For safe and correct use, read this manual and the outdoor unit installation manual thoroughly before installing the air-conditioner unit.
Contents
1. Safety precautions .......................................................... 2
2. Installation location ......................................................... 3
3. Installing the indoor unit .................................................. 3
4. Installing the refrigerant piping ........................................... 5
5. Drainage piping work ....................................................... 6
6. Electrical work .............................................................. 7
7. Test run ......................................................................... 14
8. System control ............................................................... 17
9. Installing the grille .......................................................... 17
10. Easy maintenance function ............................................... 19

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:
- 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 install the unit securely. An incorrectly installed unit may fall down and cause damage or injuries.
- Ventilate the room if refrigerant leaks during operation. If refrigerant comes into contact with a flame, poisonous gases will be released.

Caution:
- 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.
- 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.

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), 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.

Warning:
- Do not install the unit more than 12 hours before starting operation. Starting operation just after turning on the power switch can severely damage the internal parts.
- 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.

1.2. 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 install the unit securely. An incorrectly installed unit may fall down and cause damage or injuries.
- 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.
- 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 the refrigerant pipes with bare hands during operation. Rotating, hot, or high voltage parts can cause injuries.
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></td>
</tr>
<tr>
<td>Pipe cover (for refrigerant piping joint)</td>
<td>1</td>
</tr>
<tr>
<td>Small diameter</td>
<td>1</td>
</tr>
<tr>
<td>Large diameter</td>
<td>1</td>
</tr>
<tr>
<td>Band</td>
<td>8</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></td>
</tr>
<tr>
<td>Flare nut 1/4F(P60)</td>
<td>1</td>
</tr>
</tbody>
</table>

Fig. 3-1

3.2. Ceiling openings and suspension bolt installation locations (Fig. 3-2)
Caution:
Install the indoor unit at least 2.5m above floor or grade level.
For appliances not accessible to the general public.

- 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 is 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 Fig.3-2; 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
  - Ceiling
  - Ceiling opening
  - Multi function casement (option)
  - Outer side of Grille
  - Entire periphery
  - Drainage pipe
  - Ceiling
  - Grille
  - Refrigerant pipe (liquid)
  - Refrigerant pipe (gas)
  - Water supply inlet
  - Main unit
*Note that the space between ceiling panel of the unit and ceiling slab, etc. must be 10 to 15 mm.
* When the optional multi-functional casement is installed, add 135 mm to the dimensions marked on the figure.

<table>
<thead>
<tr>
<th>Models</th>
<th>C</th>
<th>D</th>
</tr>
</thead>
<tbody>
<tr>
<td>35, 50, 60, 71</td>
<td>241</td>
<td>258</td>
</tr>
<tr>
<td>100, 125, 140</td>
<td>281</td>
<td>298</td>
</tr>
</tbody>
</table>

Fig. 3-2

3.3. 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. 3-3)
- 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.

Fig. 3-3
3. Installing the indoor unit

3.4. Branch duct hole and fresh air intake hole (Fig. 3-4)
At the time of installation, use the duct holes (cut out) located at the positions shown in Fig 3-4, 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 15 mm to the dimensions marked on the figure.
When installing the branch ducts, be sure to insulate adequately. Otherwise condensation and dripping may occur.

3.5. Suspension structure (Give site of suspension strong structure) (Fig. 3-5)
- 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 slanted ceiling, attach a pillar between the ceiling and the grille and set so that the unit is installed horizontally.

3.6. Unit suspension procedures (Fig. 3-6)
Suspension structure (Give site of suspension strong structure) (Fig. 3-5)

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

3.7. Confirming the position of main unit and tightening the suspension bolts (Fig. 3-8)
- 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.

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.
4. Installing the refrigerant piping

4.1. Precautions
For devices that use R410A refrigerant
• Use ester oil, ether oil or alkylbenzene oil (small amount) as the refrigeration oil applied to the flared sections.
• Use C1220 copper phosphorus for copper and copper alloy seamless pipes, to connect the refrigerant pipes. Use refrigerant pipes with the thicknesses specified in the table below. Make sure the insides of the pipes are clean and do not contain any harmful contaminants such as sulfuric compounds, oxidants, debris, or dust.

Warning:
When installing or moving the air conditioner, use only the specified refrigerant (R410A) to charge the refrigerant lines. Do not mix it with any other refrigerant and do not allow air to remain in the lines. Air enclosed in the lines can cause pressure peaks resulting in a rupture and other hazards.

<table>
<thead>
<tr>
<th>RP35, 50</th>
<th>RP60-140</th>
</tr>
</thead>
<tbody>
<tr>
<td>Liquid pipe</td>
<td>e6.35 thickness 0.8 mm</td>
</tr>
<tr>
<td>Use pipe</td>
<td>e12.7 thickness 0.8 mm</td>
</tr>
</tbody>
</table>

• Do not use pipes thinner than those specified above.

4.2. 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 nut tightening torque</th>
</tr>
</thead>
<tbody>
<tr>
<td>Copper pipe O.D. (mm)</td>
</tr>
<tr>
<td>e6.35</td>
</tr>
<tr>
<td>e6.35</td>
</tr>
<tr>
<td>e9.52</td>
</tr>
<tr>
<td>e12.7</td>
</tr>
<tr>
<td>e15.88</td>
</tr>
<tr>
<td>e19.05</td>
</tr>
</tbody>
</table>

Apply refrigerating machine oil over the entire flare seal surface.
Use correct flare nut meeting the pipe size of the outdoor unit.

Available pipe size

<table>
<thead>
<tr>
<th>Liquid side</th>
<th>RP35, 50</th>
<th>RP60</th>
<th>RP71-140</th>
</tr>
</thead>
<tbody>
<tr>
<td>e6.35</td>
<td>□</td>
<td>□</td>
<td>□</td>
</tr>
<tr>
<td>e9.52</td>
<td>□</td>
<td>□</td>
<td>□</td>
</tr>
<tr>
<td>Gas side</td>
<td>□</td>
<td>□</td>
<td>□</td>
</tr>
<tr>
<td>e12.7</td>
<td>□</td>
<td>□</td>
<td>□</td>
</tr>
<tr>
<td>e15.88</td>
<td>□</td>
<td>□</td>
<td>□</td>
</tr>
</tbody>
</table>

□: Factory flare nut attachment to the heat exchanger.
4. Installing the refrigerant piping

4.3. Indoor unit (Fig. 4-3)
Heat insulation for refrigerant pipes:
1. 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.
2. 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.
3. Secure both ends of each pipe cover with the enclosed bands. (Attach the bands 20 mm from the ends of the pipe cover.)
4. 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.)

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

5. Drainage piping work

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

5.2. Correct piping
Correct piping
Support metal
Insulating material
O.D. ø32 PVC TUBE
Downward slope (1/100 or more)
Insulation (9 mm or more)
Moisture trap
Air bleeder
Insulating material (purchased locally)
Band
Transparent PVC pipe
Drain port (transparent)
Matching

6. Installing the refrigerant piping

6.3. Indoor unit (Fig. 4-3)
Heat insulation for refrigerant pipes:
1. 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.
2. 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.
3. Secure both ends of each pipe cover with the enclosed bands. (Attach the bands 20 mm from the ends of the pipe cover.)
4. 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.)

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

5. Drainage piping work

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

5.2. Correct piping
Correct piping
Support metal
Insulating material
O.D. ø32 PVC TUBE
Downward slope (1/100 or more)
Insulation (9 mm or more)
Moisture trap
Air bleeder
Insulating material (purchased locally)
Band
Transparent PVC pipe
Drain port (transparent)
Matching

1. Connect the drain socket (supplied with the unit) to the drain port. (Fig. 5-2)
   (Fix the tube using PVC adhesive then secure it with a band.)
2. Install a locally purchased drain pipe (PVC pipe, O.D. ø32).
3. Insulate the tube and pipe. (PVC pipe, O.D. ø32 and socket)
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.)
6. Electrical work

6.1. Indoor unit (Fig. 6-1)

1. Remove the electrical wiring service panel.
2. Remove the electrical box cover.
3. 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 cover can be suspended below the unit during servicing. (Approx. 50 to 100 mm)

6.1.1. Indoor unit power supplied from outdoor unit

The following connection patterns are available.

The outdoor unit power supply patterns vary on models.

1-1 System

<table>
<thead>
<tr>
<th>Circuit</th>
<th>Wiring</th>
<th>Wire No.</th>
<th>× size (mm²)</th>
<th>Circuit rating</th>
</tr>
</thead>
<tbody>
<tr>
<td>1:1</td>
<td></td>
<td>1</td>
<td>1 × 1.5 (polar)</td>
<td>AC 230 V</td>
</tr>
<tr>
<td>1:1</td>
<td></td>
<td>1</td>
<td>1 × 1.5 (polar)</td>
<td>DC 12 V</td>
</tr>
<tr>
<td>1:1</td>
<td></td>
<td>2</td>
<td>2 × 0.3 (Non-polar)</td>
<td>DC 12 V</td>
</tr>
</tbody>
</table>

- **Affix label A that is included with the manuals near each wiring diagram for the indoor and outdoor units.**

Simultaneous twin/triple/four system

<table>
<thead>
<tr>
<th>Circuit</th>
<th>Wiring</th>
<th>Wire No.</th>
<th>× size (mm²)</th>
<th>Circuit rating</th>
</tr>
</thead>
<tbody>
<tr>
<td>1:1</td>
<td></td>
<td>1</td>
<td>1 × 1.5 (polar)</td>
<td>AC 230 V</td>
</tr>
<tr>
<td>1:1</td>
<td></td>
<td>1</td>
<td>1 × 1.5 (polar)</td>
<td>DC 12 V</td>
</tr>
<tr>
<td>1:1</td>
<td></td>
<td>2</td>
<td>2 × 0.3 (Non-polar)</td>
<td>DC 12 V</td>
</tr>
</tbody>
</table>

- **Affix label A that is included with the manuals near each wiring diagram for the indoor and outdoor units.**

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.
3. Install an earth longer than other cables.
6. Electrical work

6.1.2. Separate indoor unit/outdoor unit power supplies (For PUHZ application only)

The following connection patterns are available. The outdoor unit power supply patterns vary on models.

1:1 System

* The indoor power supply terminal kit is required.

Simultaneous twin/triple/four system

* The indoor power supply terminal kits are required.

If the indoor and outdoor units have separate power supplies, refer to the table below. If the indoor power supply terminal kit is used, change the indoor unit electrical box wiring referring to the figure in the right and the DIP switch settings of the outdoor unit control board.

- There are three types of labels (labels A, B and C). Affix the appropriate labels to the units according to the wiring method.

<table>
<thead>
<tr>
<th>Indoor unit specifications</th>
<th>Indoor unit specifications</th>
</tr>
</thead>
<tbody>
<tr>
<td>Indoor power supply terminal kit (option)</td>
<td>Required</td>
</tr>
<tr>
<td>Indoor unit electrical box connector change</td>
<td>Required</td>
</tr>
<tr>
<td>Label affixed near each wiring diagram for the indoor and outdoor units</td>
<td>Required</td>
</tr>
<tr>
<td>Outdoor unit DIP switch settings (when using separate indoor unit/outdoor unit power supply only)</td>
<td>ON 1 2 3 (SW8)</td>
</tr>
</tbody>
</table>

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 polyvinyl chloride sheathed flexible cord. (Design 60245 IEC 57)
3. Install an earth longer 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

(2) 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

- For direct installation on the wall, select one of the following:
  1) 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.
  2) Run the remote controller cord through the cut-out upper case, then seal the cut-out notch with putty.

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

2) Connecting procedures (Fig. 6-4)

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

3) Two remote controllers setting

If two remote controllers are connected, set one to “Main” and the other to “Sub”. For setting procedures, refer to “Function selection of remote controller” in the operation manual for the indoor unit.

6.2.2. 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. 6-5)

- Attach the remote controller holder to the desired location using two tapping screws.
- Place the lower end of the controller into the holder.

3) Setting (Fig. 6-6)

- Insert batteries.
- Press the SET button with something sharp at the end.

4) Automatic fan speed setting (For wireless remote controller)

It is necessary to set for wireless remote controller only when automatic fan speed is not set at default setting. It is not necessary to set for wired remote controller with automatic fan speed at default setting.

1. Press the SET button with something sharp at the end.

2. Press the AUTO STOP button.

3. Press the temp. buttons to set the setting No.

4. Press the SET button with something sharp at the end.
6. Electrical work

5) Assigning a remote controller to each unit (Fig. 6-8)
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.

6) 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.
FUNCTION blinks and Model No. is lighted.
② Press the MODE button twice continuously.
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.
⑤ Set pair number is lighted for three seconds then turned off.

6.3. Function settings
6.3.1. Function setting of the unit (Selecting the unit functions)
1) For wired remote controller (Fig. 6-9)
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 FILTER  and TEST RUN buttons simultaneously and
hold them for at least 2 seconds. FUNCTION will start to blink.
② Use the  buttons to set the refrigerant address (3) to 00.
③ Press  button and  will start to blink in the unit number (7) display.
④ Use the  buttons to set the unit number (7) to 00.
⑤ Press the MODE button  to designate the refrigerant address/unit number. [–] will blink in the mode number (1) display momentarily.
⑥ Press the 1 buttons to set the mode number (1) to 04.
⑦ Press the  and current set setting number (2) will blink.
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 MODE button  and mode and the setting number (1) and (2) will change to being on constantly and the contents of the setting can be confirmed.
⑨ Press the FILTER  and TEST RUN buttons simultaneously for at least two seconds. The function selection screen will disappear momentarily and the air conditioner OFF display will appear.

2) For wireless remote controller (Fig. 6-10)
Changing the power voltage setting
• Be sure to change the power voltage setting depending on the voltage used.
① Going to the function select mode.
Press the MODE button  twice continuously.
(Start this operation from the status of remote controller display turned off.)
FUNCTION is lighted and “00” blinks.
② Press the temp button once to set “50”. Direct the wireless remote controller
receiver of the indoor unit and press the MODE button  .
③ Setting the unit number
Press the temp button and  to set the unit number “00”. Direct the wireless remote controller toward the receiver of the indoor unit and press the MODE button .
④ Selecting a mode
Enter 04 to change the power voltage setting using the temp buttons  and .
Direct the wireless remote controller toward the receiver of the indoor unit and press the MODE button .
⑤ Selecting the setting number
Use the temp buttons  and  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 .
⑥ To select multiple functions continuously
Repeat steps ④ & 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 MODE 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.

6.3.2. Function setting on the remote controller
Refer to the indoor unit operation manual.
6. Electrical work

Function table

<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>Set by indoor unit’s remote controller</td>
<td></td>
<td>2</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Remote controller’s internal sensor</td>
<td></td>
<td>3</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></td>
<td>2</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Supported (indoor unit is equipped with outdoor-air intake)</td>
<td></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></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Select unit numbers 01 to 03 or all units (4) [wired remote controller] 07 [wireless remote controller]

Mode | Settings          | Mode no. | Setting no. | Initial setting | setting |
<table>
<thead>
<tr>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>Filter sign</td>
<td>100Hr</td>
<td>07</td>
<td>1</td>
<td>○</td>
<td></td>
</tr>
<tr>
<td></td>
<td>2500Hr</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Fan speed</td>
<td>No filter sign indicator</td>
<td>08</td>
<td>2</td>
<td>○</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Silent</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Standard</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>High ceiling</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>No. of air outlets</td>
<td>4 directions</td>
<td>09</td>
<td>2</td>
<td>○</td>
<td></td>
</tr>
<tr>
<td></td>
<td>3 directions</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>2 directions</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Installed options (high-performance filter)</td>
<td>Not supported</td>
<td>10</td>
<td>2</td>
<td>○</td>
<td></td>
</tr>
<tr>
<td>Up/down vane setting</td>
<td>Equipped with vanes (vanes angle setup 0)</td>
<td>11</td>
<td>3</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Equipped with vanes (vanes angle setup 1)</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Equipped with vanes (vanes angle setup 2)</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

*1 When the power supply returns, the air conditioner will start 3 minutes later.
*2 Power failure automatic recovery initial setting depends on the connecting outdoor unit.

6.3.3 How to set the fixed up/down air direction (Only for wired remote controller and PUHZ-RP/P, PU(H)-P application)

- Only the particular outlet can be fixed to certain direction with the procedures below. Once fixed, only the set outlet is fixed every time air conditioner is turned on. (Other outlets follow UP/DOWN air direction setting of the remote controller.)

**Explanation of word**

- "Refrigerant address No." and "Unit No." are the numbers given to each air conditioner.
- "Outlet No." is the number given to each outlet of air conditioner. (Refer to the right.)
- "Up/Down air direction" is the direction (angle) to fix.

Horizontal airflow

Fixed setting

Remote controller setting

- The airflow direction of the outlet is fixed in particular direction.
- When it is cold because of direct airflow, the airflow direction can be fixed horizontally to avoid direct airflow.

Outlet No.1
Outlet No.2
Outlet No.3
Outlet No.4

Fixed setting

Remote controller setting

- The airflow direction of the outlet is controlled by the airflow direction setting of the remote controller.

Outlet No.1
Outlet No.2
Outlet No.3
Outlet No.4

*Remind the number of air outlet is the number given to each outlet of air conditioner.

Reset horizontal

Outlet No. 2
Outlet No. 3
Outlet No. 4

Note: "0" indicates all outlets.
6. Electrical work

Operation buttons (During the fixed airflow direction mode)

< Process for setting >

[1] To turn off air conditioner and change the remote controller to "Fixed airflow direction mode"
1. Press ON/OFF button ① to turn off the air conditioner.
2. Press Fan Speed button ② and Filter ③ button for more than 2 seconds simultaneously and it becomes the fixed airflow direction mode after a while.

"Fixed airflow direction mode" display

2. Press Filter ④ button ④ to send the information on remote controller.
3. Wait for 15 seconds. How does the air conditioner run?
   → Only the air from the selected outlet blows downward.
   → Go to step [3];
   → Air from the wrong outlet blows downward.
   → Repeat 1 and set again.
   → All outlets are closed.
   → The numbers of the air conditioner (refrigerant address No., Unit No.) are wrong. Refer to How to find air conditioner No.

[2] To select and identify the outlet to set
1. Press Set Temperature button ⑤ to change number with the outlet No. blinking. Select outlet No. to set.

2. Press Mode button (Return button) ⑥ to blink Up/Down air direction indicator.
3. Press Set Temperature button until the direction to set is chosen.
4. Press Filter ④ button to send the information on remote controller to air conditioner.
5. Wait for 15 seconds. How does the air conditioner run?
   → Airflow direction is set in the selected direction.
   → The fixed setting completed (Go to step [4].)
   → Airflow direction is set in the wrong direction.
   → Repeat 2. and set again.

2. Press Filter ④ button ④ to send the information on remote controller.
3. Wait for 15 seconds. How does the air conditioner run?
   → Only the air from the selected outlet blows downward.
   → Go to step [3];
   → Air from the wrong outlet blows downward.
   → Repeat 1 and set again.
   → All outlets are closed.
   → The numbers of the air conditioner (refrigerant address No., Unit No.) are wrong. Refer to How to find air conditioner No.

[3] To fix air direction
1. Press Mode button (Return button) ⑥ to blink Up/Down air direction indicator.
2. Press Set Temperature button ⑤ until the direction to set is chosen.
3. Press Filter ④ button to send the information on remote controller to air conditioner.
4. Wait for 15 seconds. How does the air conditioner run?
   → Airflow direction is set in the selected direction.
   → The fixed setting completed (Go to step [4].)
   → Airflow direction is set in the wrong direction.
   → Repeat 2. and set again.

[4] To cancel "Fixed airflow direction mode"
1. Press ON/OFF button ① to cancel "Fixed airflow direction mode".
   It is also canceled by pressing Fan Speed button ② and Filter ③ button ④ for more than 2 seconds simultaneously.
2. Do not operate remote controller for 30 seconds after the "Fixed airflow direction mode" is canceled. It does not accept even if it is operated.
As for this air conditioner, air conditioner No. is "unit No. 1" of refrigerant address "0".

Flow of procedure

Check from refrigerant address 00 at first.

1. Press Mode button (Return button) to blink refrigerant address No.. Adjust refrigerant address No. with Set Temperature button.
2. Press Filter button to send the information on remote controller.
3. Wait for 15 seconds. How does the air conditioner run?
   → Only air from the outlet which No. displayed on remote controller blows downward.
   → Refrigerant address No.00 and unit No.1 are the air conditioner No..
   → All outlets are closed.
4. Repeat [1] and check. (If all the numbers are checked up to No.4 and is not found, go to [3].)
5. When "Err" is displayed, refrigerant address does not have further "unit No.".
   → The refrigerant address does not have further unit No.. (Go to [3].)

To check Unit No. of following refrigerant address No. (Maximum refrigerant address No. is 15)

1. Press Mode button (Return button) to blink refrigerant address No.. Adjust refrigerant No. with Set Temperature button.
2. Go back to [2] and check Unit No. again from Unit No. 1 in order.

To clear fixed setting

To clear all fixed setting (reset to factory default), press check button(clear button) for more than 3 seconds in fixed airflow direction mode.

Note: This operation clears the fixed setting information of all air conditioner connected to the remote controller.
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.

Warning:
Do not carry out this test on the control wiring (low voltage circuit) terminals.
Do not use the air conditioner if the insulation resistance is less than 1.0 MΩ.

7.2. Test run
The following 3 methods are available.

7.2.1. Using wired remote controller (Fig. 7-1)
1. Turn on the power at least 12 hours before the test run.
2. Press the [TEST] button twice. "TEST RUN" liquid crystal display
3. Press the [Mode selection] button and switch to the cooling (or heating) mode.
   - Make sure that cold (or warm) wind is blown out.
4. Press the [Fan speed] button. Make sure that the wind speed is switched.
5. Press the [Air direction button] or [Louver button].
   - Check operation of the vane or louver.
6. Check operation of the outdoor unit fan.
7. Release test run by pressing the [ON/OFF] button.

Note:
- Point the remote controller towards the indoor unit receiver while following steps 1 to 3.
- It is not possible to run the TEST RUN in FAN, DRY or AUTO mode.

7.2.2. Using wireless remote controller (Fig. 7-2)
1. Turn on the power to the unit at least 12 hours before the test run.
2. Press the TEST RUN button twice continuously.
   (Start this operation from the status of remote controller display turned off.)
3. TEST RUN and current operation mode are displayed.
4. Press the Mode button to activate mode, then check whether cool air is blown out from the unit.
5. Press the Mode button to activate mode, then check whether warm air is blown out from the unit.
6. Press the FAN button and check whether fan speed changes.
7. Press the FAN button and check whether the auto vane operates properly.
8. Press the ON/OFF button to stop the test run.

Note:
- The telephone number of the repair shop, sales office, etc., to contact if an error occurs can be registered in the remote controller. The telephone number will be displayed when an error occurs. For registration procedures, refer to the operation manual for the indoor unit.

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

7.3. Self-check

7.3.1. Wired remote controller (Fig. 7-3)
1. Turn on the power.
2. Press the CHECK button twice.
3. Set refrigerant address with [TEMP] button if system control is used.
4. Press the [ON/OFF] button to stop the self-check.

7.3.2. Wireless remote controller (Fig. 7-4)
1. Turn on the power.
2. Press the CHECK button twice.
   (Start this operation from the status of remote controller display turned off.)
3. While pointing the remote controller toward the unit's receiver, 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

Refer to the following tables for details on the check codes. (Wireless remote controller)

**Output pattern A**

<table>
<thead>
<tr>
<th>Beep sounds/OPERATION INDICATOR lamp blinking pattern</th>
<th>Check remote controller</th>
<th>Symptom</th>
<th>Remark</th>
</tr>
</thead>
<tbody>
<tr>
<td>Beep Beep Beep Beep Beep Beep Beep Off Approx. 2.5 sec. On 0.5 sec. On 0.5 sec. On 0.5 sec. On 0.5 sec. On 0.5 sec. Off Approx. 2.5 sec. On 0.5 sec. On 0.5 sec.</td>
<td></td>
<td>Number of blinks/beeps in pattern indicates the check code in the following table (i.e., n=5 for &quot;P5&quot;)</td>
<td>Number of blinks/beeps in pattern indicates the check code in the following table</td>
</tr>
</tbody>
</table>

**Output pattern B**

<table>
<thead>
<tr>
<th>Beep sounds/OPERATION INDICATOR lamp blinking pattern</th>
<th>Check remote controller</th>
<th>Symptom</th>
<th>Remark</th>
</tr>
</thead>
<tbody>
<tr>
<td>Beep Beep Beep Beep Beep Off Approx. 3.5 sec. On 0.5 sec. On 0.5 sec. Off Approx. 3.5 sec. On 0.5 sec. Off Approx. 3.5 sec. On 0.5 sec.</td>
<td></td>
<td>Number of blinks/beeps in pattern indicates the check code in the following table (i.e., n=2 for &quot;U2&quot;)</td>
<td>Number of blinks/beeps in pattern indicates the check code in the following table</td>
</tr>
</tbody>
</table>

**Output pattern A** Errors detected by indoor unit

<table>
<thead>
<tr>
<th>Wireless remote controller</th>
<th>Wired remote controller</th>
<th>Check code</th>
<th>Symptom</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>P1</td>
<td>Intake sensor error</td>
<td></td>
</tr>
<tr>
<td>2</td>
<td>P3</td>
<td>Pipe (TH) sensor error</td>
<td></td>
</tr>
<tr>
<td>3</td>
<td>E6, E7</td>
<td>Indoor/outdoor unit communication error</td>
<td></td>
</tr>
<tr>
<td>4</td>
<td>P4</td>
<td>Drain sensor error / Float switch connector open</td>
<td></td>
</tr>
<tr>
<td>5</td>
<td>P5</td>
<td>Drain pump error</td>
<td></td>
</tr>
<tr>
<td>6</td>
<td>PA</td>
<td>Forced compressor error</td>
<td></td>
</tr>
<tr>
<td>7</td>
<td>P6</td>
<td>Freezing/Overheating protection operation</td>
<td></td>
</tr>
<tr>
<td>8</td>
<td>EE</td>
<td>Communication error between indoor and outdoor units</td>
<td></td>
</tr>
<tr>
<td>9</td>
<td>P8</td>
<td>Pipe temperature error</td>
<td></td>
</tr>
<tr>
<td>10</td>
<td>E4</td>
<td>Remote controller signal receiving error</td>
<td></td>
</tr>
<tr>
<td>11</td>
<td>—</td>
<td>—</td>
<td></td>
</tr>
<tr>
<td>12</td>
<td>E9</td>
<td>Indoor/outdoor unit communication error (Transmitting error) (Outdoor unit)</td>
<td></td>
</tr>
<tr>
<td>No sound</td>
<td>E0, E3</td>
<td>Remote controller transmission error</td>
<td></td>
</tr>
<tr>
<td>No sound</td>
<td>E1, E2</td>
<td>Remote controller control board error</td>
<td></td>
</tr>
<tr>
<td>No sound</td>
<td>—</td>
<td>—</td>
<td></td>
</tr>
</tbody>
</table>

**Output pattern B** Errors detected by unit other than indoor unit (outdoor unit, etc.)

<table>
<thead>
<tr>
<th>Wireless remote controller</th>
<th>Wired remote controller</th>
<th>Check code</th>
<th>Symptom</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>E9</td>
<td>Indoor/outdoor unit communication error (Transmitting error) (Outdoor unit)</td>
<td></td>
</tr>
<tr>
<td>2</td>
<td>UF</td>
<td>Compressor overcurrent interruption</td>
<td></td>
</tr>
<tr>
<td>3</td>
<td>U3, U4</td>
<td>Compressor overcurrent interruption (When compressor locked)</td>
<td></td>
</tr>
<tr>
<td>4</td>
<td>UF</td>
<td>Outdoor unit fan protection stop</td>
<td></td>
</tr>
<tr>
<td>5</td>
<td>U6</td>
<td>Compressor overcurrent interruption/Abnormal of power module</td>
<td></td>
</tr>
<tr>
<td>6</td>
<td>U7</td>
<td>Abnormality due to low discharge temperature</td>
<td></td>
</tr>
<tr>
<td>7</td>
<td>U8</td>
<td>Abnormality such as overvoltage or voltage shortage and abnormal synchronous signal to main circuit/Current sensor error</td>
<td></td>
</tr>
<tr>
<td>8</td>
<td>—</td>
<td>—</td>
<td></td>
</tr>
<tr>
<td>9</td>
<td>—</td>
<td>—</td>
<td></td>
</tr>
<tr>
<td>10</td>
<td>—</td>
<td>—</td>
<td></td>
</tr>
<tr>
<td>11</td>
<td>—</td>
<td>—</td>
<td></td>
</tr>
<tr>
<td>12</td>
<td>—</td>
<td>—</td>
<td></td>
</tr>
<tr>
<td>13</td>
<td>—</td>
<td>—</td>
<td></td>
</tr>
<tr>
<td>14</td>
<td>—</td>
<td>—</td>
<td></td>
</tr>
</tbody>
</table>

*1 If the beeper does not sound again after the initial two beeps to confirm the self-check start signal was received and the OPERATION INDICATOR lamp does not come on, there are no error records.
*2 If the beeper sounds three times continuously "beep, beep, beep (0.4 + 0.4 + 0.4 sec.)" after the initial two beeps to confirm the self-check start signal was received, the specified refrigerant address is incorrect.
* On wireless 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 details, check the LED display of the outdoor controller board.
7. Test run

- If the unit cannot be operated properly after the 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><strong>PLEASE WAIT</strong></td>
<td>For about 2 minutes after power-on</td>
<td>After LED 1, 2 are lighted, LED 2 is turned off, then only LED 1 is lighted. (Correct operation)</td>
</tr>
<tr>
<td><strong>PLEASE WAIT → Error code</strong></td>
<td>Subsequent to about 2 minutes after power-on</td>
<td>Only LED 1 is lighted. → LED 1, 2 blink.</td>
</tr>
</tbody>
</table>
| **Display messages do not appear even when operation switch is turned ON** (operation lamp does not light up) | Only LED 1 is lighted. → LED 1 blinks twice, LED 2 blinks once. | Incorrect wiring between indoor and outdoor units (incorrect polarity of S1, S2, S3)  
Remote controller wire short |

On the wireless remote controller with condition above, following phenomena take place.
- No signals from the remote controller are accepted.
- Operation lamp is blinking.
- The buzzer makes a short ping 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.

| 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. |

7.4. Check of drainage (Fig. 7-5)

- Water supply pump
- Water (about 1000cc)
- Drain plug
- Pour water through outlet
  Be careful not to spray water into the drain pump mechanism.

- Ensure that the water is being properly drained out and that no water is leaking from joints.

**When electric work is completed.**
- Pour water during cooling operation and check.

**When electric work is not completed.**
- Pour water during emergency operation and check.
  * Drain pump and fan are activated simultaneously when single phase 220-240V is turned on to S1 and S2 on terminal block after the connector (SWE) on controller board in the electrical branch box is set to ON.

Be sure to turn it back to the former state after work.
9. Installing the grille

9.1. Checking the contents (Fig. 9-1)

This kit contains this manual and the following parts.

<table>
<thead>
<tr>
<th>Accessory name</th>
<th>Qty</th>
<th>Remarks</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 (Divided into four parts)</td>
</tr>
<tr>
<td>Gauge</td>
<td>1</td>
<td></td>
</tr>
<tr>
<td>Fastener</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>Screw</td>
<td>4</td>
<td>4 × 8</td>
</tr>
<tr>
<td>Screw</td>
<td>1</td>
<td>4 × 12</td>
</tr>
<tr>
<td>Wireless remote controller</td>
<td>1</td>
<td>for PLP-6BALM</td>
</tr>
<tr>
<td>Wired remote controller</td>
<td>1</td>
<td>for PLP-6BAMD</td>
</tr>
</tbody>
</table>

9.2. Preparing to attach the grille (Fig. 9-2)

- With the gauge 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
- Make sure that A is performed within 17-22 mm. Damage could result by failing to adhere to this range.

9.2.1. Removing the intake grille (Fig. 9-3)

- Slide the levers in the direction indicated by the arrows 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 arrows ②.

9.2.2. Removing the corner panel (Fig. 9-4)

- 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.

9.3. 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 1 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).

9.4. Installing the grille

9.4.1. Preparations (Fig. 9-5)

- Install the two enclosed screws with washer ⑧ in the main unit (at the corner drain pipe area and at the opposite corner) as shown in the diagram.
9. Installing the grille

9.4.2. Temporary installation of the grille (Fig. 9-6)
- Temporarily secure the grille using the bell shaped holes by putting the socket of the grille marked B on the corner drain pipe area of the main unit.
  * Make sure that the lead wiring of the grille does not get pinched between the grille and the main unit.

9.4.3. Securing the grille (Fig. 9-7)
- 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.

9.4.4. Wire connection (Fig. 9-8)
- Remove the 2 screws fixing the cover of electrical branch box of the unit and open the cover.
- Be sure to connect the connector (white, 20-pole) for vane motor of the grille to CNV connector of controller board of the unit.
- As for PLP-6BALM, the connector of wireless sensor cable is also connected to connector CN90 on indoor controller board.
- The lead wire of grille is passed through the catch of bell mouth of the unit perfectly.
- The remaining lead wire is tied with clamp of the unit and put the cover of the unit again with 2 screws.

Note:
Do not put the remaining lead wire in electrical branch box of the unit.

9.5. Locking the up/down airflow direction (Fig. 9-9)
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 updown 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 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.
     (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.
- It also can be set by remote controller. Refer to 6.3.3.

9.6. 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.
9. Installing the grille

![Fig. 9-10](image)

10. Easy maintenance function (For PUHZ-RP application only)

By using the maintenance mode, you can display many types of maintenance data on the remote controller such as the heat exchanger temperature and compressor current consumption for the indoor and outdoor units. This function can be used whether the air conditioner is operating or not. During air conditioner operation, data can be checked during either normal operation or maintenance mode stable operation.

* This function cannot be used during the test run.
* The availability of this function depends on the connecting outdoor unit. Refer to the brochures.

**Maintenance mode operation procedures**

1. **Press the TEST button for three seconds to activate the maintenance mode.**

2. **Press the TEMP buttons to set the refrigerant address.**

3. **Select the data you want to display.**

   - **Compressor information**
   - **Outdoor unit information**
   - **Indoor unit information**

4. **Press the FILTER button.**

5. **The data is displayed.**

   - **Airflow temperature display example:**

   - **Stable operation**

   - **Display the COOL button to select the operation mode.**

   - **Display the ON/OFF button to cancel stable operation.**

6. **Press the TEST button for three seconds or press the ON/OFF button to deactivate the maintenance mode.**

**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 x 8) as shown in the illustration.
- * If the corner panels are not attached, they may fall off while the unit is operating.
- 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.)
- Drain piping of the main unit
- Position of the corner panel when sent from the factory (logo attached).
- 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.)
- Receiver (Only PU-PB/LM Panel)
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 2006/95/EC

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