

包装通知单

送至部门: 彩电工程部 _____ 生产计划部 _____ 销售中心 _____

采购中心 _____ 彩电物料部 _____ 彩电生产部 _____ 质量中心 _____

物料编号 _____

客户名称 _____

订 单 号 _____

物料名称 _____

C P U 通用 _____

物料名称：空调说明书

材质：70g双胶

尺寸：A5

制图：
结构审核：

美工审核：
电子审核：

美工批准：
DQA审核：

AKAI

SPLIT TYPE AIR CONDITIONER INSTRUCTION MANUAL



This instruction manual contains important information and recommendations that we would ask you to comply with to obtain best results from air conditioner.

Thank you once again.

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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 10mm 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 open fully the valves. Disconnect vacuum pump flexible hose.
- (8) Replace and tighten all valve caps.



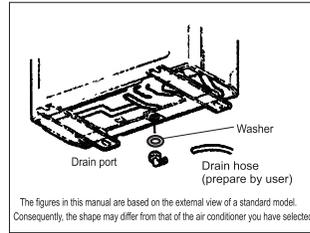
- Please read this manual before installing and using the air conditioner.
- Do not let air enter the refrigeration system or discharge refrigerant when moving the air conditioner.
- Perform a test run on the air conditioner once installation is complete and record the operation details.
- Type of fuse used on indoor unit controller for 7K,9K,12K is 50T, with rating 3.15 A,T,250V. For 18K,22K,24K models use 3.15A,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.
- Accessibility to the plug must be guaranteed even after the installation of the appliance to disconnect it in case of an emergency. If that is not possible, connect the 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

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. Install the drain port and rubber washer to the chassis of the outdoor unit, then connect a drain hose to the port per the figure to the right.



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.

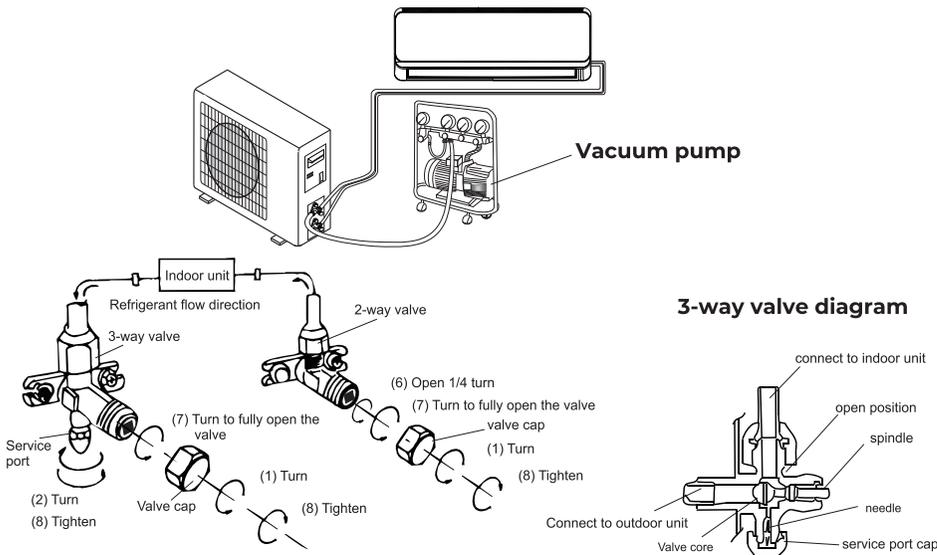
3. Outdoor Unit Piping Connection

- 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.

Safety Precautions

Symbols in this Use and Care Manual are interpreted per below:

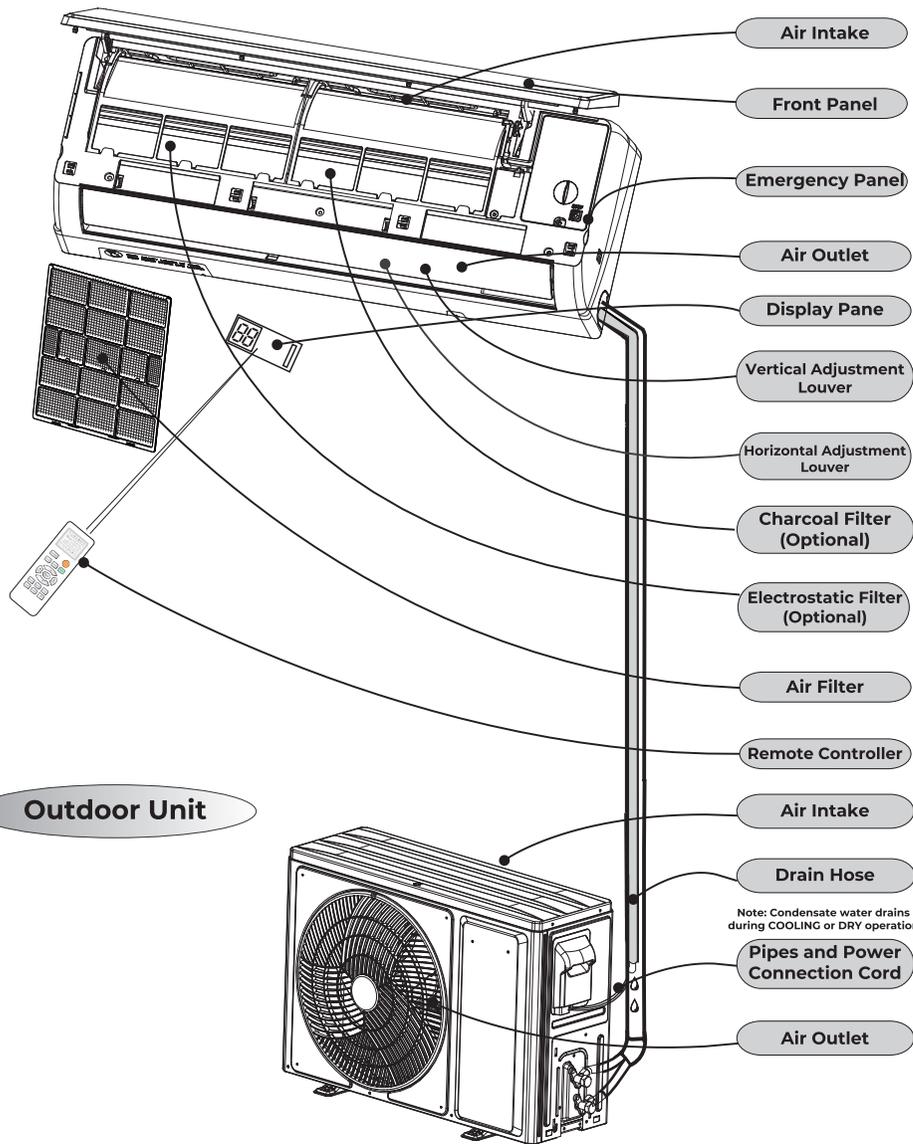
- Action Prohibited!
- Follow Instructions!
- Pay Attention!
- Grounding Essential!
- Warning: Incorrect handling can cause a serious hazard!

- This appliance is not intended for use by persons (including children) with reduced physical, sensory or mental capabilities, or lack of experience and knowledge, unless they are supervised or given instruction concerning use of the appliance by a person responsible for their safety. Children should be supervised to ensure that they do not play with the appliance.
- If the supply cord is damaged, it must be replaced by the manufacturer, its service agent or a similarly qualified person in order to avoid a hazard.
- The appliance shall be installed in accordance with national wiring regulations.

<p>Use the correct power supply in accordance with the rating plate requirements in order to avoid serious faults and fire hazards.</p>	<p>Keep the power supply circuit breaker and plug free from dirt.</p> <p>Connect the power supply cord to the mains power correctly and firmly to avoid an electric shock or fire hazard.</p>	<p>Do not use the power supply circuit breaker or pull sparks, the plug to turn the air conditioner off during operation. This may cause a fire due to spark, etc.</p>
<p>Do not knit, pull or press the power supply cord.</p>	<p>Never insert a stick or similar obstacle into the unit. Since the fan rotates at high speed, this may cause an injury.</p>	<p>It is harmful to your health if to be exposed directly to cool air for a long time. It is advisable to let the air flow to the whole room.</p>
<p>Turn off the appliance using the remote control first then cut off the power supply if a malfunction occurs.</p>	<p>Do not repair the appliance by yourself.</p>	<p>Prevent the air flow from reaching the gas burners and stove.</p>
<p>Do not touch the operation buttons when your hands are wet.</p>	<p>Do not place any objects on the outdoor unit.</p>	<p>It is the user's responsibility to ensure the appliance is grounded according to local codes or ordinances by a licensed technician.</p>

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.

Installation Instructions

4. Connecting 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.
- 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.
- 4). Use a recognized circuit breaker for 24K model between the power source and the unit. A disconnecting device to adequately disconnect all supply lines must be fitted.

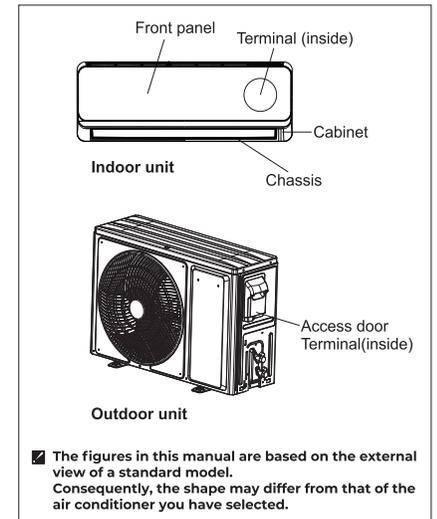
Caution:

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		Power connecting cord1 (for heat pump)	
	Type	Normal cross-sectional area	Type	Normal cross-sectional area	Type	Normal cross-sectional area
5K / 7K / 9K / 12K	H05VV-F	3*1.0mm ²	H07VV-F	3*1.0mm ² Or 4*1.0mm ²	H05RN-F	2*0.75mm ²
12K / 18K	H05VV-F	3*1.5mm ²	H07VV-F	3*1.5mm ² Or 4*1.5mm ²	H05RN-F	2*0.75mm ²
18K	H05VV-F	3*2.5mm ²	H07VV-F	3*2.5mm ² Or 4*2.5mm ²	H05RN-F	2*0.75mm ² Or 3*0.75mm ²
22K / 24K	H05VV-F	3*2.5mm ²	H07VV-F	3*2.5mm ² Or 4*2.5mm ²	H05RN-F	3*0.75mm ²

Note: Above cables shall be approved by VDE.

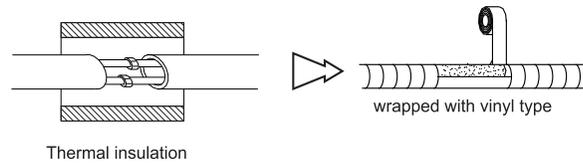


Installation Instructions

Note

● Piping Joints Thermal Insulation:

Wrap the piping joints with thermal insulation materials and then wrap with a vinyl tape.

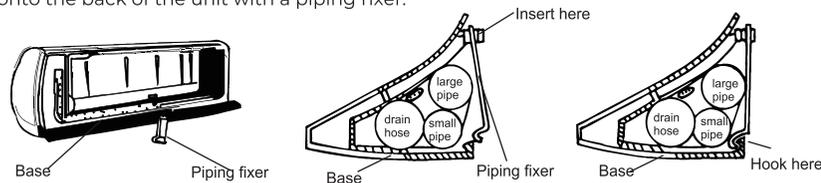
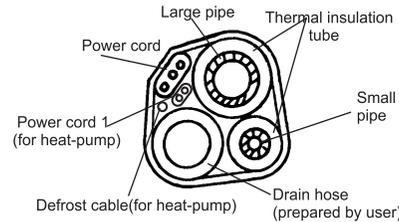


● Piping Thermal Insulation:

- Place the drain hose under the piping.
- Insulation material uses polythene foam over 6mm in thickness.

Please note: Drain hose is prepared by user.

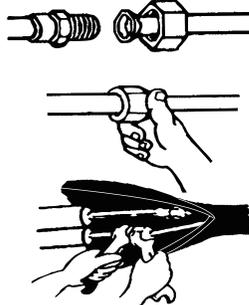
- Drain pipe should point downward for easy drain flow. twist the drain pipe or allow it to stick out or wave around. Do not immerse the end of it in water.
- If an extension drain hose is connected to the drain pipe, make sure to thermal insulate when passing along the indoor unit.
- When the piping 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:

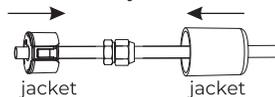
- Connect indoor unit pipes with two wrenches. Pay special attention to the allowed torque as shown below to prevent the pipes, connectors and flare nuts from being deformed and damaged.
- Pre-tighten them with fingers at first, then use the wrenches.



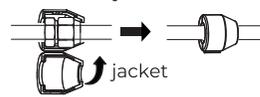
Pipe size	Torque	Nut width
Liquid Side (ϕ 6 or 1/4 inch)	1.8kg.m	17mm
Liquid Side (ϕ 9 or 3/8 inch)	3.5kg.m	22mm
Gas Side (ϕ 9 or 3/8 inch)	3.5kg.m	22mm
Gas Side (ϕ 12 or 1/2 inch)	5.5kg.m	24mm
Gas Side (ϕ 16 or 5/8 inch)	7.5kg.m	27mm

NOTE R32 air conditioner must connect jacket.

Connect jacket mode 1

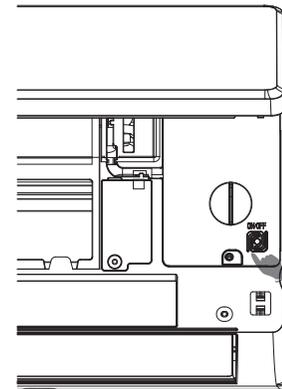


Connect jacket mode 2

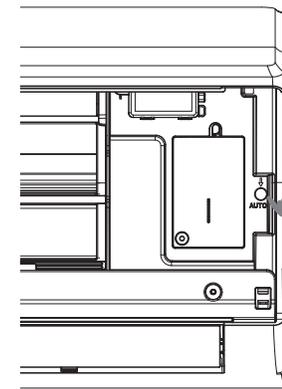


Identification of Parts

Operating and Display



Emergency button
Used to control the unit when the remote controller is out of work.



Emergency button
Used to control the unit when the remote controller is out of work.

Auto-restart Presetting:

The appliance is preset with an auto-restart function the manufacturer.

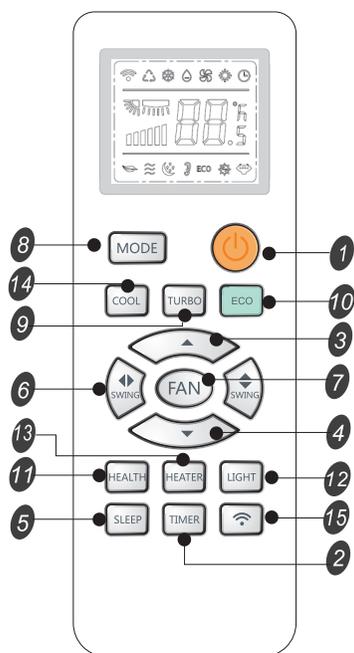
If the auto-restart function is not needed, the steps below to cancel it:

- 1) Make sure the air conditioner is turned on;
- 2) Press the Sleep button 10 times in 8 seconds until 3 short beeps are heard then the auto-restart function will be cancelled. To activate the auto-restart function, repeat please align procedure until 4 short beeps are heard.

⚠ The shape and position of the switches and indicators may vary between different models, but their functions are similar.

Remote Control

The remote controller transmits signals to the system.



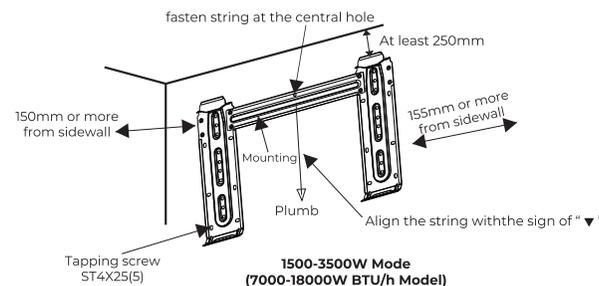
- 1 ON/OFF button**
Used to start and stop operation.
- 2 TIMER button**
Used to select timer operation.
- 3 UP button (TOO COOL button)**
Used to increase the set room temperature and time.
- 4 DOWN button (TOO WARM button)**
Used to decrease the set room temperature and time.
- 5 SLEEP button**
Used to set or cancel sleep mode operation.
- 6 SWING control button**
Used to adjust airflow direction.
- 7 FAN SPEED control button**
Used to select the indoor fan motor speed:Auto, High, Mid or Low.
- 8 MODE button**
Used to select the type of operation mode: Feel, Cooling, Dry, Fan or Heating(Only for Heat Pump).
- 9 SUPER/TURBO button**
Used to set or cancel superstrong mode operation.
- 10 ECO button**
Used to set or cancel economic mode operation.
- 11 HEALTH button**
Used to set or cancel health mode operation (only for specific models).
- 12 LIGHT button**
Used to set or cancel the indoor unit light display.
- 13 HEATER button**
Used to activate or cancel heating mode.
- 14 COOL button**
Used to activate or cancel cool mode.
- 15 WIFI button**
Used to connect to the network.

Installation Instructions

Indoor Unit Installation

1. Installing the Mounting Plate

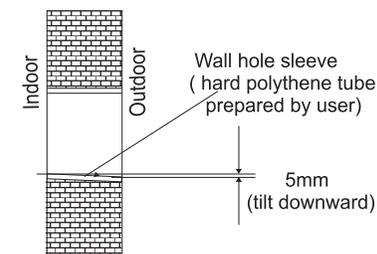
- Select an installation location for the mounting plate according to the indoor unit location and piping direction.
- Keep the mounting plate horizontally with a horizontal ruler or dropping line.
- Drill holes of 32mm in depth on the wall to fix the plate.
- Insert the plastic plugs in the hole and fix the mounting plate with tapping screws.
- Inspect if the mounting plate is well fixed. Then drill a hole for piping.
- Distance from floor should be over 2500mm.



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

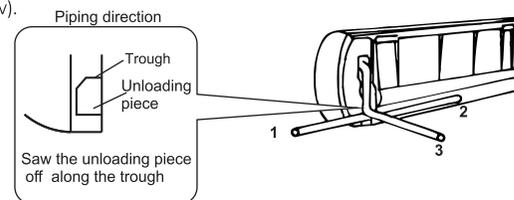
2. Drill a Hole for Piping

- Select 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

- Place 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 in the directions of 1 or 2, saw the corresponding unloading piece off the indoor unit base.

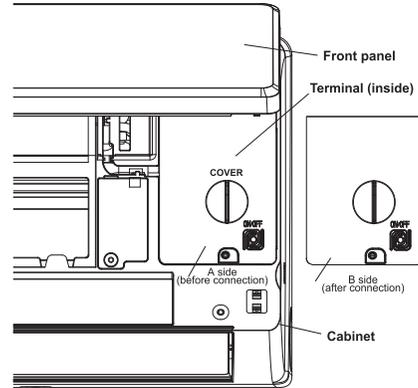
- After connecting piping as required, install the drain hose. Then connect the power cords. After connecting, wrap the piping, cords and drain hose together with thermal insulation materials.

Installation Instructions

Connecting the Cables

Wiring between the indoor and outdoor units:

- 1) Remove the PCB cover from the indoor unit;
- 2) Refer to the wiring diagram attached to indoor unit when connecting cords to indoor unit terminals;
- 3) Reinstall the PCB cover. Ensure that B side is outside.

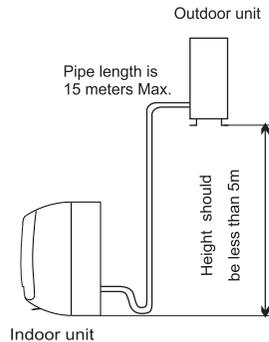
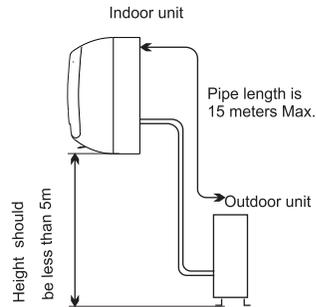


Selecting the Best Location

Location for Installing Indoor Unit

- 1) Where there is no obstacle near the air outlet and air can be easily blown to every corner.
- 2) Where piping and wall hole can be easily arranged.
- 3) Where you can keep the required space from the unit to the ceiling and wall according to the wiring diagram.
- 4) Where the air filter can be easily removed.
- 5) Where you can keep the unit and remote control 1m or more apart from television, radio etc.
- 6) Where you can keep the unit as far away from fluorescent lamps as possible.
- 7) Where there is nothing near the air inlet to obstruct it from air absorption.
- 8) Where there is strong enough to bear the weight and is not tend to increase operation noise and vibration.

Installation Diagram



Location for Installing Outdoor Unit

- 1) Where it is convenient to install and well ventilated; avoid installing it where flammable gas could leak.
- 2) Where you can keep the required distance from the wall.
- 3) Where you can keep it away from greasy dirt and highly salty seashores.
- 4) Where you can keep it from muddy water.
- 5) Where there is not any blockage for air outlet.

Remote Control

How to Insert the Batteries

Remove the battery cover according to the arrow direction.

Insert new batteries making sure that the (+) and (-) of the batteries are matched correctly.

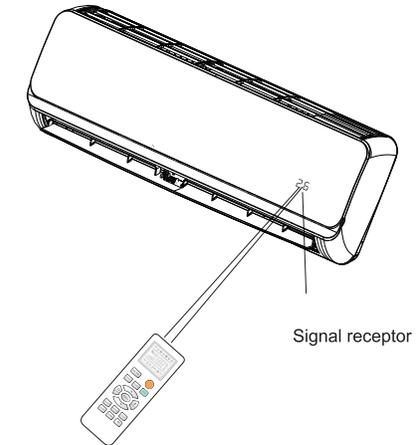
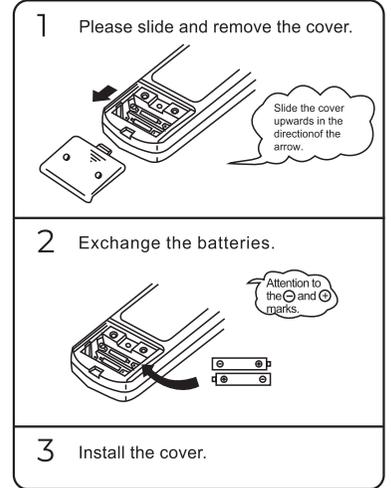
Reattach the cover by sliding it back into position.

Please 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.

Storage and Tips for Using the Remote Control

Keep the remote control safe and dry when it is out of use.



How to Use

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

Operation Instructions

AUTO Mode Operation Procedure

This function automatically selects the operation mode (Heat/Dry/Fan/Cooling) depending on the room temperature when the air conditioner is switched on.

With the remote control pointing towards the air conditioner:

Turning on

Press  button. When the appliance receives the signal, the RUN indicator of the indoor unit will light up. **1**

When the unit is not in AUTO mode:

Selecting AUTO mode

Press the MODE select button.
Move the MODE to the  position. **2**

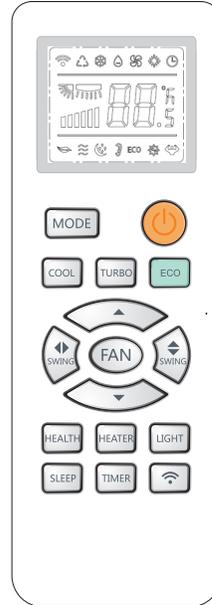
Operation mode and temperature are determined by indoor temperature

Indoor temperature	Operation mode	Target temperature
Less than 20°C	HEATING FOR HEAT PUMP TYPE FAN FOR COOL ONLY TYPE	23°C
20°C~26°C	DRY	Indoor temperature -2°C
Over 26°C	COOLING	23°C

Air temperature adjustment is possible even during AUTO operation. There are 6 levels of adjustment possible with the + button or the - button.

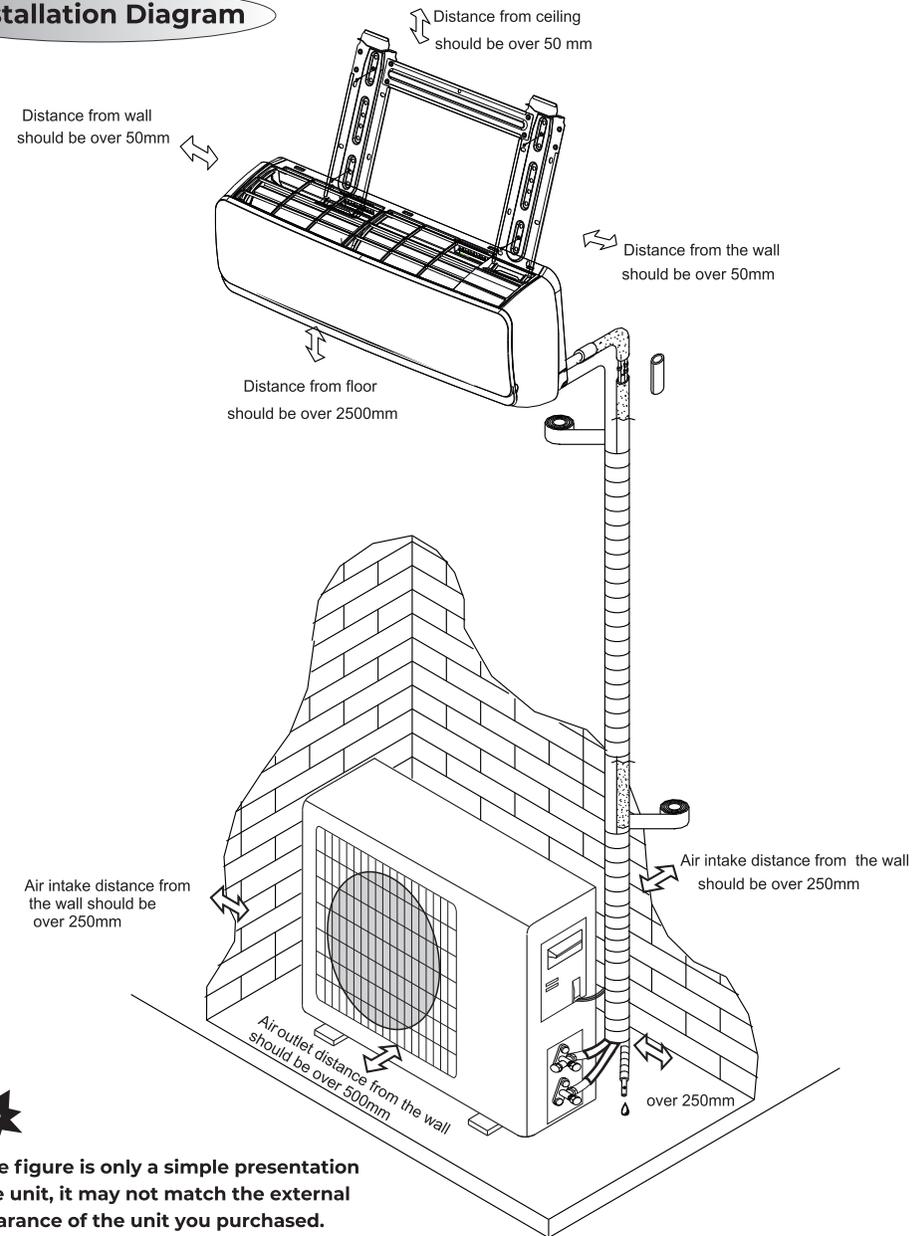
Setting temperature

Press the + or - button.
When the + button is pushed, the temperature will increase by 1°C. When the - button is pushed, the temperature will reduce by 1°C. **3**



Installation Instructions

Installation Diagram

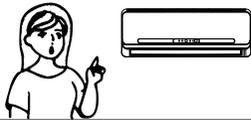
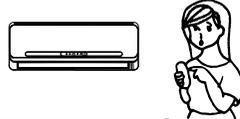
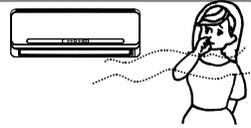
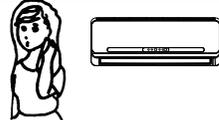
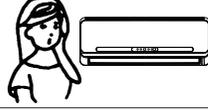
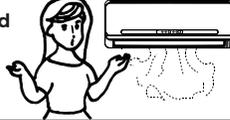


Note

- 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

Troubleshooting

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

Trouble	Analysis
Does not run 	<ul style="list-style-type: none"> The plug is not properly plugged in. The batteries in the remote control are dead. Please replace with the new ones. The protective device has been activated. The protector has tripped or a fuse has blown.
No cooling or heating air 	<ul style="list-style-type: none"> Are the intakes and outlets of the air conditioner blocked? Is the temperature set properly? Is the air filter dirty?
Ineffective control 	<ul style="list-style-type: none"> If strong interference (from excessive static electricity discharge, power supply voltage abnormality) occurs, operation will be abnormal. At this time, disconnect from the power supply and connect back 2-3 seconds later.
Does not operate immediately 	<ul style="list-style-type: none"> When you change modes during operation, there will be a 3 minute delay.
Peculiar odor 	<ul style="list-style-type: none"> This odor may come from another source such as furniture, cigarette etc, which has been sucked in the unit and being blown out with the air.
Flowing water sound is heard 	<ul style="list-style-type: none"> This can be caused by the flow of refrigerant in the air conditioner - it is not a problem. Defrosting sound in heating mode.
Cracking sound is heard 	<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.
Mist is being sprayed from the outlet 	<ul style="list-style-type: none"> Mist appears when the room air becomes very cold because of cool air discharge from indoor unit during COOLING or DRY operation mode.
The compressor indicator (red) light is on constantly and the indoor fan stops.	<ul style="list-style-type: none"> The unit is shifting from heating mode to defrost. The indicator light will switch off within ten minutes and return to heating mode.

Operation Instructions

TIMER Mode

It is convenient to set the timer on when you go out in the morning to achieve a comfortable room temperature for when you get home. You can also set timer off at night to enjoy a good sleep.

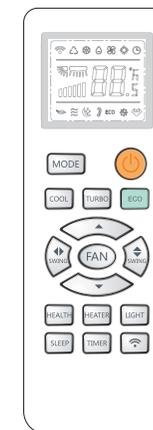
TIMER-setting

When the remote control is off, press the **TIMER** button to set a switch-on timer. Press again to cancel this setting.



When the remote control is off, press the **TIMER** button to set a switch-on timer. Press again to cancel this setting.

Press **UP** and **DOWN** button to set time.



Please note:

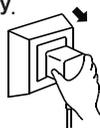
Once you have set the timer, make sure that the TIMER indicator lamp on the indoor unit is lit up.

Maintenance

Front panel maintenance

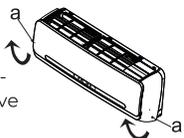
1 Cut off the power supply.

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 substances such as gasoline or polishing powder to clean the appliance.

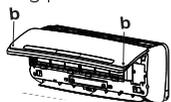


5 Never sprinkle water onto the indoor unit.



6 Reinstall and shut the front panel.

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

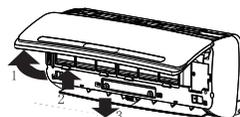


Air filter maintenance

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 the 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 may trip and stop the appliance in the cases listed below:

HEATING	Outdoor air temperature is over 24°C
	Outdoor air temperature is below -7°C
	Room temperature is over 27°C
COOLING	Outdoor air temperature is over *43°C
	Room temperature is over 32°C
DRY	Room temperature is below 18°C

* For Tropical (T3) Climate condition models, the temperature point is 52°C instead of 43°C.

If the air conditioner runs in COOLING or DRY mode with a 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 in a place that can bear its weight in order to operate more quietly.
- Install the outdoor unit where the air discharged and the operation noise will 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

While in protection mode, please note the following:

1. * Wait at least 3 minutes before trying to restart or change modes.
* When connecting to the power supply, please wait at least 20 seconds prior to switching on the unit.
2. * If all operations have stopped, press the ON/Off button to restart.
* If timer has canceled, this will need to reset.

Inspection

After using for a long time, the air conditioner should be inspected as follows:

- 1) Check that the power supply cord and plug have not overheated.
- 2) Check if there is an abnormal sound or vibration when the unit is operating.
- 3) Check if there is water leakage from the indoor unit.
- 4) Check if the metal cabinet has been electrified.

⚠ Stop the air conditioner immediately if any of the above occurs. It is advisable to have a detail inspection after using it for 5 years even if none of the above occurs.

Features of HEATING mode

Preheat

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

Afterheat

After the finishing of HEATING operation, the airflow from indoor unit is discharged 2-5 minutes.

Defrost

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

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