the arrow ②.

10.2.2. Removing the corner panel (Fig. 10-4)

- Remove the screw from the corner of the corner panel. Slide the corner panel as indicated by the arrow ① to remove the corner panel.

---

Fig. 8-5

A. Insert the pump end 3 to 5 cm
B. Cover of water supply inlet
C. About 1000 cc
D. Water
E. Drain plug

Fig. 10-1

Fig. 10-2

Fig. 10-3

Fig. 10-4
10. Installing the grille

10.4. Installing the grille

10.4.1. Preparations (Fig. 10-5)
• Install the two enclosed screws with washer 2 in the main unit (at the corner drain pipe area and at the opposite corner) as shown in the diagram.

Fig. 10-5

10.4.2. Temporary installation of the grille (Fig. 10-6)
• Temporarily secure the grille using the bell shaped holes by aligning the corner drain pipe area of the main unit with the two holes of the grille that are marked A and B.
  * Make sure that the lead wiring of the grille does not get pinched between the grille and the main unit.

Fig. 10-6

10.4.3. Securing the grille (Fig. 10-7)
• Secure the grille to the main unit by tightening the previously installed two screws (with captive washer) as well as the two remaining screws (with captive washer).
  * Make sure that there are no gaps between the main unit and the grille or the grille and the ceiling.

Fixing gaps between the grille and the ceiling
With the grille attached, adjust the height of the main unit to close the gap.

Fig. 10-7

10.4.4. Wire connection (Fig. 10-8)
• Be sure to connect the unit to the connector (white, 10-pole). Next, attach the white glass tube that comes with the main unit so that the tube covers the connector. Close the opening of the glass tube with the fastener.
  * Make sure that there is no slack in the lead wire at the clamp of the main unit.

Warning:
If the connector is not covered with the glass tube, tracking resulting in fire may occur.

Fig. 10-8

10.3. Selection of the air outlets
For this grille the discharge direction is available in 11 patterns. Also, by setting the Remote controller to the appropriate settings, you can adjust the air-flow and speed. Select the required settings from the Table according to the location in which you want to install the unit.

1) Decide on the discharge direction pattern.
2) Be sure to set the remote controller to the appropriate settings, according to the number of air outlets and the height of the ceiling on which the unit will be installed.

Note:
For 3 and 2-directional, please use the air outlet shutter plate (option).

10.3. Selection of the air outlets
For this grille the discharge direction is available in 11 patterns. Also, by setting the Remote controller to the appropriate settings, you can adjust the air-flow and speed. Select the required settings from the Table according to the location in which you want to install the unit.

1) Decide on the discharge direction pattern.
2) Be sure to set the remote controller to the appropriate settings, according to the number of air outlets and the height of the ceiling on which the unit will be installed.

Note:
For 3 and 2-directional, please use the air outlet shutter plate (option).
10. Installing the grille

10.5. Locking the up/down airflow direction (Fig. 10-9)
The vanes of the unit can be set and locked in up or down orientations depending upon the environment of use.
- Set according to the preference of the customer.
- The operation of the fixed up/down vanes and all automatic controls cannot be performed using the remote controller. In addition, the actual position of the vanes may differ from the position indicated on the remote controller.
  ① Turn off the main power switch.
  ② Injuries and or an electrical shock may occur while the fan of the unit is rotating.
  ③ Disconnect the connector for the vane motor of the vent that you want to lock.
  ④ (While pressing the button, remove the connector in the direction indicated by the arrow as shown in the diagram.) After removing the connector, insulate it with tape.

10.6. Installing the wireless sensor (Fig. 10-10)
- Pull out the wireless sensor cable from the square hole in the corner panel of the refrigerant piping section of the main unit.
- Feed the cable through the electric component box of the main unit as shown in the illustration, and then connect it to CN90 on the control board. Adjust the length of the cable so the corner panel can be removed, and then secure the cable with the clamp.

10.7. Check
- Make sure that there is no gap between the unit and the grille, or between the grille and the surface of the ceiling. If there is any gap between the unit and the grille, or between the grille and the surface of the ceiling, it may cause dew to collect.
- Make sure that the wires have been securely connected.

10.8. Installing the intake grille (Fig. 10-11)
Note:
- When reinstalling the corner panels (each with a safety wire attached), connect the other end of each safety wire to the grille using a screw (4 pcs, \(4 \times 8\)) as shown in the illustration.
  * If the corner panels are not attached, they may fall off while the unit is operating.
  * Perform the procedure that is described in "11.2. Preparing to attach the grille" in reverse order to install the intake grille and the corner panel.
  * Multiple units can be installed with grille so that the position of the logo on each corner panel is consistent with the other units regardless of the orientation of the intake grille. Align the logo on the panel according to the wishes of the customer as shown in the diagram to the left. (The position of the grille can be changed.)
  ① Refrigerant piping of the main unit
  ② Drain piping of the main unit
  ③ Position of the corner panel when sent from the factory (logo attached).
  ④ Position of the levers on the intake grille when sent from the factory.
  * Although the clips can be installed in any of four positions, the configuration shown here is recommended.
  * It is not necessary to remove the intake grille when maintenance is performed on the electric component box of the main unit.
  ⑤ Receiver (Only PLP-6AA1LM Panel)
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1. 安全注意事项

1.1 安装前（环境）

1.1.1 安装前（环境）

注意：
切勿在不正常的环境中使用本机，如把空调机安装在温度高于40℃的房间内使用本机，就会导致本机发生故障，甚至发生火警。切勿把空调机安装在没有足够风量的房间内使用，空气流量太小，本机就会发生故障。

1.1.2 环境

注意：
切勿把空调机安装在湿气的地方，如空调机被淋湿或湿气很重的地方，就会导致本机发生故障，甚至发生火警。

1.2 安装前的准备

注意：
切勿把空调机安装在湿气很重的地方，如空调机被淋湿或湿气很重的地方，就会导致本机发生故障，甚至发生火警。

1.3 进行电工作业

注意：
切勿在潮湿的地方使用，如空调机被淋湿或湿气很重的地方，就会导致本机发生故障，甚至发生火警。

1.4 开始运行前

注意：
切勿在不正常的情况下使用，如空调机被淋湿或湿气很重的地方，就会导致本机发生故障，甚至发生火警。
2. 安装位置

请参考室外机组的安装手册。

3. 安装室内机组

3.1. 检查室内机组附件（Fig. 3-1）

室内机组必须提供以下附件。

<table>
<thead>
<tr>
<th>零件名称</th>
<th>数量</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>1个</td>
</tr>
<tr>
<td>2</td>
<td>4个</td>
</tr>
<tr>
<td>3</td>
<td>6个</td>
</tr>
<tr>
<td>4</td>
<td>2个</td>
</tr>
<tr>
<td>5</td>
<td>4个</td>
</tr>
<tr>
<td>6</td>
<td>1个</td>
</tr>
<tr>
<td>7</td>
<td>1个</td>
</tr>
</tbody>
</table>

3.2. 天花板开口及挂环螺栓的安装位置（Fig. 3-2）

- 使用安装螺栓（包含装的长度）和标准尺寸的安装螺栓，与格栅一并附上，在天花板上钻一个洞，使机组可以如图所示安装，（使用螺栓和标准尺的尺寸已由设计。）
- 使用前，请将安装托板和膨胀片的尺寸，因为它们会因温度及湿度的变化而改变。
- 天花板开口的尺寸可以限定在下图所示的范围之内，因此，应使主机组在天花板的中心位置，使前后左右对称，与天花板边缘之间的距离相等。
- 使用M10（5/8”）挂环螺栓。
- 挂环螺栓可在当地购买。
- 仔细安装，确保天花板与格栅板之间，主机与格栅板之间均无缝隙。
  - 主机的外延
  - 格栅
  - 天花板开口
  - 格栅板的外壳
  - 格栅板
  - 天花板
  - 多功能盖板（黑色）
  - 所有周边边缘

* 注意：主机的天花板与天花板之间必须保持50–150毫米的距离。

<table>
<thead>
<tr>
<th>型号</th>
<th>C</th>
<th>D</th>
</tr>
</thead>
<tbody>
<tr>
<td>RP3545.3</td>
<td>241</td>
<td>250</td>
</tr>
<tr>
<td>RP3545.6</td>
<td>261</td>
<td>266</td>
</tr>
</tbody>
</table>
3. 安装室内机组

3.3. 支管孔与进气孔 (Fig. 3-3)

在安装时，如有需要，可使用位于下出风位置的管理员（打开）。

亦可在选购时将多功能薄膜与一个新风进气孔一起订购。

备注：
在某些条件下，数字代表的尺寸，但不包括设备的多功能薄膜尺寸。

在安装前，必须经过支管安装。否则，可能产生冷凝和漏水的现象。

① 出风口
② 支管接头
③ 冷凝水
④ 进风管
⑤ 天花板

3.4. 悬挂结构（加厚悬挂位置的结构）(Fig. 3-4)

安装时，若室内机安装在天花板不准确或不足时，应加装防震、防滑、防坠、防尘等装置。

1. 天花板的结构由传统直接安装而形成，室内机安装在天花板上，防止因安装不当而造成漏水。
2. 装设空调机的防震架必须稳固，要求：螺栓与螺帽之间的距离必须在80厘米以内，螺杆外径至少9毫米，夹紧螺杆的尺寸和夹紧螺杆的尺寸为10（9/10）。”（夹紧螺杆没有通用机架。）
3. 用吊带将室内机固定在天花板上，或利用铁杆或木杆安装悬挂结构。

3.5. 悬挂机的步骤 (Fig. 3-5)

按照图中所示步骤安装。

1. 安装时，应使用吊杆、吊钩、螺栓（或绳索）、螺母（或螺母）的支吊架连接固定。
2. 用螺栓将支吊架固定在天花板上，然后用吊杆将吊杆固定在天花板上，最后用吊杆将室内机悬挂在吊杆上。
3. 按图所示步骤安装。

3.6. 确定机架位置，并用紧固螺丝锁定（Fig. 3-7）

按照图中所示步骤，在安装机架时，应使用紧固螺丝锁紧。若机架位置不正确，或已经安装的机架在完成后仍需修正时，按照图中所示步骤安装。

有关详细安装方法，请参照安装说明书。
4. 安装管道

4.1 室内机组的冷凝剂管和排水管的安装位置

在图中标注的数字代表主机的尺寸，但不包括连接的多功能罩壳尺寸。图4-1

① 排水管
② 天花板
③ 机箱
④ 冷凝管（液体）
⑤ 冷凝管（气体）
⑥ 水泵
⑦ 主机

在安装连接的多功能罩壳时，则应在图中标注的尺寸加上15毫米。

5. 冷凝剂管接管工作

5.1 连接管道（图5-1）

- 当使用新制的钢管时，使用优等的绝缘材料包覆液体和气体管道（低热导数100度或更高，厚皮12毫米或以上）。
- 使用普通空调的室内部分应使用聚乙烯泡绝缘材料包裹（厚皮0.81，厚度9毫米或以上）。
- 在管和装置表面涂上一层薄层冷粘剂，然后将其接头管扣。
- 使用两个扳手，保持稳态接管。
- 使用提供的冷凝剂管接地线，使室内机的连接件接地，保持接地进行接地。

③ 广口螺帽打紧别紧

<table>
<thead>
<tr>
<th>管接头外径（毫米）</th>
<th>管接头外径（毫米）</th>
<th>行程长度（毫米）</th>
</tr>
</thead>
<tbody>
<tr>
<td>Ø 6.35</td>
<td>12</td>
<td>14-18</td>
</tr>
<tr>
<td>Ø 9.52</td>
<td>16</td>
<td>34-42</td>
</tr>
<tr>
<td>Ø 11.7</td>
<td>20</td>
<td>60-80</td>
</tr>
<tr>
<td>Ø 13.08</td>
<td>25</td>
<td>100-120</td>
</tr>
<tr>
<td>Ø 15.00</td>
<td>30</td>
<td>150-170</td>
</tr>
</tbody>
</table>

② 将冷凝剂管在整根螺口管的表面下。
③ 如下表所示安装广口螺帽。

5.2 室内机组（图5-2）

适用于非冷凝剂管道的热电导线。

① 制冷装置中无插入热电导线。请确定温控的阶梯式设备开关。
② 制冷装置中的热电导线包括热电导线。请确定温控的阶梯式设备开关。
③ 制冷装置中插入热电导线。包覆包覆的绝缘材料。（不包括末端包覆20毫米的绝缘材料）。
④ 如有连接线切割至室内机用。请确认温控的测试接管头是否加温。（确保连接到室内机的冷凝剂管在连接前加温）

有关连接管的规格，请参考室外机组的安装手册。

5.3 双管/三管组合

请参考室外机组的安装手册。
6. 安装排水管

6.1. 安装排水管 (Fig. 6-1)
- 使用PS05/01或PS02 PVC管进行排水管道布置，并确保设置1/100或更大的斜度。
- 每段使用氯丁橡胶软管连接管端头接。
- 采用每段的排水平管，改变管路排气方向。
- 选型管
- 选用软管
- 检查管道尺寸及量差，适用不同管径尺寸。
- 管道尺寸1/100或以上。
- 每段使用软胶
- 排气管
- 采用软管

分段管道布置
- 外包PVC软
- 选型管径
- 管道尺寸1/100或以上。
- 每段使用软胶
- 排气管
- 采用软管

1. 将排水管路（本机提供）连接至接头处。（Fig. 6-2）
2. 安装接头可以转换的排水管 PVC管，外包PS2。
3. 使用圆柱形管段（PVC管，外包PS2软管）
4. 检查是否能顺利排水
5. 使用热固性橡胶排水管段，然后使用软管固定，热固性橡胶和软管随随机提供。

7. 电力工作

7.1. 室内机组 (Fig. 7-1)
1. 装于两个电气箱内
2. 将电源电缆控制箱分别穿穿过图中的线缆入口。
3. 不能拖地平整铺设。
4. 应考虑到灰尘间、悬挂电气箱的情况，为电线留空间。
   （大约50至100毫米）
5. 电缆线留入口
6. 防水槽入口
7. 电缆线
8. 电缆线
9. 防火板
10. 电缆线
11. 防火板（P18型号）
12. 电缆线
13. 防火板
14. 电缆线
15. 电缆线

<table>
<thead>
<tr>
<th>室内机组型号</th>
<th>PLA</th>
<th>PLA</th>
</tr>
</thead>
<tbody>
<tr>
<td>室内机组输入功率/设备</td>
<td>*1</td>
<td>-N</td>
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<tr>
<td>机组</td>
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<td></td>
</tr>
<tr>
<td>室内机组输入功率/设备（变频器）</td>
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<td>2 N</td>
</tr>
<tr>
<td>机组</td>
<td>2 x 20 A</td>
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<tr>
<td>室内机组输入功率/设备（变频器）</td>
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<tr>
<td>机组</td>
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<td>2 N</td>
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<td>机组</td>
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<td>2 N</td>
</tr>
<tr>
<td>机组</td>
<td>2 x 20 A</td>
<td></td>
</tr>
</tbody>
</table>

*1 使用每段橡胶管的总长度
*2 使用每段橡胶管的总长度
*3 使用每段橡胶管的总长度

**备注：**
1. 电缆尺寸应符合适用于的当地和国际法规。
2. 电缆线与室内机组/室外机间连接线不应用聚氯乙烯丁二烯橡胶的可弯曲电线（设计245 IEC 57）
3. 安装一条或其他的接地连接和相关的接地电缆。
7. 电力工作

7.2. 遥控器

7.2.1. 适用于有线遥控器

1) 安装步骤

(1) 为遥控器选择一个安装位置。(Fig. 7-2)

温度传感器装置在遥控器和空调机组上。

(2) 安装步骤如下所示：

- 找到开关盒
- 遥控器接线端子
- 用螺丝固定
- 将开关盒安装在墙上

(3) 对于墙上安装的直接安装，应选择下列方式之一：

- 将遥控器安装在开关盒上，以便可以拆卸并更换
- 将遥控器安装在开关盒上的开关盒

2) 连接步骤（Fig. 7-4）

(1) 将遥控器连接到遥控盒上。

(2) 当在相同温控中使用两个遥控器时，请设定表中所示的两个开关式开关。

3) 连接步骤（Fig. 7-5）

(3) 设定（Fig. 7-6）

7.2.2. 适用于无线遥控器

1) 安装步骤

- 遥控器不可安装在直接室内阳光的地方。
- 转向无阳光的地方。
- 遥控器不可在冷（热）房间中使用。
- 可以安装操作遥控器的地方。
- 小心不要用水洗遥控器。

2) 安装步骤（Fig. 7-8）

(2) 用两个无线遥控和遥控器支架装配在最佳之处。

(3) 将遥控器的电池安装在支架内。

(4) 有开关

(5) 取出开关

(6) 装入开关

(7) 取出开关

(8) 装入开关

(9) 信号可于接收器中心线左右各50度范围内最远的距离在约7米（直线传送）的位置。

3) 设定（Fig. 7-9）

(2) 设定（Fig. 7-9）

(3) 信号可于接收器中心线左右各50度范围内最远的距离在约7米（直线传送）的位置。
7. 电力工作

4) 各机组配置一个遥控器（Fig. 7-7）

各机组只须通过所配置的遥控器进行操作。

5) 无线遥控器或对号码设定操作

① 按住[MODE]键数秒，将出现设定菜单，即设定对号码。
② 按[①②③④⑤⑥]键调整对号码。
③ 按住[①②③④⑤⑥]键数秒，将出现设定菜单，即设定对号码。
④ 按[①②③④⑤⑥]键调整对号码。
⑤ 按住[①②③④⑤⑥]键数秒，将出现设定菜单，即设定对号码。
⑥ 按[①②③④⑤⑥]键调整对号码。
⑦ 按住[①②③④⑤⑥]键数秒，将出现设定菜单，即设定对号码。
⑧ 按[①②③④⑤⑥]键调整对号码。
⑨ 按住[①②③④⑤⑥]键数秒，将出现设定菜单，即设定对号码。
⑩ 按[①②③④⑤⑥]键调整对号码。
⑪ 按住[①②③④⑤⑥]键数秒，将出现设定菜单，即设定对号码。
⑫ 按[①②③④⑤⑥]键调整对号码。
⑬ 按住[①②③④⑤⑥]键数秒，将出现设定菜单，即设定对号码。
⑭ 按[①②③④⑤⑥]键调整对号码。
⑮ 按住[①②③④⑤⑥]键数秒，将出现设定菜单，即设定对号码。
⑯ 按[①②③④⑤⑥]键调整对号码。
⑰ 按住[①②③④⑤⑥]键数秒，将出现设定菜单，即设定对号码。
⑱ 按[①②③④⑤⑥]键调整对号码。
⑲ 按住[①②③④⑤⑥]键数秒，将出现设定菜单，即设定对号码。
⑳ 按[①②③④⑤⑥]键调整对号码。

<table>
<thead>
<tr>
<th>无线遥控器或对号码</th>
<th>室外机对应的电压值</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>2</td>
</tr>
<tr>
<td>2</td>
<td>3</td>
</tr>
<tr>
<td>3</td>
<td>4</td>
</tr>
</tbody>
</table>

7.3. 功能设定

7.3.1 适用于有线遥控器（Fig. 7-8）

改变设定值

1) 按[①②③④⑤⑥]键调整设定值。
2) 按[①②③④⑤⑥]键退出设定模式。
3) 按[①②③④⑤⑥]键进入设定模式。

7.3.2 适用于无线遥控器（Fig. 7-9）

改变设定值

1) 按[①②③④⑤⑥]键调整设定值。
2) 按[①②③④⑤⑥]键退出设定模式。
3) 按[①②③④⑤⑥]键进入设定模式。
4) 按[①②③④⑤⑥]键调整设定值。
5) 按[①②③④⑤⑥]键退出设定模式。
6) 按[①②③④⑤⑥]键进入设定模式。
7) 按[①②③④⑤⑥]键调整设定值。
8) 按[①②③④⑤⑥]键退出设定模式。
9) 按[①②③④⑤⑥]键进入设定模式。
10) 按[①②③④⑤⑥]键调整设定值。

7.3.3 适用于设定功能

改变设定值

1) 按[①②③④⑤⑥]键调整设定值。
2) 按[①②③④⑤⑥]键退出设定模式。
3) 按[①②③④⑤⑥]键进入设定模式。
4) 按[①②③④⑤⑥]键调整设定值。
5) 按[①②③④⑤⑥]键退出设定模式。
6) 按[①②③④⑤⑥]键进入设定模式。
7) 按[①②③④⑤⑥]键调整设定值。
8) 按[①②③④⑤⑥]键退出设定模式。
9) 按[①②③④⑤⑥]键进入设定模式。
10) 按[①②③④⑤⑥]键调整设定值。

备注

在安装维修后更改任何功能设置时，必须在功能表的“设定”栏内，用标记记录所作变更。
7. 电力工作

功能表
选择机箱型号500

<table>
<thead>
<tr>
<th>功能</th>
<th>顺序</th>
<th>状态</th>
<th>序列号</th>
<th>备注</th>
</tr>
</thead>
<tbody>
<tr>
<td>电源电压自动恢复</td>
<td>01</td>
<td>电源电压自动恢复</td>
<td>2</td>
<td>可使用</td>
</tr>
<tr>
<td>室内温度检测</td>
<td>02</td>
<td>室内温度检测</td>
<td>1</td>
<td>可使用</td>
</tr>
<tr>
<td>CO2浓度的连续性</td>
<td>03</td>
<td>CO2浓度的连续性</td>
<td>2</td>
<td>可使用</td>
</tr>
<tr>
<td>电源电压1k</td>
<td>04</td>
<td>电源电压1k</td>
<td>1</td>
<td>可使用</td>
</tr>
<tr>
<td>自动模式（仅适用于PL320）</td>
<td>05</td>
<td>自动模式（仅适用于PL320）</td>
<td>2</td>
<td>可使用</td>
</tr>
</tbody>
</table>

选择机箱型号的601或所有机组AJK [有线遥控器] / OK [无线遥控器]

<table>
<thead>
<tr>
<th>功能</th>
<th>状态</th>
</tr>
</thead>
<tbody>
<tr>
<td>变频器编号</td>
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<td>变频器控制</td>
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<tr>
<td>变频器控制模式</td>
<td>08</td>
</tr>
<tr>
<td>变频器输出电流</td>
<td>09</td>
</tr>
<tr>
<td>变频器输出电压</td>
<td>10</td>
</tr>
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<td>变频器输出电压</td>
<td>11</td>
</tr>
<tr>
<td>变频器输出电压</td>
<td>12</td>
</tr>
</tbody>
</table>

8. 运行测试

8.1. 在试运转前
- 完成室外机组和室内机组的安装、接线和接管工作后，请检查冷却剂有否泄漏、电源线或控制线是否正确。以及电源的某一相是否有断开。
- 使用500伏兆欧表测量电源线和控制线之间阻抗绝缘电阻应不小于或等于1.0MΩ。

8.2. 运行测试

8.2.1. 使用有线遥控器（Fig.8-1）
- 试验前，将电源及断开至少1小时。
- 按[TEST]（测试）按钮两次，显示“试运转”液晶显示。
- 按[Mono select]（模式选择）按钮，选择“试运转”模式。
- 通过调节旋钮改变室内机的温度。
- 将空调设置为“自动”模式。
- 按[Auto]（自动）或[Manual]（手动）按钮，选择空调运行模式。
- 选择室内机的模式。
- 按[OFF]（关闭）或[ON]按钮，停止试运转。
- 按[STOP]（停止）按钮，停止试运转。

8.2.2. 使用无线遥控器（Fig.8-2）
- 将空调设置为“自动”模式。
- 按[START]（启动）按钮，启动空调。
- 选择室内机的模式。
- 按[OFF]（关闭）按钮，关闭空调。
- 按[STOP]（停止）按钮，停止试运转。
- 按[RESET]（复位）按钮，恢复空调操作。

备注：
- 不要在光纤、FAN（风扇），DRY（干吹）或AUTO（自动）模式下运行。
8. 运行测试

8.2.3. 使用室外机内的SW4

请参考室外机的安装手册。

8.3. 自行检查

8.3.1. 有线遥控器（Fig. 8-3）

(1) 接通主电源。
(2) 按下[SLEEP]键。注意显示。
(3) 输入系统控制，使用[TEMP]键（设定）按固定设定冷冻器输出。
(4) 按下[ON/OFF]键（温度/湿度）按固定，停止自检。
(5) [CHECK]键输入检查。
(6) [IC]键输入检查。
(7) [HC]键输入检查。
(8) [HC]键输入检查。
(9) [IC]键输入检查。
(10) [HC]键输入检查。
(11) [HC]键输入检查。
(12) [HC]键输入检查。

8.3.2. 无线遥控器（Fig. 8-4）

1. 按下[CHECK]键（按两次）。
   (当遥控器显示的（此时对这项操作。）)
2. [CHECK]键输入检查。
3. [CHECK]键输入检查。
4. 按下[ON/OFF]键（温度/湿度）按固定，停止自检。

Fig. 8-3

有关每个检查代码的说明，请参考下表。

<table>
<thead>
<tr>
<th>检查代码</th>
<th>检查内容</th>
<th>遥控器声</th>
<th>操作指示（IG）</th>
</tr>
</thead>
<tbody>
<tr>
<td>P1</td>
<td>遥控器输出</td>
<td>音响声X1</td>
<td>点亮1秒X1</td>
</tr>
<tr>
<td>P2</td>
<td>遥控器输出</td>
<td>音响声X2</td>
<td>点亮2秒X2</td>
</tr>
<tr>
<td>P3</td>
<td>遥控器输出</td>
<td>音响声X3</td>
<td>点亮3秒X3</td>
</tr>
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<td>P4</td>
<td>遥控器输出</td>
<td>音响声X4</td>
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<td>音响声X6</td>
<td>点亮6秒X6</td>
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<td>P7</td>
<td>遥控器输出</td>
<td>音响声X7</td>
<td>点亮7秒X7</td>
</tr>
<tr>
<td>P8</td>
<td>遥控器输出</td>
<td>音响声X8</td>
<td>点亮8秒X8</td>
</tr>
<tr>
<td>P9</td>
<td>遥控器输出</td>
<td>音响声X9</td>
<td>点亮9秒X9</td>
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<tr>
<td>UO-UP</td>
<td>室外机控制</td>
<td>音响声X1</td>
<td>点亮1秒X1</td>
</tr>
<tr>
<td>F1-FA</td>
<td>室外机控制</td>
<td>音响声X2</td>
<td>点亮2秒X2</td>
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<tr>
<td>E1-01</td>
<td>室外机控制</td>
<td>音响声X3</td>
<td>点亮3秒X3</td>
</tr>
<tr>
<td>E2-02</td>
<td>室外机控制</td>
<td>音响声X4</td>
<td>点亮4秒X4</td>
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<td>E3-03</td>
<td>室外机控制</td>
<td>音响声X5</td>
<td>点亮5秒X5</td>
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<td>E4-04</td>
<td>室外机控制</td>
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<td>室外机控制</td>
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<td>点亮9秒X9</td>
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<tr>
<td>FFFF</td>
<td>室外机</td>
<td>音响声</td>
<td>不点亮</td>
</tr>
</tbody>
</table>

在无线遥控器上
1. 输入系统控制的持续发出噪声。
2. 运行过程中。
3. 在有线遥控器上。
4. 检查的细节于液晶显示屏上显示出来。
5. 如进行以上试运转后仍不正常操作，请参考下表消除故障原因。

<table>
<thead>
<tr>
<th>有线遥控器</th>
<th>LED-2（室内机控制）</th>
<th>说明</th>
</tr>
</thead>
<tbody>
<tr>
<td>H0</td>
<td>LED1亮起后LED2熄灭，然后只有LED2亮起（正常操作）</td>
<td>开启电源后2分钟，遥控器图系统显示功能不正常操作，(正常操作)</td>
</tr>
<tr>
<td>H0</td>
<td>LED1亮起后LED2熄灭，然后只有LED2亮起（正常操作）</td>
<td>开启电源后2分钟，遥控器图系统显示功能不正常操作，(正常操作)</td>
</tr>
<tr>
<td>H1</td>
<td>LED1亮起后LED2熄灭，然后只有LED2亮起（正常操作）</td>
<td>开启电源后2分钟，遥控器图系统显示功能不正常操作，(正常操作)</td>
</tr>
<tr>
<td>H2</td>
<td>LED1亮起后LED2熄灭，然后只有LED2亮起（正常操作）</td>
<td>开启电源后2分钟，遥控器图系统显示功能不正常操作，(正常操作)</td>
</tr>
</tbody>
</table>

8.3.3. 无线遥控器（Fig. 8-4）

1. 按下[CHECK]键（按两次）。
2. 按下[CHECK]键（按两次）。
3. 按下[CHECK]键（按两次）。
4. 按下[ON/OFF]键（温度/湿度）按固定，停止自检。

Fig. 8-4

有关每个检查代码的说明，请参考下表。

<table>
<thead>
<tr>
<th>检查代码</th>
<th>检查内容</th>
<th>遥控器声</th>
<th>操作指示（IG）</th>
</tr>
</thead>
<tbody>
<tr>
<td>P1</td>
<td>遥控器输出</td>
<td>音响声X1</td>
<td>点亮1秒X1</td>
</tr>
<tr>
<td>P2</td>
<td>遥控器输出</td>
<td>音响声X2</td>
<td>点亮2秒X2</td>
</tr>
<tr>
<td>P3</td>
<td>遥控器输出</td>
<td>音响声X3</td>
<td>点亮3秒X3</td>
</tr>
<tr>
<td>P4</td>
<td>遥控器输出</td>
<td>音响声X4</td>
<td>点亮4秒X4</td>
</tr>
<tr>
<td>P5</td>
<td>遥控器输出</td>
<td>音响声X5</td>
<td>点亮5秒X5</td>
</tr>
<tr>
<td>P6</td>
<td>遥控器输出</td>
<td>音响声X6</td>
<td>点亮6秒X6</td>
</tr>
<tr>
<td>P7</td>
<td>遥控器输出</td>
<td>音响声X7</td>
<td>点亮7秒X7</td>
</tr>
<tr>
<td>P8</td>
<td>遥控器输出</td>
<td>音响声X8</td>
<td>点亮8秒X8</td>
</tr>
<tr>
<td>P9</td>
<td>遥控器输出</td>
<td>音响声X9</td>
<td>点亮9秒X9</td>
</tr>
<tr>
<td>UO-UP</td>
<td>室外机控制</td>
<td>音响声X1</td>
<td>点亮1秒X1</td>
</tr>
<tr>
<td>F1-FA</td>
<td>室外机控制</td>
<td>音响声X2</td>
<td>点亮2秒X2</td>
</tr>
<tr>
<td>E1-01</td>
<td>室外机控制</td>
<td>音响声X3</td>
<td>点亮3秒X3</td>
</tr>
<tr>
<td>E2-02</td>
<td>室外机控制</td>
<td>音响声X4</td>
<td>点亮4秒X4</td>
</tr>
<tr>
<td>E3-03</td>
<td>室外机控制</td>
<td>音响声X5</td>
<td>点亮5秒X5</td>
</tr>
<tr>
<td>E4-04</td>
<td>室外机控制</td>
<td>音响声X6</td>
<td>点亮6秒X6</td>
</tr>
<tr>
<td>E5-05</td>
<td>室外机控制</td>
<td>音响声X7</td>
<td>点亮7秒X7</td>
</tr>
<tr>
<td>E6-06</td>
<td>室外机控制</td>
<td>音响声X8</td>
<td>点亮8秒X8</td>
</tr>
<tr>
<td>E7-07</td>
<td>室外机控制</td>
<td>音响声X9</td>
<td>点亮9秒X9</td>
</tr>
<tr>
<td>FFFF</td>
<td>室外机</td>
<td>音响声</td>
<td>不点亮</td>
</tr>
</tbody>
</table>

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8. 运行测试

备注:
取掉功能选择后将不能操作约30秒钟。（正确操作）
有关遥控器上的提供的LED(图10-1,2,3,4,5)说明，请参考以下简表。

<table>
<thead>
<tr>
<th>LED1(为墙板接线)</th>
<th>显示是否接收接收频率,请确认该LED终端点。</th>
</tr>
</thead>
<tbody>
<tr>
<td>LED2(为遥控器供电)</td>
<td>显示有无与遥控器连接。只有室内机与连接至遥控器为“O”的安装机或时才会亮。</td>
</tr>
<tr>
<td>LED3(联系室内和室外机)</td>
<td>显示室内和室外机间的联系状况，请确认LED终端点。</td>
</tr>
</tbody>
</table>

8.4. 检查排水装置（Fig. 8-5）
- 在试运行时，务必将水正确排出并确保接头处无漏水。
- 在其它空调（冷却/干燥）季节期间，安装或应始终进行此项检查。
- 采用接通。(a)在完成前的清洗时的开关其余作业以前进行此项检查。
- 检查水口开，请确认供水装置和安装大约1000毫升的水，当水时，不得将水排入内机排水口内。
- 在将接通模式切換至试运行模式之后，应确保水通过排水口排出。
- 在检查之后，应保持干燥，不得使其吹入，并且切断主电源开关。
- 再确认水排出之后，应清洗安装余水。

9. 系统控制

请参考室外机组的安装手册。

10. 安装格栅

10.1. 检查零件是否齐全（Fig. 10-1）
- 检查包含本说明书所列零件。

<table>
<thead>
<tr>
<th>零件名称</th>
<th>数量</th>
<th>备注</th>
</tr>
</thead>
<tbody>
<tr>
<td>格栅</td>
<td>1</td>
<td>1000 x 900 (毫米)</td>
</tr>
<tr>
<td>带型铁环</td>
<td>4</td>
<td>35 x 9 x 25</td>
</tr>
<tr>
<td>铁环</td>
<td>1</td>
<td>(分可接部分)</td>
</tr>
<tr>
<td>铁环杆</td>
<td>2</td>
<td>2 x 2</td>
</tr>
<tr>
<td>铁环</td>
<td>4</td>
<td>4 x 4</td>
</tr>
<tr>
<td>圆弧连接组</td>
<td>1</td>
<td>适用于PFL-5AXAM</td>
</tr>
<tr>
<td>圆弧连接组</td>
<td>1</td>
<td>适用于PFL-5AXAM</td>
</tr>
</tbody>
</table>

10.2. 准备连接格栅（Fig. 10-2）
- 有关零件箱中附件的注意事项：检查调整装置和天花板之间的关系位置，如果没有将本机品部位放入天花板，则可能会影响过滤器的流通余气。
- 请确认天花板开孔与安装部位的尺寸：860 x 860 - 910 x 910 
- 确定在1:1-2毫米之间的范围进行安装，如果没有依据此范围安装，则可能会引起泄漏。
- 主机
- 天花板
- 安装的① (插入螺丝)，② (插入螺丝) ③ 天花板开孔尺寸

10.2.1. 拆下进气格栅（Fig. 10-3）
- 将前盖(1)方向滑动至气格栅的两侧，将格栅格栅打开。
- 松开固定格栅的扣扣。
- 请确认开是气格栅的扣扣。
- 如前盖(2)方向所示，在将格栅位于“打开”位置，从格栅上卸下进气格栅的转轴。

10.2.2. 拆下后部面板（Fig. 10-4）
- 从后部面板的顶部拆下螺钉。如图3方向滑动后部面板，并将其取下。
- 用以圆弧
- 用以圆弧
- 用以圆弧
- 用以圆弧
- 用以圆弧
- 用以圆弧
- 螺钉
10. 安装格栅

10.3. 送风口的选择
本格栅的送风口方向有4种，可依据设定位置的设定，调节气流和角度。

1. 选择送风口方向
2. 必须依据送风方向和将要安装的天花板高度、将遥控器设定至正确位置。

备注：
2和3号的出气口，请使用出气口格栅（选购件）。

10.4. 安装格栅

10.4.1. 准备 (Fig. 10-5)
- 如图所示，用指针将两枚螺钉拧入主机（在排水管的侧与另一端的侧）。

10.4.2. 临时安装格栅 (Fig. 10-6)
- 将主机的角部接管部分与格栅上由A和B标出的两个孔对齐，并使用钟形孔罩时将
  - 确保格栅的导管没有被格栅和主机夹住。

10.4.3. 固定格栅 (Fig. 10-7)
- 通过拧紧前已装的两个带弹簧的螺钉以及金针两个带弹簧的螺钉，将格栅固定至主
  - 确保在主机和格栅之间或是格栅和天花板之间没有空隙。

10.4.4. 接线 (Fig. 10-8)
- 检查主机回路的电源接头（白色、红色），接下线，连接插座两端恰好为白色或红色。
- 检查主机回路中的电线没有损环。
- 警告：
  如果没有用绝缘管套住接头，可能因漏电而引发火灾。

Fig. 10-5
Fig. 10-6
Fig. 10-7
Fig. 10-8
10. 安装格栅

10.5. 锁定上下出风方向（Fig. 10-9）

根据使用的环境可以设置主机的叶片和锁定叶片的方向。向上的方向。

- 根据使用的环境设置。
- 决定锁定叶片的锁定。
- 叶片的实际位置可能与锁定叶片的位置不同。

10.6. 安装无线感应器（Fig. 10-10）

- 在主机的设置为环境温度的控制方式。将开关拉出之上的感应器的电流。
- 如图所示，将电感器连在主机的电气接线盒，然后连接到在控制板的NC06，调节电流的长度，以便可以移动角度的面板，然后用线夹固定。

10.7. 检查

- 务必使装置在模板之间的距离与天花板表面之间的距离同样。
- 务必使模板与天花板表面之间，以及模板与模板之间，存在间隙。
- 务必已牢固地连接电线。

10.8. 安装进气格栅（Fig. 10-11）

- 使模板与模板之间，以及模板与天花板表面之间的距离同样。
- 使模板与模板之间，以及模板与天花板表面之间的距离同样。
- 使模板与模板之间，以及模板与天花板表面之间的距离同样。
- 使模板与模板之间，以及模板与天花板表面之间的距离同样。
Please be sure to put the contact address/telephone number on this manual before handing it to the customer.