

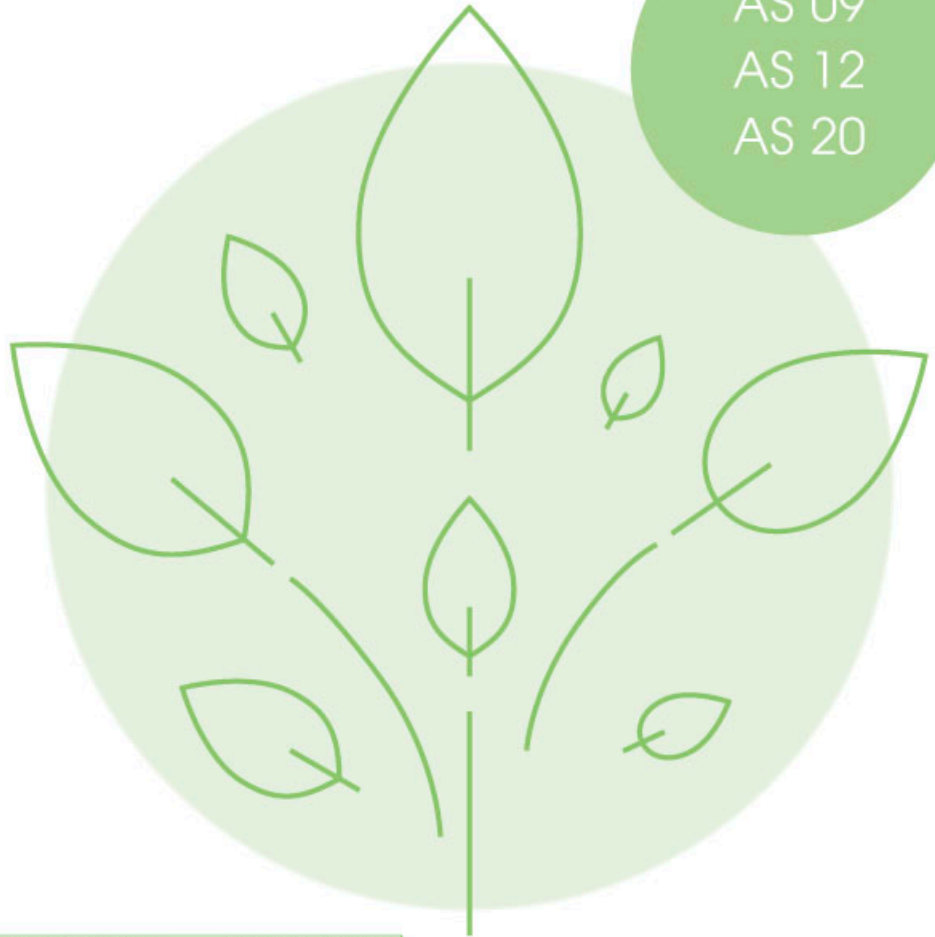


惠而浦

WHIRLPOOL SPLIT TYPE AIR CONDITIONER

惠而浦分體式冷氣機

AS 09
AS 12
AS 20



OWNER'S INSTRUCTIONS • 使用說明

Before operating the unit, please read this manual thoroughly, and retain for future reference.

操作前，請先仔細閱讀本說明書，並請妥善保存，以備日後參考之用。

Preparation before use

Before using the air conditioner, be sure to check and preset the following.

- **Remote Controller presetting**

The remote controller is **NOT** presetting as Cooling Only Air Conditioner or Heat Pump by manufacturer.

Each time after the remote controller replaces batteries or is energized, the Cooling indicator ☼ and Heating indicator ⦿ will flashes alternately on LCD of the remote controller.

User can preset the remote controller type depending on the air conditioner type you have purchased as follows:

Press any button when ⦿ flashes, Heat Pump is set.

Press any button when ☼ flashes, Cooling Only is set.

If you don't press any button within 12 seconds, the remote controller is preset as Heat Pump automatically.

Note:

If the air conditioner you purchased is a Cooling Only one, but you preset the remote controller as Heat Pump, it doesn't bring any matter. But if the air conditioner you purchased is a Heat Pump one, and you preset the remote controller as Cooling Only, then you CAN NOT preset the Heating operation with the remote controller.

- **Back-light function (optional)**

Hold down any button of remote controller for about 2 seconds, back-light turns on. Release the button, it lights off automatically 10 seconds later.

Note: Back-light is an optional function.

- **Auto Restart Presetting**


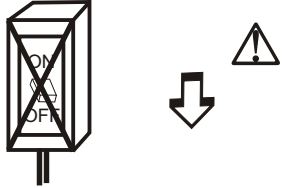

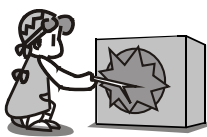
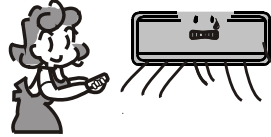

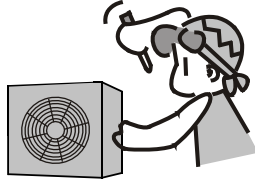
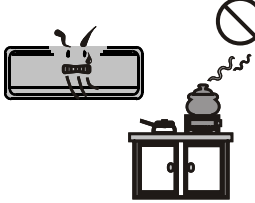
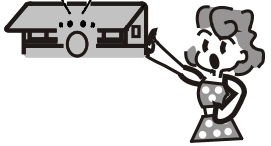

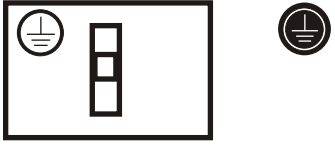
If you want auto restart function, let the appliance is energized, hold down the Emergency button (ON/OFF) on the indoor unit for over 5 seconds, auto restart function is set with buzz sound, air conditioner is on standby.

If auto restart has been set, hold down the Emergency button (ON/OFF) on the indoor unit for over 5 seconds, auto restart function is canceled with buzz sound, air conditioner is on standby.

Safety precautions

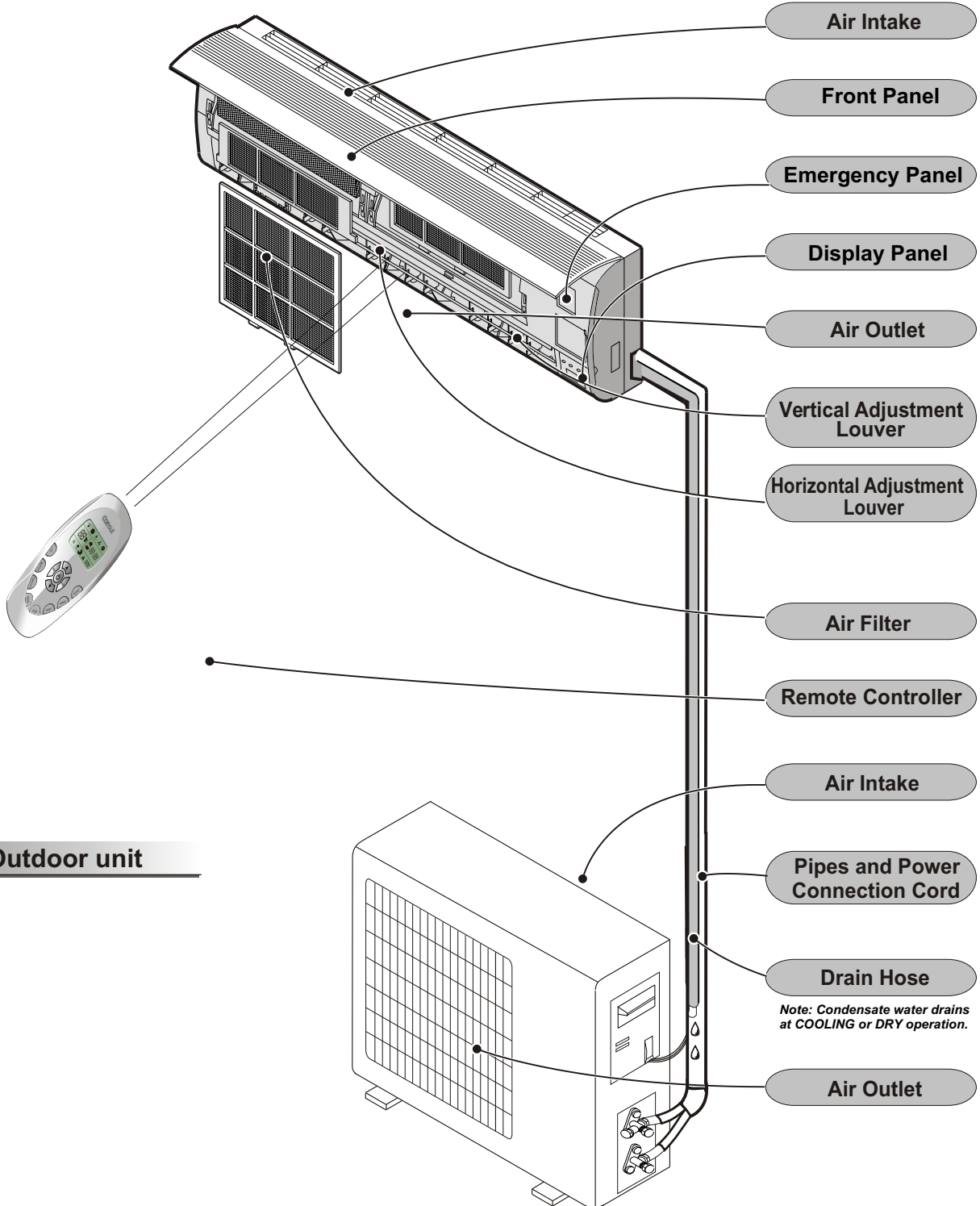
Symbols in this Use and Care Manual are interpreted as shown below.

- ⊘ Be sure not to do.
- ⊛ Be sure to follow this instruction.
- ❓ The feature of the appliance, instead of a fault.
- ⚡ Grounding is essential.
- 🔪 Pay attention to such a situation.
- ⚠ Warning: Incorrect handling could cause a serious hazard, such as death, serious injury, etc.

| | | |
|--|---|--|
| <p style="text-align: right;">⚠</p> <p>Use correct power supply in accordance with the rating plate requirement. Otherwise, serious faults or hazard may occur or a fire maybe break out.</p> | <p style="text-align: right;">⚠</p>  <p>Keep the power supply circuit breaker or plug from dirt. Connect the power supply cord to it firmly and correctly, lest an electric shock or a fire break out due to insufficient contact.</p> | <p style="text-align: right;">⚠</p>  <p>Do not use the power supply circuit breaker or pull off the plug to turn it off during operation. This may cause a fire due to spark, etc.</p> |
| <p style="text-align: right;">⚠</p>  <p>Do not knit, pull or press the power supply cord, lest the power supply cord be broken. An electric shock or fire is probably caused by a broken power supply cord.</p> | <p style="text-align: right;">⚠</p>  <p>Never insert a stick or similar obstacle to the unit. Since the fan rotates at high speed, this may cause an injury.</p> | <p style="text-align: right;">⊘</p>  <p>It is harmful to your health if the cool air reaches you for a long time. It is advisable to let the air flow be deflected to all the room.</p> |
| <p style="text-align: right;">⚠</p>  <p>Turn off the appliance by remote control firstly before cutting off power supply if malfunction occurs.</p> | <p style="text-align: right;">🔪</p>  <p>Do not repair the appliance by yourself. If this is done incorrectly, it may cause an electric shock, etc.</p> | <p style="text-align: right;">⊘</p>  <p>Prevent the air flow from reaching the gas burners and stove.</p> |
| <p style="text-align: right;">⊘</p>  <p>Do not touch the operation buttons when your hands are wet.</p> | <p style="text-align: right;">⚠</p>  <p>Do not put any objects on the outdoor unit.</p> | <p style="text-align: right;">⚡</p>  <p>It is the user's responsibility to make the appliance be grounded according to local codes or ordinances by a licenced technician.</p> |

Identification of parts

Indoor unit



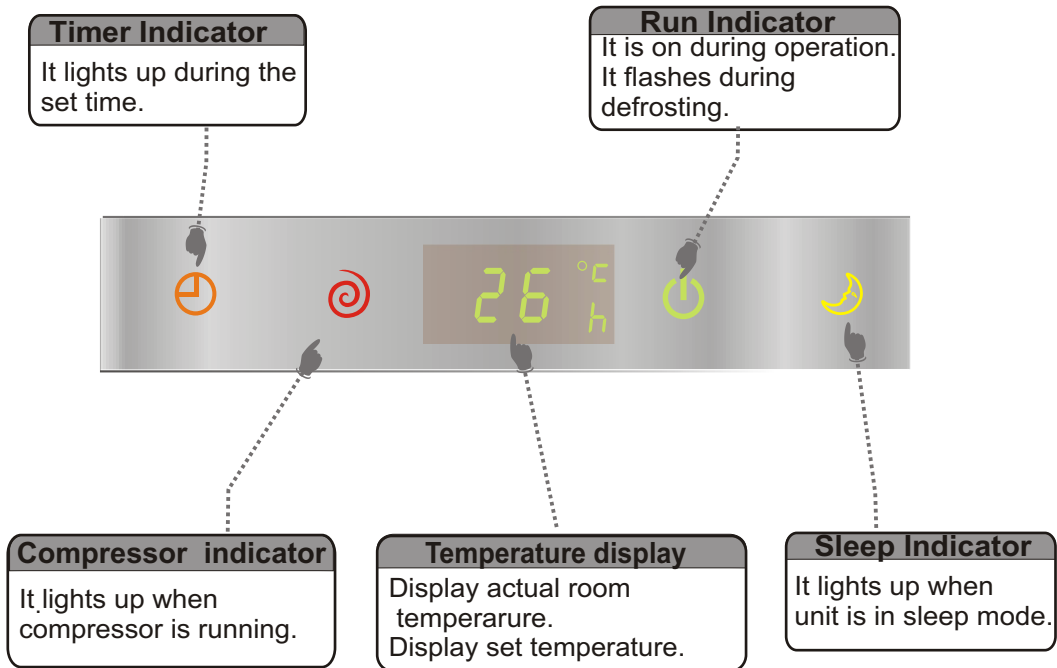
Outdoor unit

Note: Condensate water drains at COOLING or DRY operation.

☑ *The figures in this manual are based on the external view of a standard model. Consequently, the shape may differ from that of the air conditioner you have selected.*

Identification of parts

UH series operating and display



☑ The shape and position of the switches and indicators may vary from different models, but their function are similar.

Remote controller

Remote controller

The remote controller transmits signals to the system.

1 ON/OFF BUTTON

The appliance will be started when it is energized or will be stopped when it is in operation, if you press this button.

2 MODE BUTTON

Press this button to select the operation mode.

3 FAN BUTTON

Used to select fan speed in sequence auto, high, medium or low.

4 5 ROOM TEMPERATURE SETTING BUTTONS

Used to adjust the room temperature and the timer, also real time.

6 6th BUTTON

Used to enter fuzzy logic operation directly, regardless of the unit is on or off.

7 SWING BUTTON

Used to stop or start vertical adjustment louver swinging and set the desired up/down airflow direction.

8 SLEEP BUTTON

Used to set or cancel Sleep Mode operation.

9 LOCK BUTTON

When you press this button, all the buttons are locked and not available. Press again to cancel it.

10 CLOCK BUTTON

Used to set the current time.

11 12 TIMER ON/OFF BUTTON

Used to set or cancel the timer operation.



13 Jet BUTTON

Used to start or stop the fast cooling. (Fast cooling operates at high fan speed with 18°C set temp automatically)

Indication symbols on LCD:

☼ Cooling indicator

≡≡≡ Auto fan speed

▲ 6th sense indicator

📶 Signal transmit.

💧 Dry indicator

≡≡≡ High fan speed

☾ Sleep indicator

ON 88:88 Display set timer
OFF 88:88 Display current time

🌀 Fan only indicator

≡≡ Medium fan speed

🔒 Lock indicator

☀ Heating indicator

> Low fan speed

☼ Jet indicator

88°C Display set temperature

Note: Each mode and relevant function will be further specified in following pages.

Remote controller

Remote controller

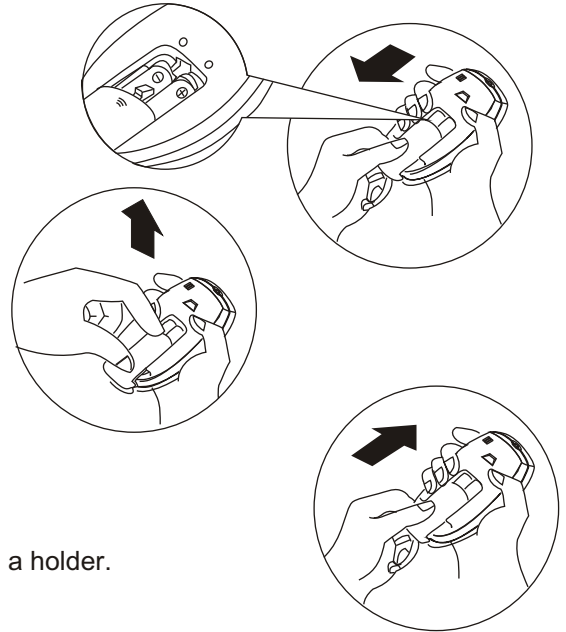
• How to Insert the Batteries

Remove the battery cover according to the arrow direction.
Insert new batteries making sure that the (+) and (-) of battery are matched correctly.

Reattach the cover by sliding it back into position.

Note:

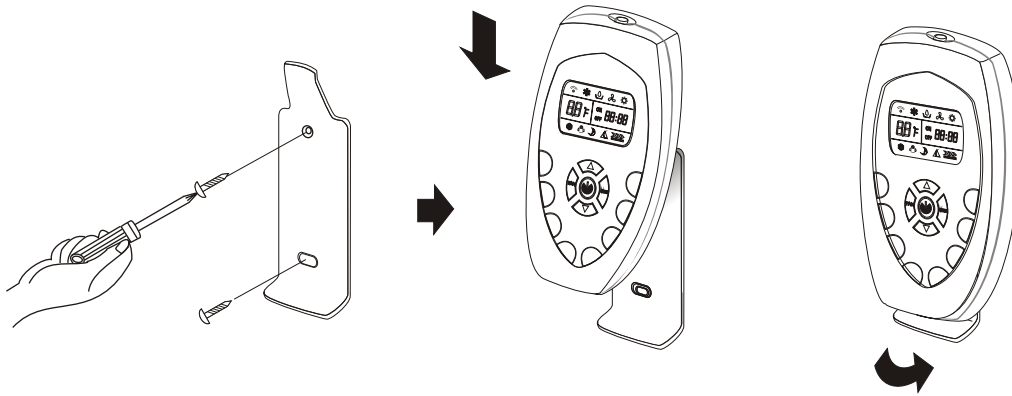
- Use 2 LR03 AA(1.5volt) batteries. Do not use rechargeable batteries. Replace batteries with new ones of the same type when the display becomes dim.
- If the replacement is done within 1 minute, the remote controller will keep original presetting. However, if you want to change the presetting from Heat Pump to Cool Only or Cool Only to Heat Pump, you should reload batteries 3 minutes after removing the old ones. (Please refer to page 1 for details.)



• Storage and Tips for Using the Remote Controller

The remote controller may be stored mounted on a wall with a holder.

Note: The remote controller holder is an optional part.

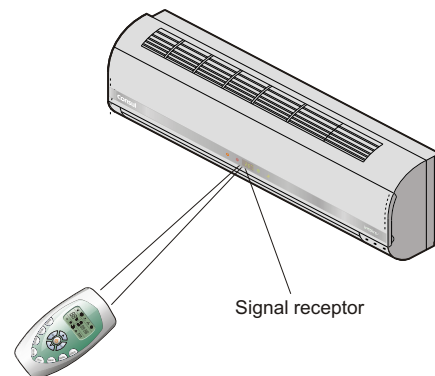


• How to Use

To operate the room air conditioner, aim the remote controller to the signal receptor.
The remote controller will operate the air conditioner at a distance of up to 7m when pointing at signal receptor of indoor unit.

• Choose Cooling Only Remote controller or Heat Pump

Please refer to page 1 "Preparation before use" for details.



Operation instructions

Operation modes

Selecting mode

Each time **MODE** button is pressed, the operation mode is changed in sequence:

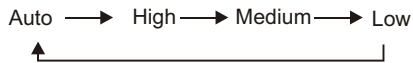


1

- ☑ Heating mode is **NOT** available for cooling only air conditioner.

FAN mode

Each time the "FAN" button is pressed, the fan speed is changed in sequence:



2

- ☑ At "FAN ONLY" mode, only "High", "Medium" and "Low" are available. At "DRY" mode, Fan speed is set at "Low" automatically, "FAN" button is ineffective in this case.

Setting temperature

- Press once to **raise** temperature setting by 1°C
- Press once to **lower** temperature setting by 1°C

3

- ☑

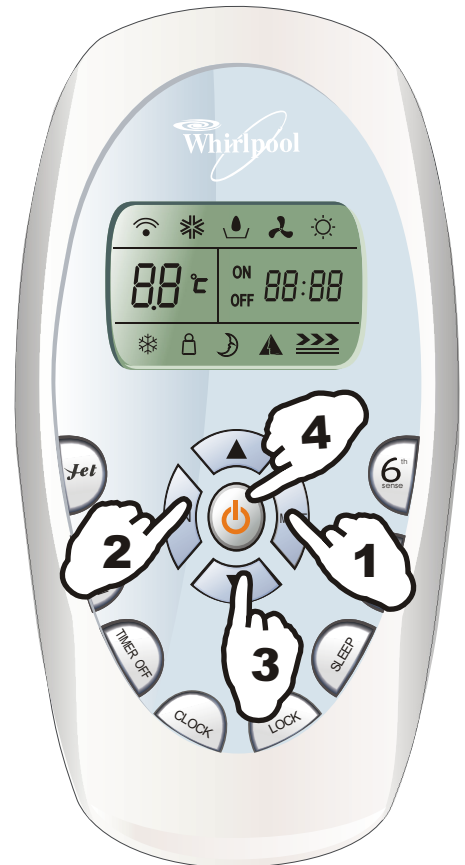
| Range of available set temperature | |
|------------------------------------|---------------|
| *HEATING, COOLING | 18°C~32°C |
| DRY | unable to set |
| FAN ONLY | unable to set |

*Note: Heating mode is **NOT** available for cooling only models.

Turning on

Press button, when the appliance receives the signal, the RUN indicator of the indoor unit lights up.

4



SWING, 6th sense, TIMER ON, TIMER OFF, CLOCK, SLEEP and Jet operation modes will be specified in the following pages.

- ☑ • Changing modes during operation, sometimes the unit does not response at once. Wait 3 minutes.
- During heating operation, air flow is not discharged at the beginning. After 2–5 minutes, the air flow will be discharged until temperature of indoor heat exchanger rises.
- Wait 3 minutes before restarting the appliance.

Operation instructions

Airflow direction control


Airflow direction control

Vertical airflow is automatically adjusted to a certain angle in accordance with the operation mode after turning on the unit.

| Operation mode | Direction of airflow |
|--------------------|----------------------|
| COOLING, DRY | horizontal |
| *HEATING, FAN ONLY | downward |

The direction of airflow can be also adjusted to your own requirement by pressing the "SWING" button of the remote controller.

5



**Heating mode is only available for heat pump models.*



Vertical airflow control (with the remote controller)

Using remote controller to set various angles of flow or specific angle as you like.

Swinging airflow

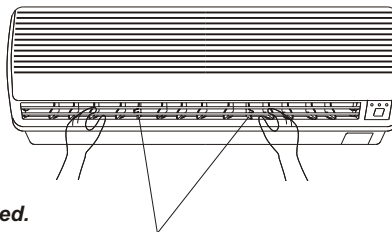
Pressing "SWING" button once, the vertical adjustment louver will swing up and down automatically.

Desired direction airflow

Pressing the "SWING" button again when the louvers swing to a suitable angle as desired.

Horizontal airflow control (with hands)

Turning the control rods of the horizontal adjustment louvers to change horizontal air flow as shown.



control rods of horizontal adjustment louvers

Note: The shape of the unit may look different from that of the air conditioner you have selected.

- A** Do not turn the vertical adjustment louvers manually, otherwise malfunction may occur. If that happens, turn off the unit first and cut off the power supply, then restore power supply again.
- B** It is better not to let the vertical adjustment louver tilt downward for a long time at COOLING or DRY mode to prevent condensed water from dripping.

Operation instructions

6th sense mode

Press the **6th** button, the unit enters **6th sense** mode (fuzzy logic operation) directly regardless of the unit is on or off. In this mode, temperature and fan speed are automatically set based on the actual room temperature.

Operation mode and temperature are determined by indoor temperature

Heat pump models

| Indoor temperature | Operation mode | Target temperature |
|--------------------|----------------|---|
| 21°C or below | HEATING | 22°C |
| 21°C-23°C | FAN ONLY | |
| 23°C-26°C | DRY | Room temperature decrease 1.5°C after operate for 3 minutes |
| Over 26°C | COOLING | 26°C |

Cooling only models



| Indoor temperature | Operation mode | Target temperature |
|--------------------|----------------|---|
| 26°C or below | DRY | Room temperature decrease 1.5°C after operate for 3 minutes |
| Over 26°C | COOLING | 26°C |





❑ **6th** Button is ineffective in Jet mode.

Note: Temperature, airflow and direction are controlled automatically in 6th mode. However, a decrease or rise of up to 2 °C can be set with the remote controller if you still feel uncomfortable.

What you can do in 6th sense mode

| Your feeling | button | adjustment procedure |
|--|---|---|
| Uncomfortable because of unsuitable air flow volume. |  | Indoor fan speed alternates among High, Medium and Low each time this button is pressed. |
| Uncomfortable because of unsuitable flow direction. |  | Press it once, the vertical adjustment louver swings to change vertical airflow direction. Press it again, swings stops. For horizontal airflow direction, please refer to the previous page for details. |

CLOCK button

You can adjust the real time by pressing CLOCK button, then using  and  buttons to get the correct time, press CLOCK button again the real time is set.





Operation instructions

Timer mode

It is convenient to set the timer on with **TIMER ON/OFF** buttons when you go out in the morning to achieve a comfortable room temperature at the time you get home. You can also set timer off at night to enjoy a good sleep.







► How to set **TIMER ON**

TIMER ON button can be used to set the timer programming as wished in order to switch on the appliance at your desired time.

- i) Press **TIMER ON** button, "ON 12:00" flashes on the LCD, then you can press the  or  buttons to select your desired time for appliance on.

 Increase
 Decrease



Press the  or  button once to increase or decrease the time setting by 1 minute.
Press the  or  button one and a half seconds to increase or decrease the time setting by 10 minute.
Press the  or  button for a longer time to increase or decrease the time by 1 hour.

Note: If you don't set the time in 10 seconds after you press **TIMER ON button, the remote controller will exit the **TIMER ON** mode automatically.**

- ii) When your desired time displayed on LCD, press the **TIMER ON** button and confirm it.

A "beep" can be heard.

"ON" stops flashing.

The **TIMER indicator on the indoor unit lights up.**

- iii) After the set timer displayed for 5 seconds the clock will be displayed on the LCD of the remote controller instead of set timer.

► How to cancel **TIMER ON**

Press the **TIMER ON** button again, a "beep" can be heard and the indicator disappears, the **TIMER ON** mode has been canceled.

Note: It is similar to set **TIMER OFF, you can make the appliance switch off automatically at your desired time.**

Operation instructions

SLEEP mode

SLEEP mode

SLEEP mode can be set in **COOLING** or **HEATING** operation mode. This function gives you a more comfortable environment for sleep.

In **SLEEP** mode,

- The appliance will stop operation automatically after operating for 8 hours.
- Fan speed is automatically set at low speed.
- *Set temperature will rise by 1°C at most if the appliance operates in cooling mode for 2 hours constantly, then keeps steady.
- Set temperature will decrease by 3°C at most if the appliance operates in heating mode for 3 hours constantly, then keeps steady.

**Note: In cooling mode, if room temperature is 26°C or above, set temperature will not change.*

Note: Heating is NOT available for cooling only air conditioner.



Jet mode

Jet mode

- **Jet** mode is used to start or stop fast cooling. Fast cooling operates at high fan speed, changing the set temperature automatically to 18°C.
- **Jet** mode can be set when the appliance is in operation or energized.
- In Jet mode, you can set airflow direction or timer. If you want to escape from Jet mode, press any - **Jet** , **MODE**, **FAN**, **ON/OFF** or **TEMPERATURE SETTING** button, the display will return to the original mode.

Note:

- **SLEEP** and **6** buttons are not available in Jet mode.
- **Jet** Button is ineffective in HEATING mode.
- The Appliance will continue working in Jet mode with set temperature of 18°C, if you don't escape from it by pressing any of the buttons mentioned above.

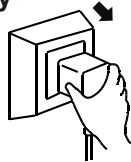


Maintenance

Front panel maintenance

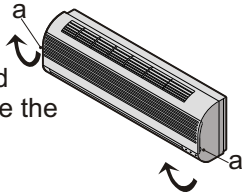
1 Cut off the power supply

Turn off the appliance first before disconnecting from power supply.



2

Grasp position "a" and pull outward to remove the front panel.



3 Wipe with a soft and dry cloth.

Use lukewarm water (below 40°C) to clean if the appliance is very dirty.



Use a dry and soft cloth to clean it.

4 Never use volatile substance such as gasoline or polishing powder to clean the appliance.



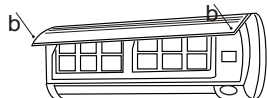
5 Never sprinkle water onto the indoor unit



Dangerous!
Electric shock!

6 Reinstall and shut the front panel.

Reinstall and shut the front panel by pressing position "b" downward.

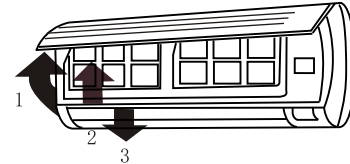


Air filter maintenance

It is necessary to clean the air filter after using it for about 100 hours.

Clean it as follows:

1 Stop the appliance and remove the air filter.



1. Open the front panel.
2. Press the handle of the filter gently from the front.
3. Grasp the handle and slide out the filter.

2 Clean and reinstall the air filter.

If the dirt is conspicuous, wash it with a solution of detergent in lukewarm water. After cleaning, dry well in shade.



3 Close the front panel again.

- ☑ *Clean the air filter every two weeks if the air conditioner operates in an extremely dusty environment.*

Protection

Operating condition

The protective device maybe trip and stop the appliance in the cases listed below.

| | |
|----------------|---------------------------------------|
| COOLING | Outdoor air temperature is over *43°C |
| | Room temperature is below 21°C |
| DRY | Room temperature is below 18°C |

If the air conditioner runs in COOLING or DRY mode with door or window opened for a long time when relative humidity is above 80%,dew may drip down from the outlet.

Noise pollution

- Install the air conditioner at a place that can bear its weight in order to operate more quietly.
- Install the outdoor unit at a place where the air discharged and the operation noise would not annoy your neighbors.
- Do not place any obstacles in front of the air outlet of the outdoor unit lest it increases the noise level.

Features of protector

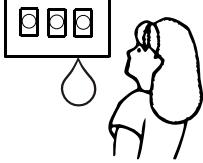
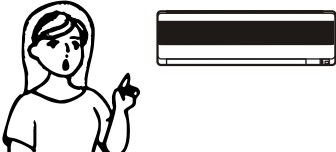
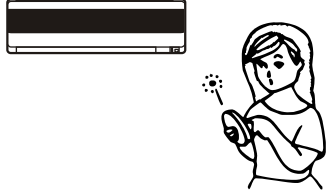
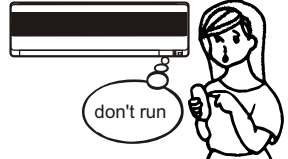
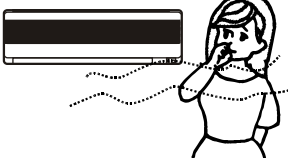
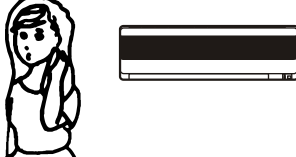
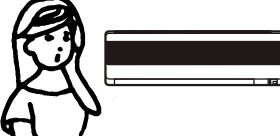
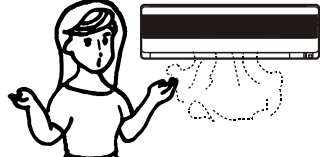
① The protective device will work at following cases.

- Restarting the unit at once after operation stops or changing mode during operation, you need to wait 3 minutes.
- Connect to power supply and turn on the unit at once, it may start 20 seconds later.

② If all operation has stopped, press **ON/OFF** button again to restart, Timer should be set again if it has been canceled.

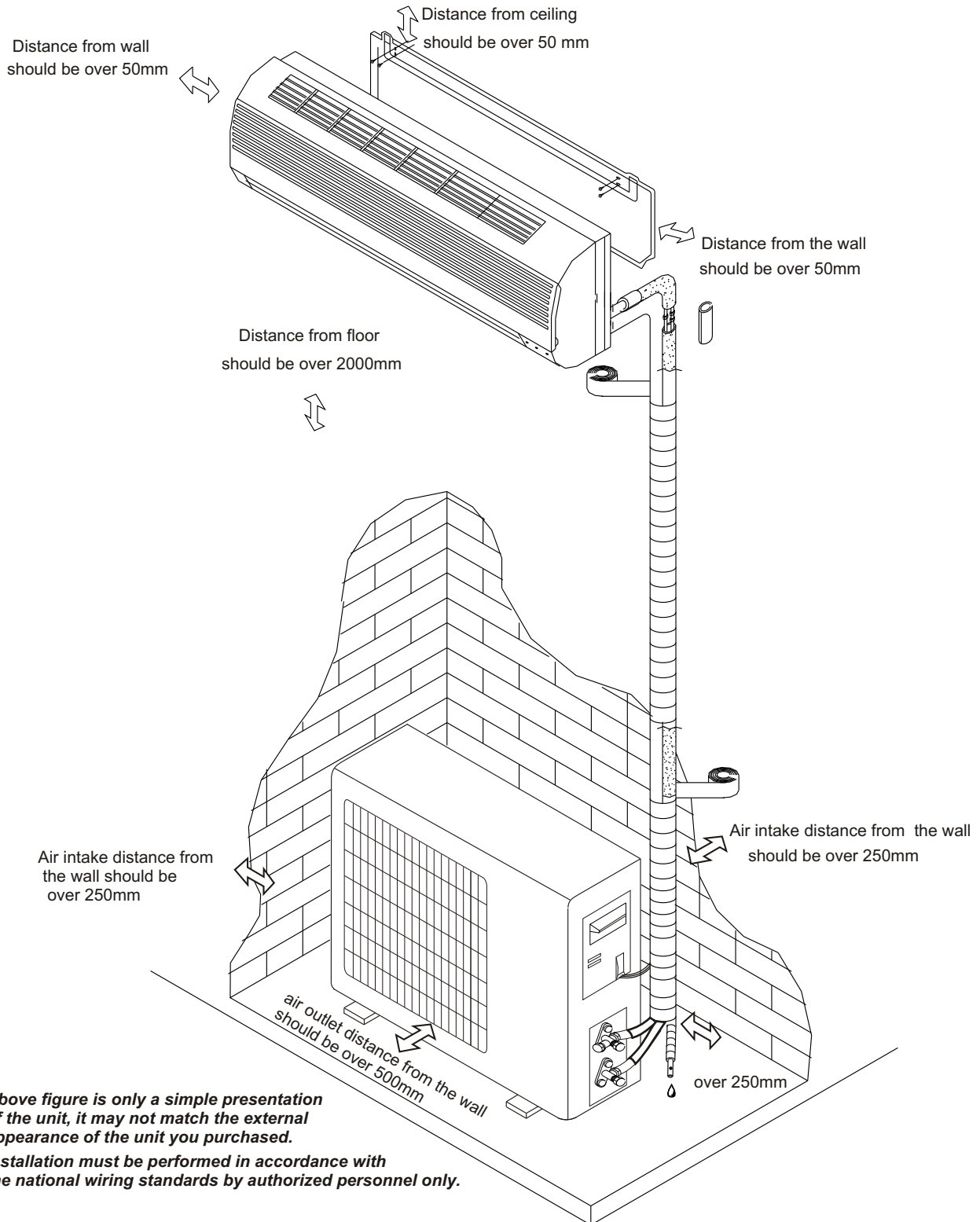
Troubleshooting

The following cases may not always be a malfunction, please check it before asking for service.

| Trouble | Analysis |
|---|--|
| <p>Does not run</p>  | <ul style="list-style-type: none"> • If the protector trip or fuse is blown. • Please wait for 3 minutes and start again, protector device may be preventing unit to work. • If batteries in the remote controller exhausted. • If the plug is not properly plugged. |
| <p>No cooling or heating air</p>  | <ul style="list-style-type: none"> • Is the air filter dirty? • Are the intakes and outlets of the air conditioner blocked? • Is the temperature set properly? |
| <p>Ineffective control</p>  | <ul style="list-style-type: none"> • If strong interference (from excessive static electricity discharge, power supply voltage abnormality) presents, operation will be abnormal. At this time, disconnect from the power supply and connect back 2-3 seconds later. |
| <p>Does not operate immediately</p>  | <ul style="list-style-type: none"> • Changing mode during operation, 3 minutes will delay. |
| <p>Peculiar odor</p>  | <ul style="list-style-type: none"> • This odor may come from another source such as furniture, cigarette etc, which is sucked in the unit and blows out with the air. |
| <p>A sound of flowing water</p>  | <ul style="list-style-type: none"> • Caused by the flow of refrigerant in the air conditioner, not a trouble. • Defrosting sound in heating mode. |
| <p>Cracking sound is heard</p>  | <ul style="list-style-type: none"> • The sound may be generated by the expansion or contraction of the front panel due to change of temperature. |
| <p>Spray mist from the outlet</p>  | <ul style="list-style-type: none"> • Mist appears when the room air becomes very cold because of cool air discharged from indoor unit during COOLING or DRY operation mode. |
| <p>The compressor indicator (red) lights on constantly, and indoor fan stops.</p> | <ul style="list-style-type: none"> • The unit is shifting from heating mode to defrost. The indicator will lights off within ten minutes and returns to heating mode. |

Installation instructions

Installation diagram



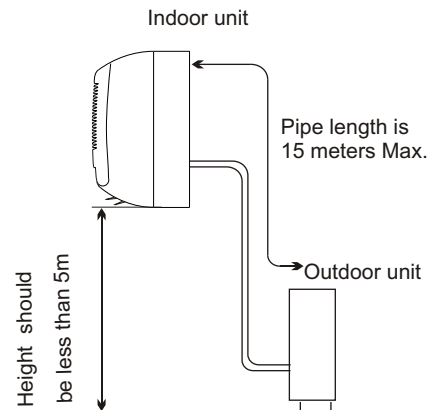
- Above figure is only a simple presentation of the unit, it may not match the external appearance of the unit you purchased.
- Installation must be performed in accordance with the national wiring standards by authorized personnel only.

Installation instructions

Select the best location

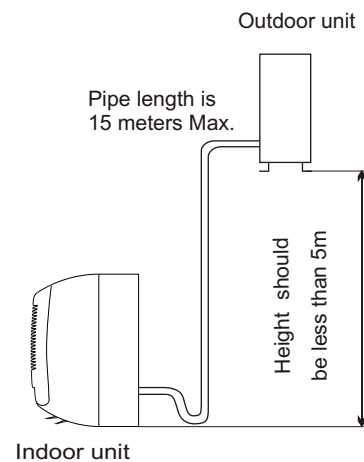
Location for Installing Indoor Unit

- Where there is no obstacle near the air outlet and air can be easily blown to every corner.
- Where piping and wall hole can be easily arranged.
- Keep the required space from the unit to the ceiling and wall according to the installation diagram on previous page.
- Where the air filter can be easily removed.
- Keep the unit and remote controller 1m or more apart from television, radio etc.
- To prevent the effects of a fluorescent lamps, keep as far as possible.
- Do not put anything near the air inlet to obstruct it from air absorption.
- Where there is strong enough to bear the weight and is not tend to increase operation noise and vibration.



Location for Installing Outdoor Unit

- Where it is convenient to install and well ventilated.
- Avoid installing it where flammable gas could leak.
- Keep the required distance apart from the wall.
- The distance between Indoor and outdoor unit should be 5 meters and can go up to maximum 15 meters with additional refrigerant charge.
- Keep the outdoor unit away from a place of greasy dirt, vulcanization gas exit.
- Avoid installing it at the roadside where there is a risk of muddy water.
- A fixed base where is not subject to increasing operation noise.
- Where there is not any blockage for air outlet.



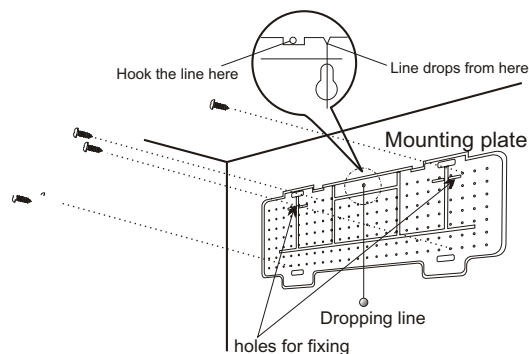
| Model | Max. Allowable Tubing Length at Shipment (m) | Limit of Tubing Length (m) | Limit of Elevation Difference H (m) | Required amount of additional refrigerant (g/m) |
|--------|--|----------------------------|-------------------------------------|---|
| 9K~18K | 5 | 15 | 5 | 20 |

Installation instructions

Indoor unit installation

1. Installing the Mounting Plate

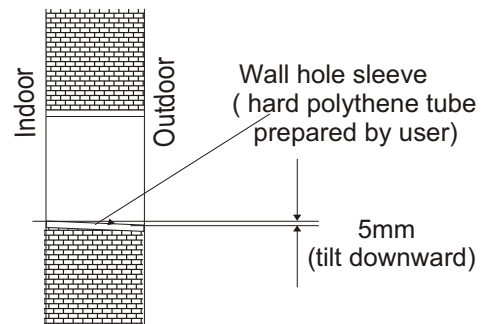
- Decide an installing location for the mounting plate according to the indoor unit location and piping direction.
- Keep the mounting plate horizontally with a horizontal ruler or dropping line.
- Drill holes of 32mm in depth on the wall for fixing the plate.
- Insert the plastic plugs to the hole, fix the mounting plate with tapping screws.
- Inspect if the mounting plate is well fixed. Then drill a hole for piping.



Note: The shape of your mounting plate may be different from the one above, but installation method is similar.

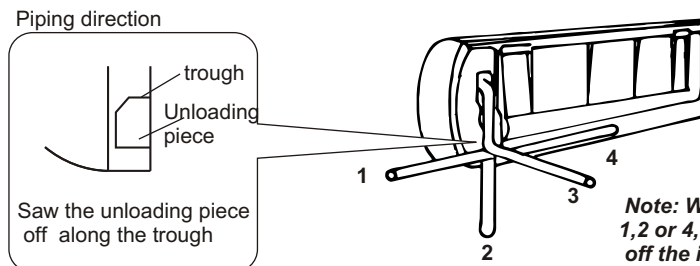
2. Drill a Hole for Piping

- Decide the position of hole for piping according to the location of mounting plate.
- Drill a hole on the wall. The hole should tilt a little downward toward outside.
- Install a sleeve through the wall hole to keep the wall tidy and clean.



3. Indoor Unit Piping Installation

- Put the piping (liquid and gas pipe) and cables through the wall hole from outside or put them through from inside after indoor piping and cables connection complete so as to connect to outdoor unit.
- Decide whether saw the unloading piece off in accordance with the piping direction. (as shown below)



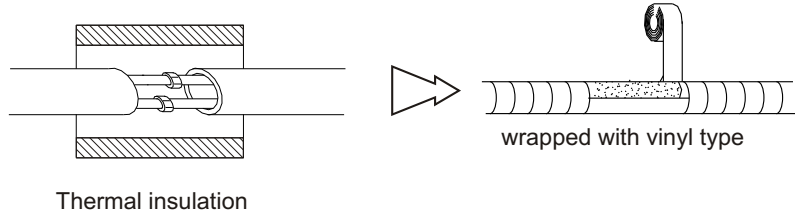
Note: When installing the pipe at the directions 1, 2 or 4, saw the corresponding unloading piece off the indoor unit base.

- After connecting piping as required, install the drain hose. Then connect the power cords. After connecting, wrap the piping, cords and drain hose together with thermal insulation materials.

Installation instructions



- **Piping Joints Thermal Insulation:** Wrap the piping joints with thermal insulation materials and then wrap with a vinyl tape.



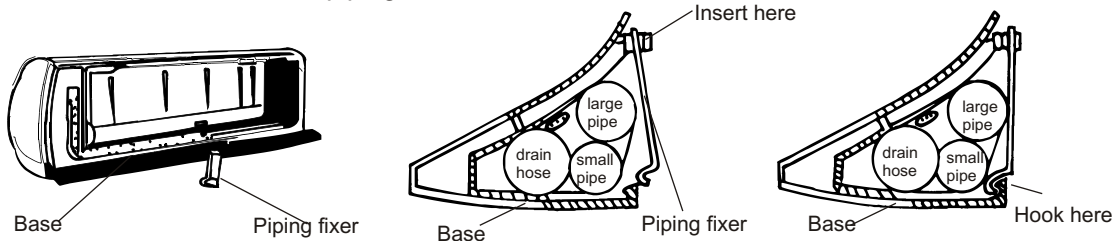
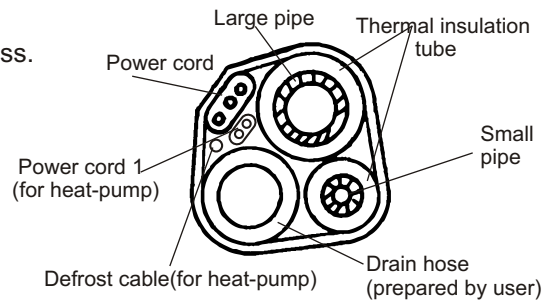
- **Piping Thermal Insulation:**

- Place the drain hose under the piping.
- Insulation material uses polythene foam over 6mm in thickness.
Note: Drain hose is prepared by user.

- Drain pipe should point downward for easy drain flow. Do not arrange the drain pipe twisted, sticking out or wave around, do not immerse the end of it in water.

If an extension drain hose is connected to the drain pipe, make sure to thermal insulated when passing along the indoor unit.

- When the piping is directed to the right, piping, power Cord and drain pipe should be thermal insulated and fixed onto the back of the unit with a piping fixer.



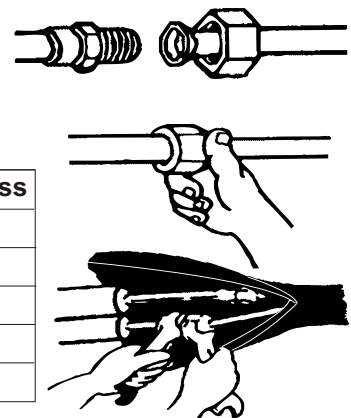
A. Insert the pipe fixer to the slot.

B. Press to hook the pipe fixer onto the base.

Piping Connection:

- Connect indoor unit pipes with two wrenches. Pay special attention to the allowed torque as shown below to prevent the pipes, connectors and flare nuts from being deformed and damaged.
- Pre-tighten them with fingers at first, then use the wrenches.

| Model | Pipe size | Torque | Nut width | Min.thickness |
|-------|------------------------|---------|-----------|---------------|
| 9,12K | Liquid Side (1/4 inch) | 1.8kg.m | 17mm | 0.6mm |
| 18K | Liquid Side (3/8 inch) | 3.5kg.m | 22mm | 0.6mm |
| 9K | Gas Side (3/8 inch) | 3.5kg.m | 22mm | 0.6mm |
| 12K | Gas Side (1/2 inch) | 5.5kg.m | 24mm | 0.6mm |
| 18K | Gas Side (5/8 inch) | 7.5kg.m | 27mm | 0.6mm |



Installation instructions

4. Connecting of the Cable

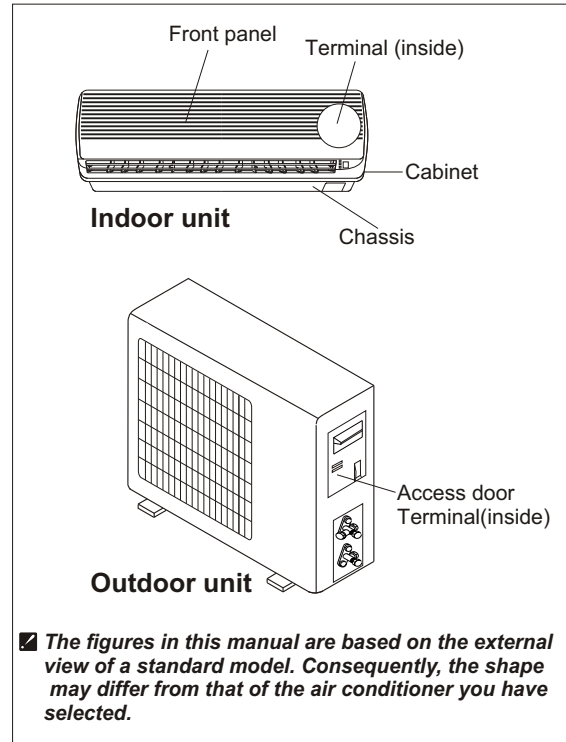
• Indoor Unit

Connect the power connecting cord to the indoor unit by connecting the wires to the terminals on the control board individually in accordance with the outdoor unit connection.

Note: For some models, it is necessary to remove the cabinet to connect to indoor unit terminal.

• Outdoor Unit

- 1). Remove the access door from the unit by loosening the screw. Connect the wires to the terminals on the control board individually as the following.
- 2). Secure the power connecting cord onto the control board with cable clamp.
- 3). Reinstall the access door to the original position with the screw.



Caution:

1. Never fail to have an individual power circuit specifically for the air conditioner. As for the method of wiring, refer to the circuit diagram posted on the inside of the access door .
2. Confirm that the cable thickness is as specified in the power source specification. (See the cable specification table below)
3. Check the wires and make sure that they are all tightly fastened after cable connection.
4. Be sure to install an earth leakage circuit breaker in wet or moist area.

Cable Specifications

| Capacity (Btu/h) | Power cord | | Power connecting cord | | Main power supply |
|------------------|----------------|-------------------------------|-----------------------|-------------------------------|-------------------|
| | Type | Normal cross - sectional area | Type | Normal cross - sectional area | |
| 9K,12K | H05VV-F | 1.0~1.5mm ² X3 | H07RN-F | 1.5mm ² X3 | To indoor |
| 18K | H05VV-F RVV | 1.5~2.0mm ² X3 | H07RN-F | 1.5mm ² X3 | To indoor |

Attention:

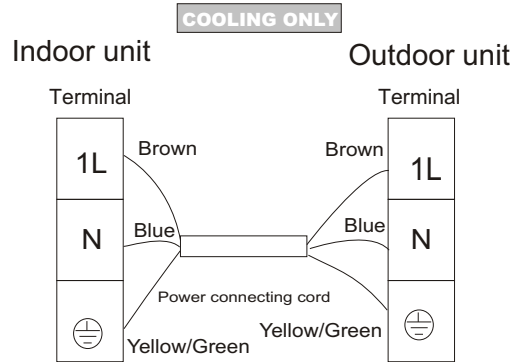
Accessibility to the plug must be guaranteed even after the installation of the appliance to disconnect it in case of need. If not possible, connect appliance to a double-pole switching device with contact separation of at least 3 mm placed in an accessible position even after installation.

Installation instructions

Wiring Diagram

Make sure that the color of wires of the outdoor unit and the terminal No. are the same as those of the indoor unit.

- 9K, 12K, 18K Model



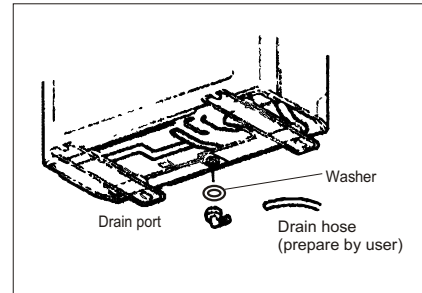
For above models, the power supply are connected from indoor unit.

Installation instructions

Outdoor unit installation

1. Install Drain Port and Drain Hose (for heat-pump model only)

The condensate drains from the outdoor unit when the unit operates in heating mode. In order not to disturb your neighbor and protect the environment, install a drain port and a drain hose to direct the condensate water. Just install the drain port and rubber washer to the chassis of the outdoor unit, then connect a drain hose to the port as the right figure shown.



2. Install and Fix Outdoor Unit

Fix with bolts and nuts tightly on a flat and strong floor. If installed on the wall or roof, make sure to fix the supporter well to prevent it from shaking due to serious vibration or strong wind.

3. Outdoor Unit Piping Connection

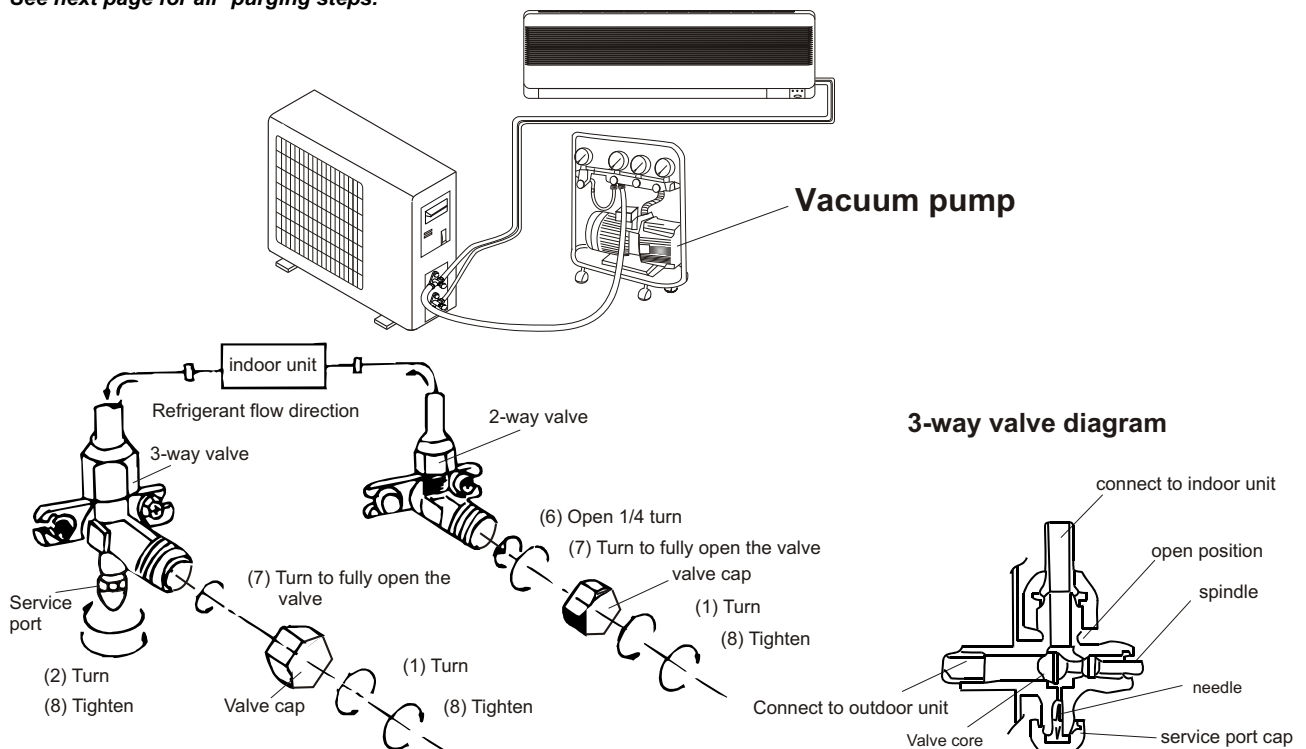
- Remove the valve caps from the 2-way and 3-way valve.
- Connect the pipes to the 2-way and 3-way valves separately according to the required torque.

4. Outdoor Unit Cable Connection (see previous page)

Air purging

The air which contains moisture remaining in the refrigeration cycle may cause a malfunction on the compressor. After connecting the indoor and outdoor units, evacuate air and moisture from refrigerant cycle using a vacuum pump, as shown below.

Note: To protect the environment, be sure not to discharge the refrigerant to the air directly. See next page for air purging steps.



Installation instructions

How to Purge Air Tubes:

- (1). Unscrew and remove caps from 2 and 3-way valves.
- (2). Unscrew and remove cap from service valve.
- (3). Connect vacuum pump flexible hose to the service valve.
- (4). Start vacuum pump for 10-15 minutes until reaching a vacuum of 10 mm Hg absolutes.
- (5). With vacuum pump still running close the low pressure knob on vacuum pump manifold. Then stop vacuum pump.
- (6). Open 2-way valve 1/4 turn then close it after 10 seconds. Check tightness of all joints using liquid soap or an electronic leak detector.
- (7). Turn 2 and 3-way valves stem to fully the valves. Disconnect vacuum pump flexible hose.
- (8). Replace and tighten all valve caps.

Notes

- Please read this manual before installing and using it.
- Do not let air enter the refrigeration system or discharge refrigerant when moving the air conditioner.
- Testing run the air conditioner after finishing installation, and record details of operation.
- Type of fuse used on indoor unit controller is 50T, with rating 2.5A,AC250V.
- The fuse for the whole unit is to be provided by the user according to the current at maximum power Input or use other over-current protective device instead.
- Only the air conditioner can be connected to the power line.
- The power connection for the air conditioner has to be done at the main power distribution which has to be of a low impedance.
- In order to ensure the suitability of the equipment for connection, the user should consult with the supply authority, if necessary, that the service current capacity at the interface point is sufficient for the equipment.
- Refer to the rating plate of the equipment for power consumption details.
- If the supply cord is damaged, it must be replaced by the manufacturer or its service agent or similarly qualified person in order to avoid a hazard.

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