NEC

Inverter Split (room) air conditioner

RIH-2667 RIH-3267

User Manual

Inverter Split (Room) Air Conditioner

Use and Care Manual

Thank you very much for purchasing a NEC Air Conditioner.
Please read this Use and Care Manual carefully before installing and using this appliance and keep this manual for future reference.

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 Correctly for cooling and reverse cycle.
  - Each time after replacing the batteries in the remote controller, 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 to 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 will not operate. 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.

- ***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 a 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

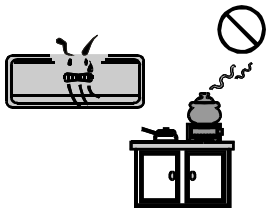
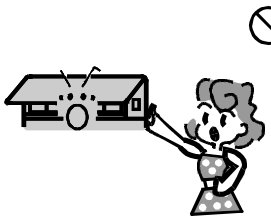
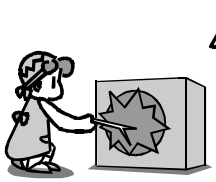
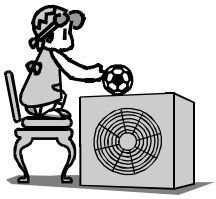
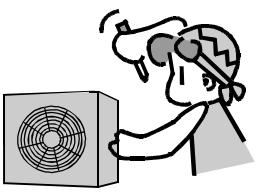
Symbols in this User Manual are interpreted as shown below.

Be sure not to do.

Grounding is essential.

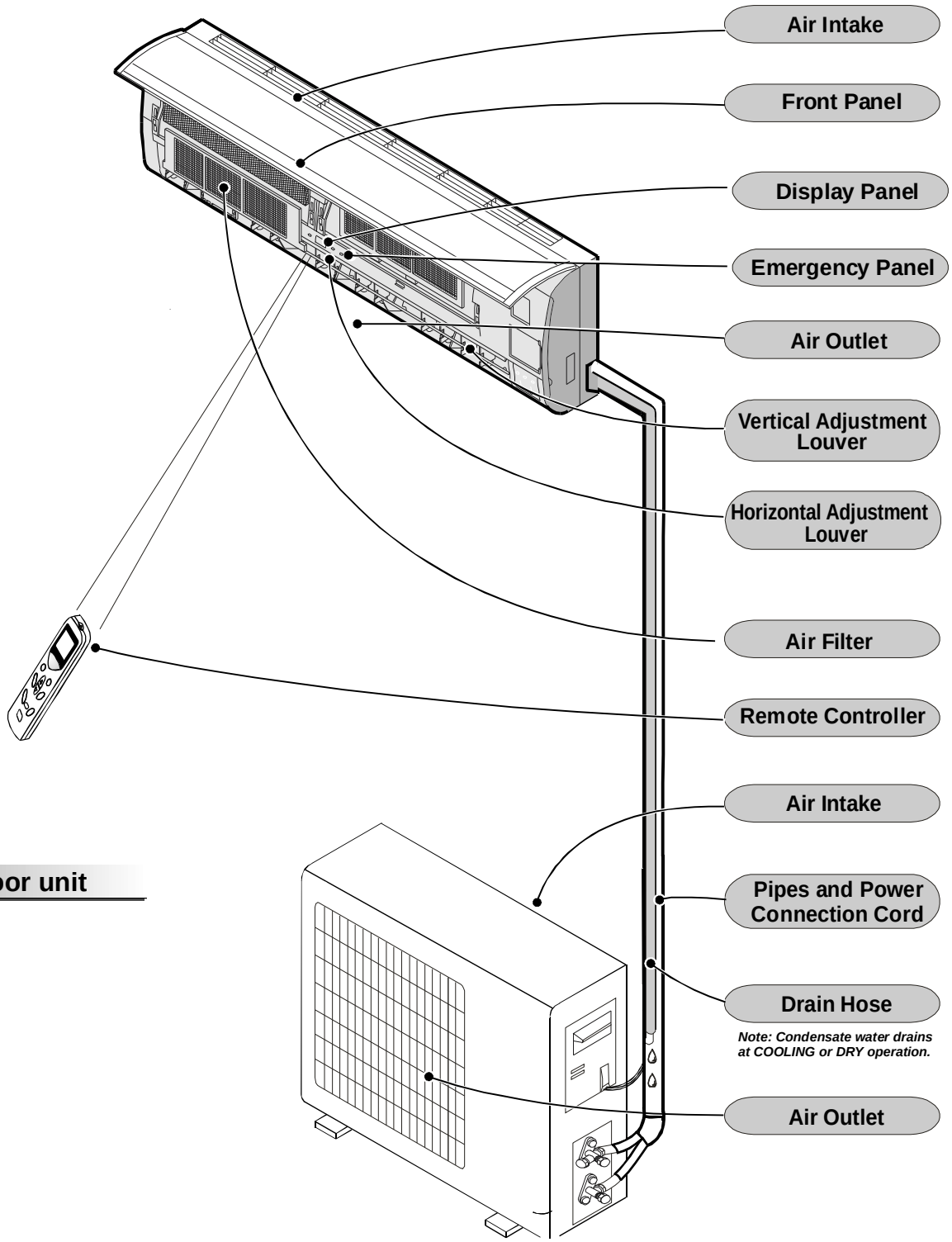
Pay attention to such a situation.

Warning: Incorrect handling could cause a serious hazard, such as death, serious injury, etc.

Use correct power supply in accordance with the rating plate requirement. Otherwise, serious faults or hazard may occur or a fire maybe break out.	 Prevent the air flow from reaching the gas burners and stove.	 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.
 Do not touch the operation buttons when your hands are wet.	 Never insert a stick or similar obstacle to the unit. Since the fan rotates at high speed, this may cause an injury.	 Do not put any objects on the outdoor unit.
 Turn off the appliance by remote control firstly before cutting off power supply if malfunction occurs.	 Do not repair the appliance by yourself. If this is done incorrectly, it may cause an electric shock, etc.	

Identification of parts

Indoor unit



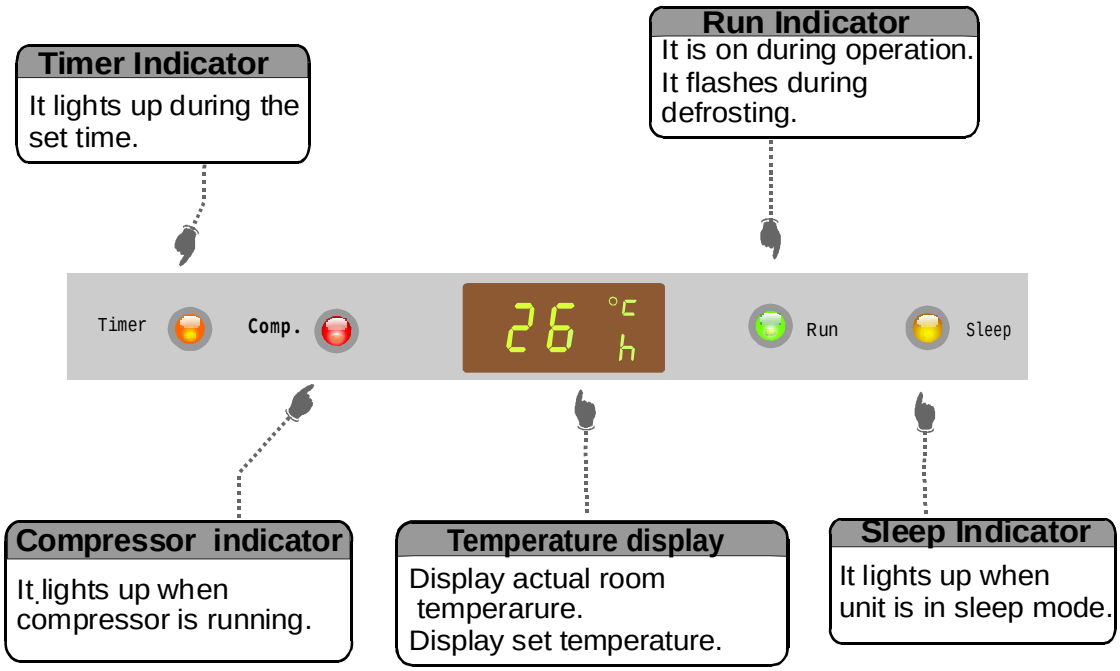
Outdoor unit

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.

Note: The pipes and power connection cord will be provided or purchased by customer.

Identification of parts

UH series operating and display

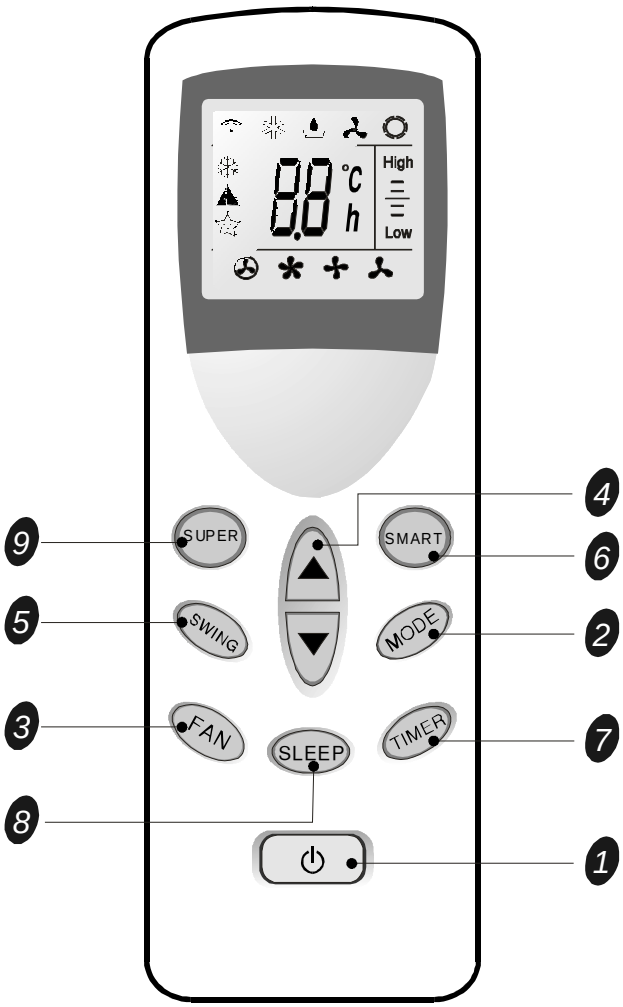


The shape and position of the switches and indicators may vary from different models, but their function are similar.

Remote controller

Remote controller

The remote controller transmits signals to the system.



1 ON/OFF BUTTON
The appliance will started when it is energized or will stop when it is in operation, if you press this button.

2 MODE BUTTON
Used to select the operation mode.

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

4 ROOM TEMPERATURE SETTING BUTTONS
Used to select the room temperature.
Used to set time in TIMER mode.

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

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

7 TIMER SET/CANCEL BUTTON
Used to set or cancel the timer operation.

8 SLEEP BUTTON
Used to set or cancel Sleep Mode operation.

9 SUPER 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:

- Super indicator
- Smart indicator
- Sleep indicator
- Signal transmit.
- Cooling indicator
- Dry indicator
- Fan only indicator
- Heating indicator
- Auto fan speed
- High fan speed
- Medium fan speed
- Low fan speed
- High / Low — Used to regulate temperature in Smart mode or Dry mode (*See page 9 "Smart Mode" for details)*
- Display set temperature / Display set timer

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

Remote controller

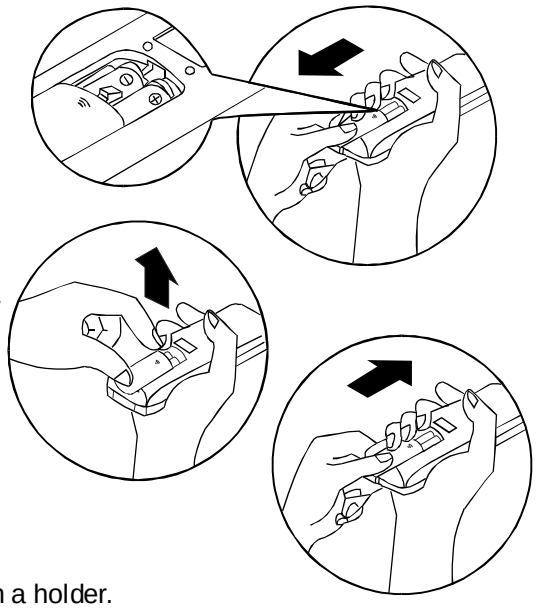
Remote controller

- ***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.



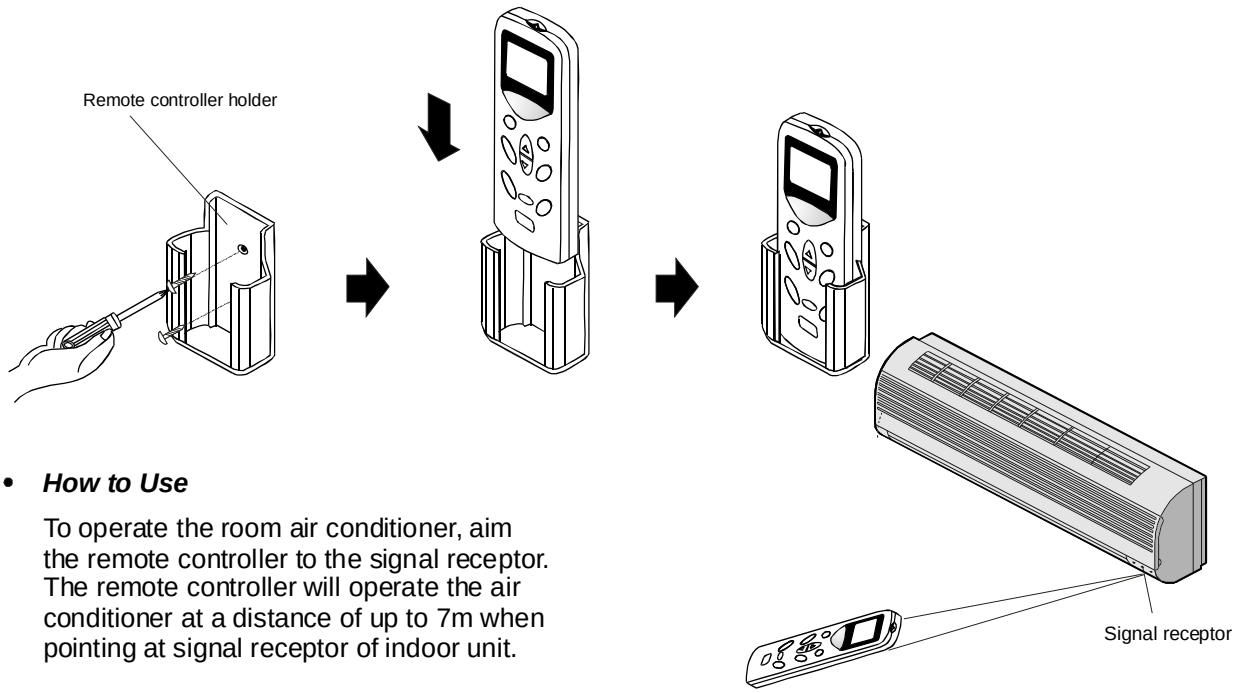
Note:

- ***Use 2 LR03 AAA(1.5volt) batteries. Do not use rechargeable batteries. Replace batteries with new ones of the same type when the display becomes dim or effective responce.***
- ***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.

- ***Back-light Function (optional)***

  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:

COOLING → DRY → FAN ONLY → HEATING

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:

Auto → High → Medium → Low

2

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

Setting temperature

Press once to raise temperature setting by 1℃

Press once to lower temperature setting by 1℃

3

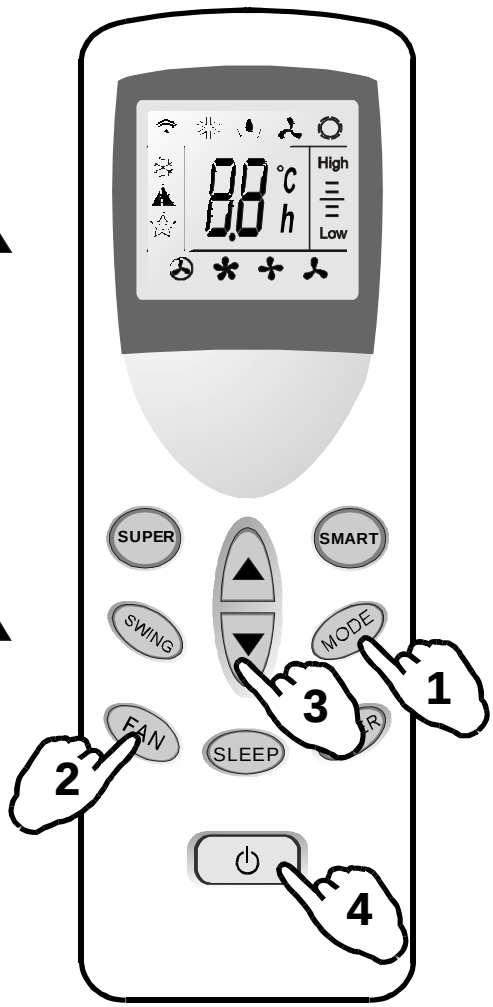
Range of available set temperature	
*HEATING, COOLING	18℃~32℃
DRY	room temperature ± 2℃
FAN ONLY	unable to set

***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, SMART, TIMER, SLEEP and SUPER 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

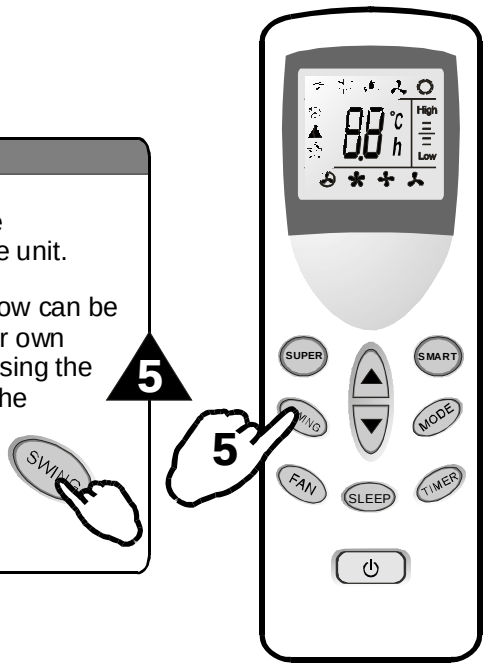
Airflow direction control

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.



***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

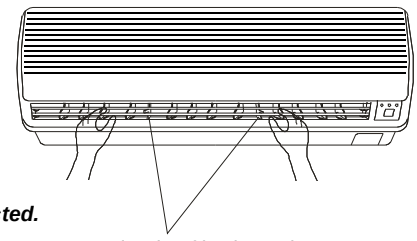
Pressing "SWING" button once, the vertical adjustment louver will swing up and down automatically.

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

SMART mode

Press the **SMART** button, the unit enters smart 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.

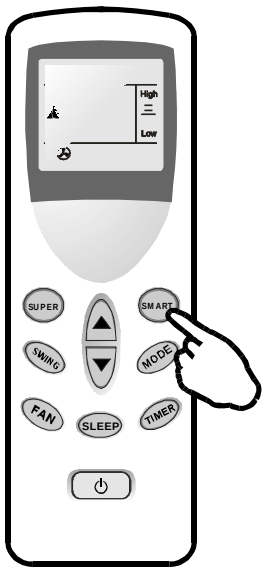
Operation mode and temperature are determined by indoor temperature

Heat pump models

Indoor temperature	Operation mode	Target temperature
21℃ or below	HEATING	22℃
21℃-26℃	DRY	Room temperature decrease 1.5℃ after operate for 3 minutes
Over 26℃	COOLING	26℃

Cooling only models

Indoor temperature	Operation mode	Target temperature
26℃ or below	DRY	Room temperature decrease 1.5℃ after operate for 3 minutes
Over 26℃	COOLING	26℃



SMART button is ineffective in SUPER mode.

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

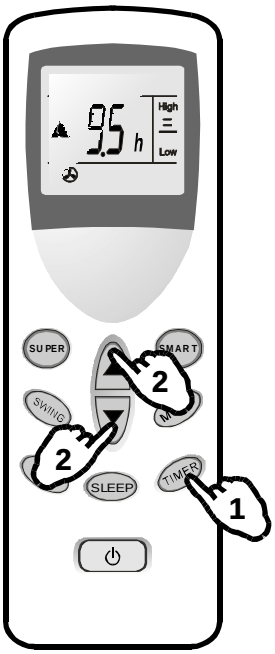
A decrease or increase up to 2℃ can be set in SMART mode

Your feeling	button	adjustment procedure
Slightly warmer A decrease up to 2℃ can be set	▼	A Press once to lower the set temp by 1℃ — High / Low
		B Press twice to lower the set temp by 2 ℃ — High / Low
Slightly cooler A rise up to 2℃ can be set	▲	A Press once to raise the set temp by 1 ℃ — High / Low
		B Press twice to raise the set temp by 2℃. — High / Low
Uncomfortable because of unsuitable air flow volume.	FAN	Indoor fan speed alternates among High, Medium and Low each time this button is pressed.
Uncomfortable because of unsuitable flow direction.	SWING	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.

Operation instructions

Timer mode

It is convenient to set the timer on with **TIMER** button 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.



Timer-setting

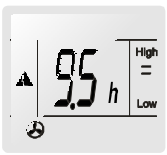
Setting a switch-on timer when the appliance is off.

Setting a switch-off timer during operation.

- **A** As time goes by, LCD on remote controller only displays the remained time instead of set temperature.
- **B** The previous set time is stored and the next set time begins with the previous setting.
- **C** On- timer and off-timer can not be set at the same time.
- **D** The room may not reach your desired temperature within the preset time because of different size of room.

Example: set an operation after 9.5 hours

Set desired operating mode, temperature setting and indoor fan speed firstly, then press the **TIMER** button and "h" flashes on LCD.

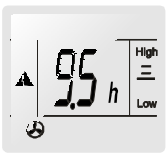


1

Point the remote control at the signal receptor of the indoor unit, press the ▲ or ▼ button when "h" flashes. Choose the timer you want , then press the **TIMER** button.

A "beep" can be heard.

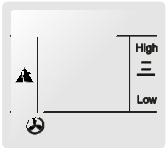
- **A** Timer indicator on the indoor unit lights up.
- **B** "h" stops flashing.



2

*Press the **TIMER** button, "h" flashes on the LCD, then you can set the time.*
Each time the ▲ or ▼ button is pressed,
If the desired time is within 10 hours, the set time increases or decreases by 0.5 hour;
If desired time is beyond 10 hours, increases or decreases by 1 hour.
The range can be set is 0.5 hour to 24 hours.

To cancel the set timer: press the **TIMER** button again, a "beep" can be heard and the timer indicator on the indoor unit swithes off.



3

Operation instructions

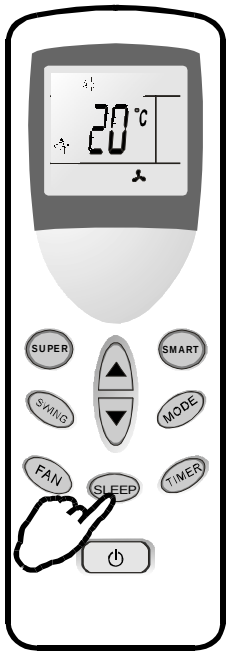
SLEEP mode

SLEEP mode

SLEEP mode can be set in **COOLING** or **HEATING** operation mode.
This function gives you a more comfortable environment for sleeping.
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℃ at most if the appliance operates in cooling mode for 2 hours constantly, then keeps steady.
- Set temperature will decrease by 3℃ 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℃ or above, set temperature will not change.
Note: Heating is NOT available for cooling only air conditioner.



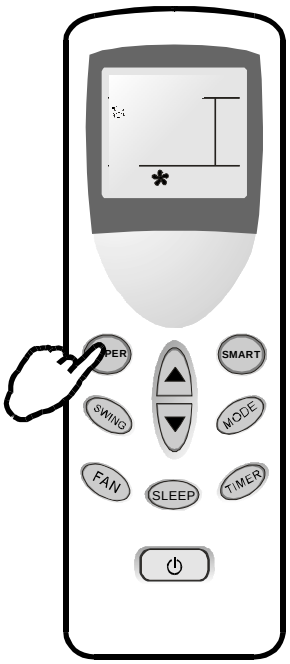
SUPER mode

SUPER mode

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

Note:

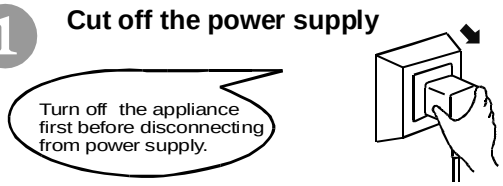
- ***SLEEP and SMART buttons are not available in SUPER mode.***
- ***SUPER button is ineffective in HEATING mode.***
- ***The Appliance will continue working in SUPER mode with set temperature of 18℃, if you don't escape from it by pressing any of the buttons mentioned above.***



Maintenance

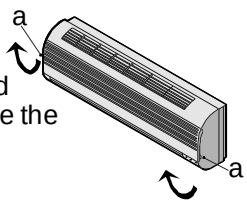
Front panel maintenance

1 Cut off the power supply



2

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

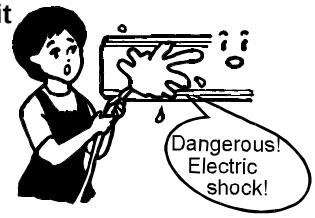


3 Wipe with a soft and dry cloth.

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

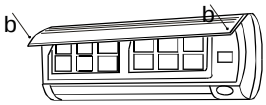
4 Never use volatile substance such as gasoline or polishing powder to clean the appliance.

5 Never sprinkle water onto the indoor unit



6 Reinstall and shut the front panel.

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

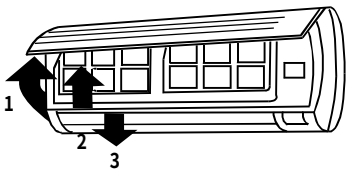


Air filter maintenance

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.

HEATING	Outdoor air temperature is over 32°c
	Outdoor air temperature is below -10°c
	Room temperature is over 32°c
COOLING	Outdoor air temperature is over 50°c
	Room temperature is below 18°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

❶ **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.

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

Features of HEATING mode

Preheat

At the beginning of **HEATING** operation, the airflow from indoor unit is discharged 2-5 minutes later.

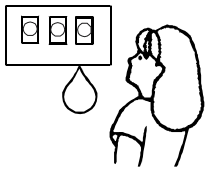
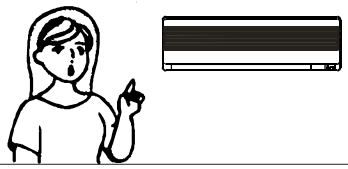
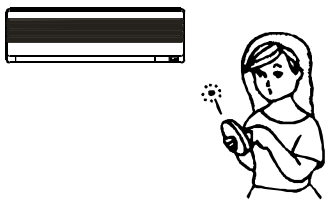
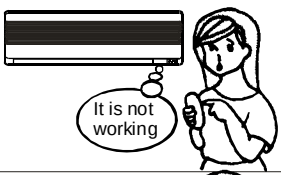
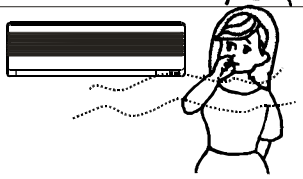
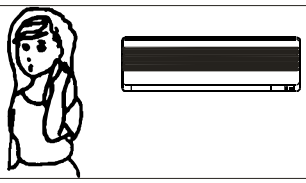
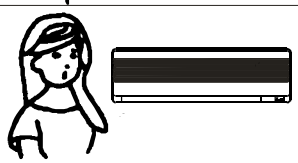
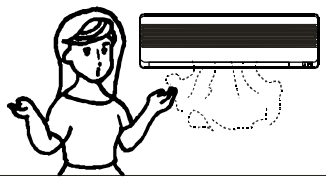
Defrost

In **HEATING** operation the appliance will defrost (de-ice) automatically to raise efficiency. This procedure usually lasts 2-10 minutes. During defrosting, fans stop operation. After defrosting completes, it returns to **HEATING** mode automatically.

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

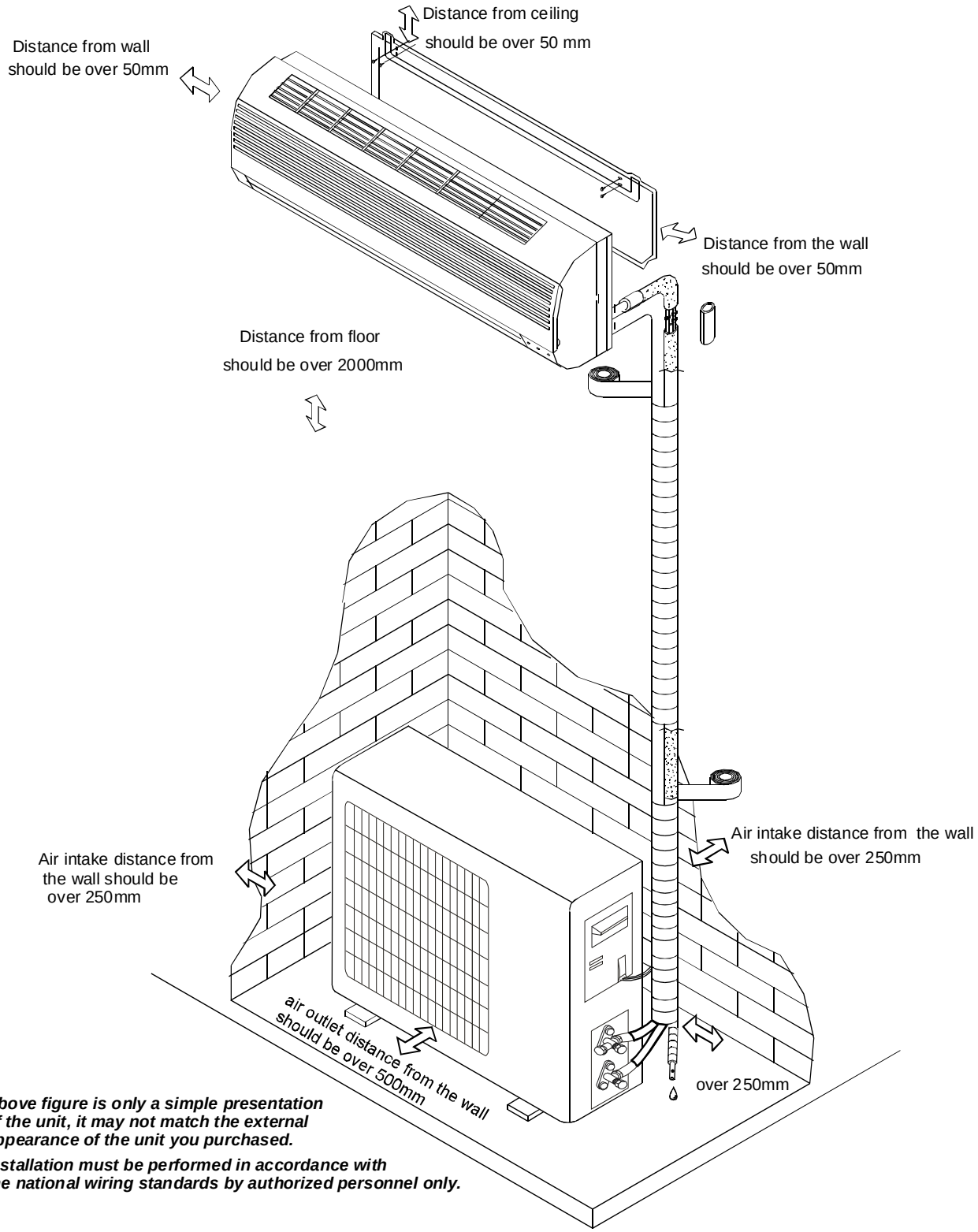
Troubleshooting

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

Trouble	Analysis
Does not run 	• 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.
No cooling or heating air 	• Is the air filter dirty? • Are the intakes and outlets of the air conditioner blocked? • Is the temperature set properly?
Ineffective control 	• 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.
Does not operate immediately 	• Changing mode during operation, 3 minutes will delay.
Peculiar odour 	• This odour may come from another source such as furniture, cigarette etc, which is sucked in the unit and blows out with the air.
A sound of flowing water 	• Caused by the flow of refrigerant in the air conditioner, not a trouble. • Defrosting sound in heating mode.
Cracking sound is heard 	• The sound may be generated by the expansion or contraction of the front panel due to change of temperature.
Spray mist from the outlet 	• Mist appears when the room air becomes very cold because of cool air discharged from indoor unit during **COOLING** or **DRY** operation mode.
The compressor indicator(red) lights on constantly, and indoor fan stops.	• 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



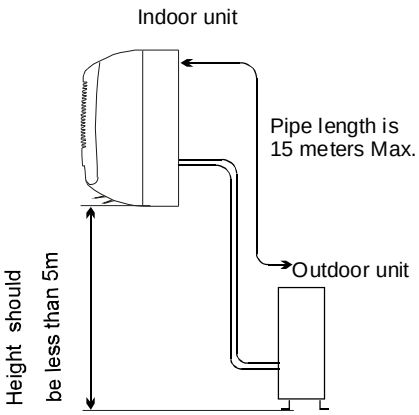
- ***Above figure is only a simple presentation of the unit, it may not match the external appearance of the unit you purchased.***
- ***Installation must be performed in accordance with the national wiring standards by authorized personnel only.***

Installation instructions

Select the best location

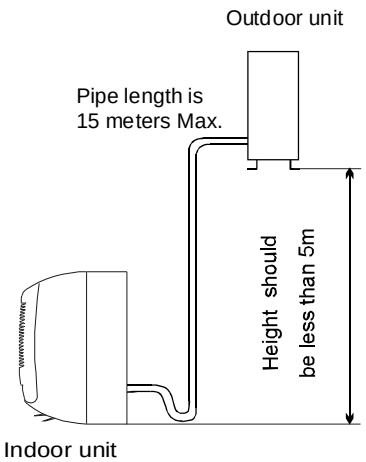
Location for Installing Indoor Unit

- 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.

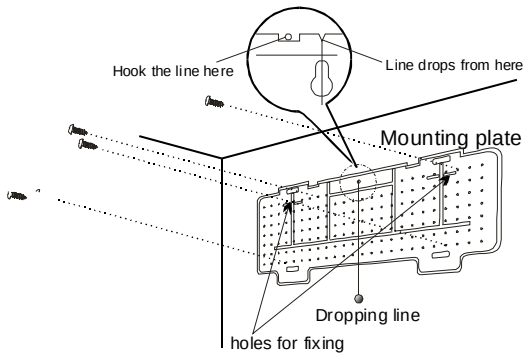


Installation instructions

Indoor unit installation

1. Installing the Mounting Plate

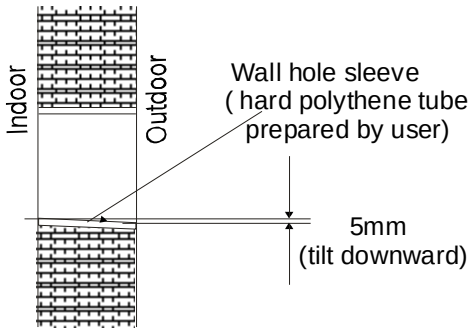
- Decide an installing location for the mounting plate according to the indoor unit location and piping direction.
- Keep the mounting plate horizontally with a horizontal ruler or dropping line.
- Drill holes of 32mm in depth on the wall for fixing the plate.
- Insert the plastic plugs to the hole,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

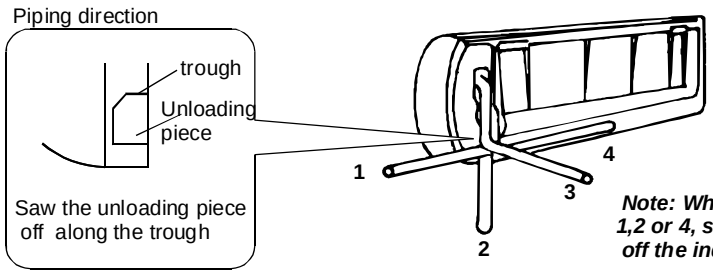
2. Drill a Hole for Piping

- 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)

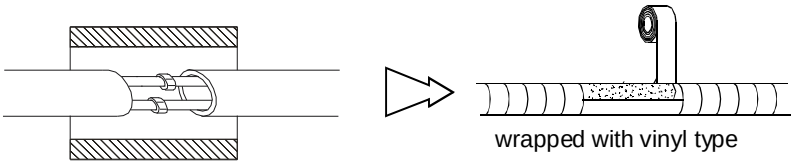


Note: When installing the pipe at the directions 1,2 or 4, saw the corresponding unloading piece off the indoor unit base.

- 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.

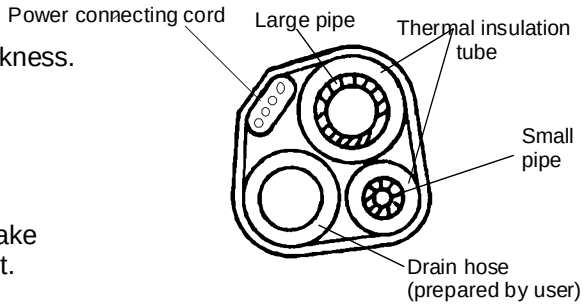
Installation instructions

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



- ***Piping Thermal Insulation:***

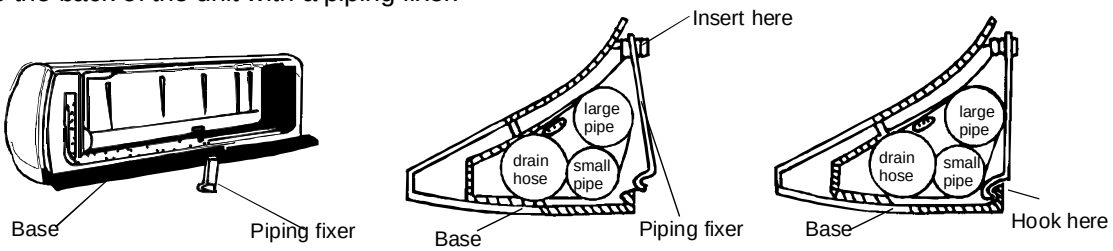
  a. Place the drain hose under the piping.
  b. Insulation material uses polythene foam over 6mm in thickness.
  Note: Drain hose is prepared by user.



- 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.

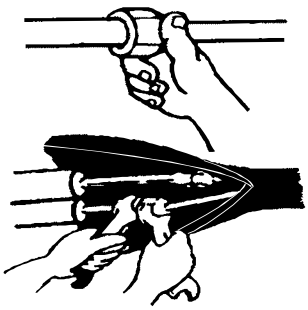


A. Insert the pipe fixer to the slot. B. Press to hook the pipe fixer onto the base.

Piping Connection:

a. 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.

b. 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
9K	Gas Side (3/8 inch)	3.5kg.m	22mm	0.6mm
12K	Gas Side (1/2 inch)	5.5kg.m	24mm	0.6mm

Note: The connection pipe will be provided or purchased by customer.

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.

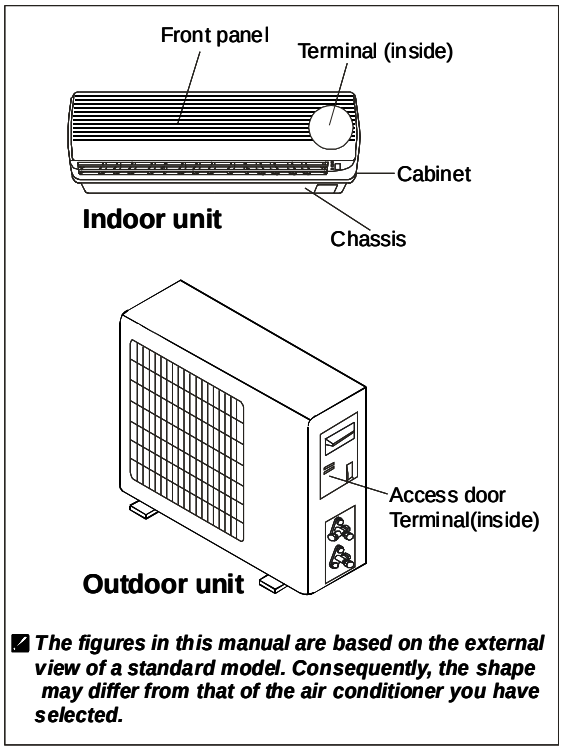
Note: For some models, it is necessary to remove the cabinet to connect to indoor unit terminal.

- ***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.



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.

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.Comfirm 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	
	Type	Normal cross - sectional area	Type	Normal cross - sectional area
9K	H05VV-F	1.5mm^{2}X3	H07RN-F	1.5mm^{2}X4
12K	H05VV-F	1.5mm^{2}X3	H07RN-F	1.5mm^{2}X4

Note: The cable will be provided or purchased by customer.

Attention:

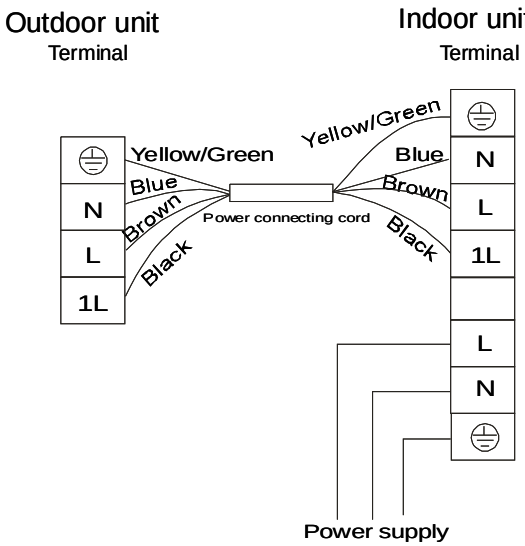
Accessibility to the plug must be guaranteed even after the installation of the appliance to disconnect it in case of need. If not possible, connect appliance to a double-pole switching device with contact separation of at least 3 mm^2 placed in an accessible position even after installation.

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 Model***



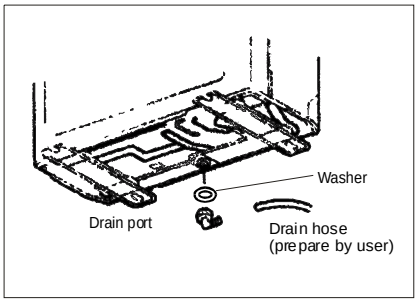
For above models, the power supply are connected from indoor unit, with a plug.

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.

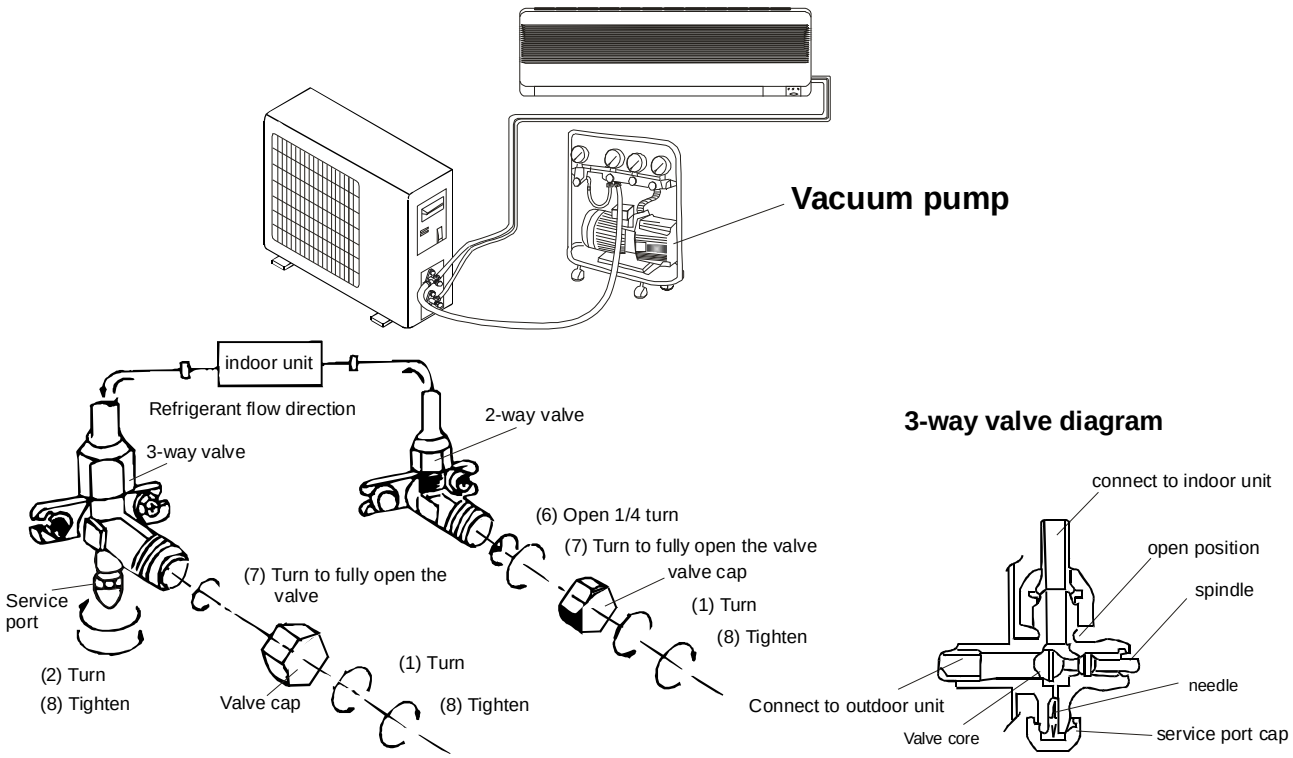
3. Outdoor Unit Piping Connection

- 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.

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.
- When charging refrigerant into the system, make sure to charge in **liquid state**. Otherwise, chemical composition of refrigerant (**R410A**) inside the system may change and thus affect performance of the the air conditioner.
- According to the character of refrigerant (R410A), the pressure of the tube is very high, so be sure to careful when you install and repair the appliance.
- 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 2.5 A,T,250V.
- 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.
- Please pay more attention to the details of 2-way and 3-way valve.
  Service valve:7/16 inch for R410A model.
  Diameter of hexagon(inward): 4mm for R410A model.

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Home Electronics Group

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Version No.819043174-01