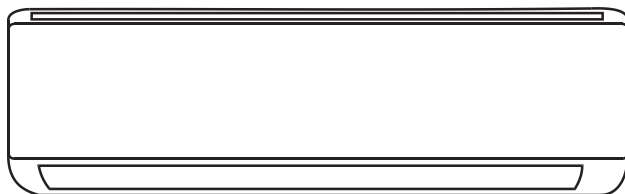




Split Type Heat Pump Air Conditioner with Wi-Fi Control

INSTRUCTION MANUAL



This instruction manual contains important information and recommendations that we would ask you to comply with to obtain the best results from your new mini split unit.

Si desea, puede obtener este manual en español en
www.classic-america.com

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* The design and specifications are subject to change without prior notice for product improvement. Consult with the sales agency or manufacturer for details.

* The shape and position of buttons and indicators may vary according to the model, but their function are the same.

SAFETY PRECAUTIONS

SAFETY RULES AND RECOMMENDATIONS FOR THE INSTALLER

1. **R**ead this guide before installing and using the appliance.
2. **D**uring the installation of the indoor and outdoor units, access to the working area should be forbidden to children. Unforeseeable accidents could happen.
3. **M**ake sure that the base of the outdoor unit is firmly fixed.
4. **C**heck that air cannot enter the refrigerant system and check for refrigerant leaks when moving the air conditioner.
5. **C**arry out a test cycle after installing the air conditioner and record the operating data.
6. **E**nsure that the mains voltage corresponds to that stamped on the rating plate.
7. **T**he appliance must be fitted with means for disconnection from the supply mains having a contact separation in all poles that provide full disconnection under "over voltage category III conditions", and these means must be incorporated in the fixed wiring in accordance with the wiring rules.
8. **T**he air conditioner must be installed by professional or qualified persons.
9. **D**o not install the appliance at a distance of less than 50 cm (20 inches) from inflammable substances (alcohol, etc.) or from pressurized containers (e.g. spray cans).
10. **I**f the appliance is used in areas without the possibility of ventilation, precautions must be taken to prevent any leaks of refrigerant gas from remaining in the environment and creating a danger of fire.
11. **T**he packaging materials are recyclable and should be disposed of in the separate waste bins.
Take the air conditioner at the end of its useful life to a special waste collection center for disposal.
12. **O**nly use the air conditioner as instructed in this booklet. These instructions are not intended to cover every possible condition and situation. As with any electrical household appliance, common sense and caution are therefore always recommended for installation, operation and maintenance.
13. **T**he appliance must be installed in accordance with applicable national regulations.
14. **B**efore accessing the terminals, all the power circuits must be disconnected from the power supply.
15. **T**he appliance shall be installed in accordance with national wiring regulations.
16. **T**his appliance can be used by children aged from 8 years and above and persons with reduced physical, sensory or mental capabilities or lack of experience and knowledge if they have been given supervision or instruction concerning use of the appliance in a safe way and understand the hazards involved. Children shall not play with the appliance. Cleaning and user maintenance shall not be carried out by children without supervision.

SAFETY PRECAUTIONS

SAFETY RULES AND RECOMMENDATIONS FOR THE INSTALLER

17. **D**o not try to install the conditioner alone, always contact specialized technical personnel.
18. **C**leaning and maintenance must be carried out by specialized technical personnel. In any case disconnect the appliance from the mains electricity supply before carrying out any cleaning or maintenance.
19. **E**nsure that the mains voltage corresponds to that stamped on the rating plate.
20. **T**his appliance has been made for air conditioning domestic environments and must not be used for any other purpose, such as for drying clothes, cooling food, etc.
21. **A**lways use the appliance with the air filter mounted. The use of the conditioner without air filter could cause an excessive accumulation of dust or waste on the inner parts of the device with possible subsequent failures.
22. **T**he user is responsible for having the appliance installed by a qualified technician, who must check that earthing/grounding is done in accordance with current legislation and insert a thermomagnetic circuit breaker.
23. **T**he batteries in the remote controller must be recycled or disposed of properly. For disposal of scrap batteries, please discard the batteries as sorted municipal waste at the accessible collection point.
24. **N**ever remain directly exposed to the flow of cold air for a long time. The direct and prolonged exposure to cold air could be dangerous for your health. Particular care should be taken in the rooms where there are children, old or sick people.
25. **I**f the appliance gives off smoke or there is a smell of burning, immediately cut off the power supply and contact the Service Center. The prolonged use of the device in such conditions could cause fire or electrocution.
26. **H**ave repairs carried out only by an authorised Service Center of the manufacturer. Incorrect repair could expose the user to the risk of electric shock, etc.
27. **U**nhook the automatic switch if you foresee not using the device for a long time. The airflow direction must be properly adjusted.
28. **T**he flaps must be directed downwards in the heating mode and upwards in the cooling mode.
29. **E**nsure that the appliance is disconnected from the power supply when it will remain inoperative for a long period and before carrying out any cleaning or maintenance.
30. **S**electing the most suitable temperature can prevent damage to the appliance.

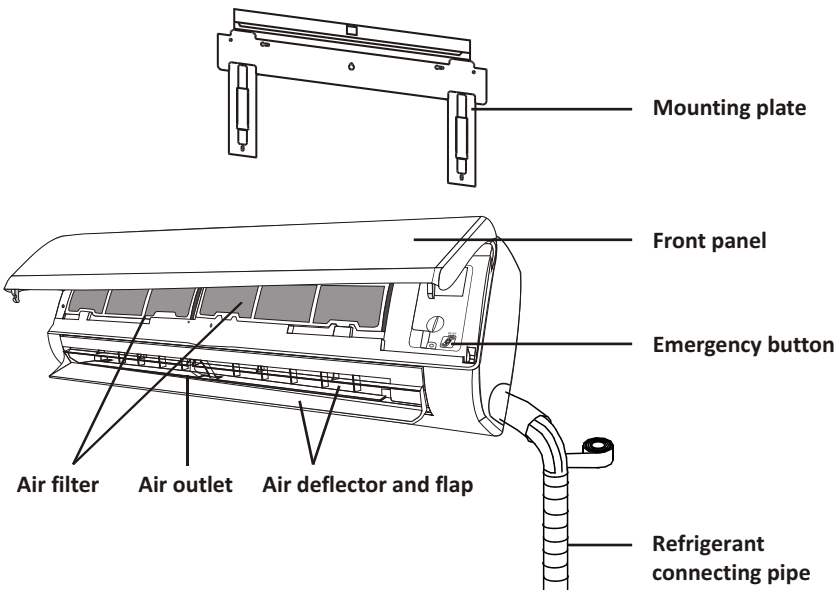
SAFETY PRECAUTIONS

SAFETY RULES AND PROHIBITIONS

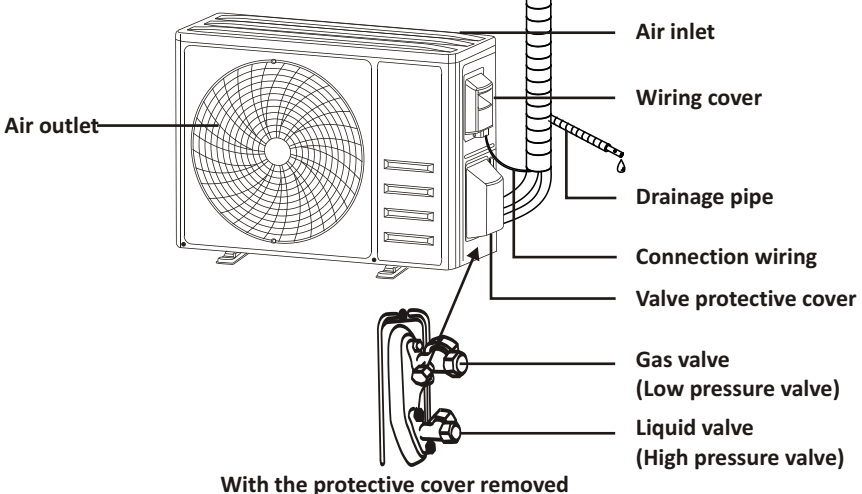
1. **D**o not bend, tug or compress the power cord since this could damage it. Electrical shocks or fire are often due to a damaged power cord. Only specialized technical personnel must replace a damaged power cord. If the supply cord is damaged, it must be replaced by a qualified person in order to avoid a hazard.
2. **D**o not touch the appliance when barefoot or parts of the body are wet or damp.
3. **D**o not obstruct the air inlet or outlet of the indoor or the outdoor unit. The obstruction of these openings causes a reduction in the operating efficiency of the conditioner with possible consequent failures or damages.
4. **I**n no way alter the characteristics of the appliance.
5. **D**o not install the appliance in environments where the air could contain gas, oil or sulphur or near sources of heat.
6. **D**o not climb onto or place any heavy or hot objects on top of the appliance.
7. **D**o not leave windows or doors open for long when the unit is operating.
8. **D**o not direct the airflow onto plants or animals.
9. **A** long direct exposure to the flow of cold or hot air of the conditioner could have negative effects on plants and animals.
10. **D**o not put the unit in contact with water. The electrical insulation could be damaged and thus causing electrocution.
11. **N**ever insert a stick or similar object into the appliance. It could cause injury.
12. **C**hildren should be supervised to ensure that they do not play with the appliance.

NAME OF PARTS

Indoor Unit



Outdoor Unit



Note: This figure shown may be different from the actual object. Please take the latter as the standard.

NAME OF PARTS

Indoor Display



No.	LED	Function
1		Indicator for Timer, temperature and Error codes.
2	 	Lights up during Timer operation.
3		SLEEP mode

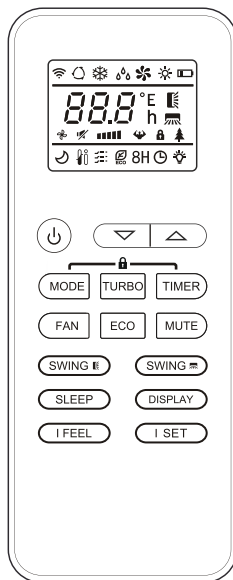


The shape and position of switches and indicators may be different according to the model, but their function is the same.

REMOTE CONTROL

Remote control DISPLAY

No.	Symbols	Meaning
1		Battery indicator
2		Auto Mode
3		Cooling Mode
4		Dry Mode
5		Fan only Mode
6		Heating Mode
7		ECO Mode
8		Timer
9		Temperature indicator
10		Fan speed: Auto/ low/ low-mid/ mid/ mid-high/ high
11		Mute function
12		TURBO function
13		Up-down auto swing
14		Left-right auto swing
15		SLEEP function
16		Health function
17		I FEEL function
18		8°C heating function
19		Signal indicator
20		Gentle wind
21		Child-Lock
22		Display ON/OFF



The display and some functions of the remote control may vary according to the model.

REMOTE CONTROL

No.	Button	Function
1		To turn on/off the air conditioner .
2	^	To increase temperature, or Timer setting hours.
3	∨	To decrease temperature, or Timer setting hours.
4	MODE	To select the mode of operation (AUTO, COOL, DRY, FAN, HEAT).
5	ECO	To activate/deactivate the ECO function.
		Long press to activate/deactivate the 8°C(46°F) heating function (depending on models).
6	TURBO	To activate/deactivate the TURBO function, long press to change from °C→°F→°C.
7	FAN	To select the fan speed of auto/low/mid/high.
8	TIMER	To set the time for timer on/off.
9	SLEEP	To switch-on/off the SLEEP function.
10	DISPLAY	To switch-on/off the LED display.
11	SWING 	To stop or start horizontal flaps louver movement or set the desired up/down air flow direction.
12	SWING 	To stop or start vertical deflectors louver movement or set the desired left/right air flow direction.
13	I FEEL	To switch-on/off the I FEEL function.
14	MUTE	To switch-on/off the MUTE function.
15	MODE + TIMER	To activate/deactivate the CHILD-LOCK function.
16	SWING  + SWING 	To activate/deactivate the SELF-CLEAN function (depending on models).
17	I SET	To memorize the set temperature, set mode and set fan speed.

⚠ The display and some functions of the remote control may vary according to the model.

⚠ The shape and position of buttons and indicators may vary according to the model, but their function is the same.

⚠ The unit confirms the correct reception of each button with a beep.

REMOTE CONTROL

Replacement of Batteries

Remove the battery cover plate from the rear of the remote control by sliding it in direction as the arrow.

Install the batteries according the direction (+ and -)shown on the Remote Control.

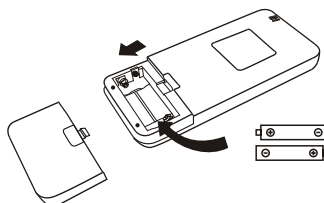
Reinstall the battery cover by sliding it into place.

⚠ Use 2 pieces LRO3 AAA (1.5V) batteries.

Do not use rechargeable batteries.

Replace the old batteries with new ones of the same type when the display is no longer legible or the battery indicator shows low charge.

Dispose of the batteries according to local regulations.



⚠ You can change the temperature display unit between °C and °F.

1. Press and hold the **TURBO** button over 5 seconds to get into the change mode;
2. Press and hold the **TURBO** button, until it switches to °C or °F;
3. Then release and wait for 5 seconds, the new unit will be selected.

Note:

1. Direct the remote control toward the Air conditioner.
2. Check that there are no objects between the remote control and the Signal receptor in the indoor unit.
3. Never leave the remote control exposed to the rays of the sun.
4. Keep the remote control at a distance of at least 1m from the television or other electrical appliances.

REMOTE CONTROL

COOLING MODE

COOL ❄️

The cooling function allows the air conditioner to cool the room and reduce Air humidity at the same time.

To activate the cooling function (COOL), press the **MODE** button until the symbol ❄ appears on the display.

With the button ∇ or $\wedge$ set a temperature lower than that of the room.

FAN MODE (Not FAN button)

FAN

Fan mode, air ventilation only.

To set the FAN mode, press **MODE** until  appears on the display.

DRY MODE

DRY 

This function reduces the humidity of the air to make the room more comfortable.

To set the DRY mode, Press **[MODE]** until  appears in the display. An automatic sequence of operation is activated.

AUTO MODE

AUTO

Automatic mode.

To set the AUTO mode, press **MODE** until  appears on the display.

In AUTO mode the run mode will be set automatically according to the room temperature.

HEATING MODE

HEAT 

The heating function allows the air conditioner to heat the room.

To activate the heating function (HEAT), press the **MODE** button until the symbol ☀ appears on the display.

With the button  or  set a temperature higher than that of the room.

 In HEATING operation, the appliance can automatically activate a defrost cycle, which is essential to clean the frost on the condenser, so as to recover its heat exchange function. This procedure usually lasts for 2-10 minutes. During defrosting, the indoor unit fan stops operating. After defrosting, the unit returns to HEATING mode automatically.

 If necessary, you can press ECO button 10 times within 8 seconds under heating mode to start the forced defrosting. It will defrost the outdoor ice much faster.

The display will show a defrost code. After defrosting the unit returns to HEAT mode automatically

FAN SPEED function (FAN MODE)

FAN 

Changes the operating fan speed.

Press **FAN** button to set the running fan speed. It can be set to AUTO/ MUTE/ LOW/ LOW-MID / MID/ MID-HIGH/ HIGH/ TURBO speed in a rotating pattern as shown below.



Child-Lock function

1. Long press **MODE** and **TIMER** buttons together to activate this function, and repeat to deactivate this function.
2. While locked, all buttons on the remote become inactive.

REMOTE CONTROL

TIMER function ---- TIMER ON



To automatically switch on the appliance after some time.

When the unit is off, you can set the TIMER ON. To set the time of automatic switch-on proceed as below:

1. Press the **TIMER** button for the first time to set the switch-on, and will flash on the remote display, the first time, or the previous setting.
2. Press or buttons to set after how long the unit will switch-on. You can keep increasing or decreasing the time when the digits are flashing.
3. Wait till the digits stop flashing and appear steady on the remote display to confirm.
4. After Timer-on setting, set the needed mode (Cool/ Heat/ Auto/ Fan/ Dry), by pressing the **MODE** button. And set the needed fan speed, by pressing the **FAN** button. And press or to set the needed operation temperature.

CANCEL the scheduled switch-on by pressing the **TIMER** button.

TIMER function ---- TIMER OFF



To automatically switch off the appliance after some time.

When the unit is on, you can set the TIMER OFF. To set the time of automatic switch-off.

1. Confirm the appliance is ON.
2. Press the **TIMER** button for the first time to set the switch-off time.
Press or to set after how long the unit will switch-off.
3. Press **TIMER** button at the second time to confirm.
CANCEL the scheduled switch-off by pressing the **TIMER** button again.

Note: All programming should be carried out within 5 seconds, otherwise the setting will be cancelled.

SWING function



1. Press the button **SWING** to activate the louver,
 - 1.1 Press to activate the horizontal flaps to swing up and down, the will appear on the remote display.
Press again to stop the swing movement at the current angle.
 - 1.2 Press to activate the vertical deflectors to swing from left to right, the will appear on the remote display.
Press again to stop the swing movement at the current angle.
2. Pressing horizontal SWING and vertical SWING together while the unit is OFF will activate the Self-Clean function.

- Never position the “Flaps” manually, the delicate mechanism might get seriously damaged!
- Never put fingers, sticks or other objects into the air inlet or outlet vents. Such accidental contact with live parts might cause unforeseeable damage or injury.

TURBO function



To activate turbo function, press the **TURBO** button, and will appear on the display. Press again to cancel this function.
In COOL/ HEAT mode, when you select TURBO feature, the appliance will turn to quick COOL or quick HEAT mode, and operate the highest fan speed for strong airflow.

REMOTE CONTROL

MUTE function

MUTE

1. Press **MUTE** button to activate this function, and  will appear on the remote display. Do it again to deactivate this function.
2. When the MUTE function runs, the remote controller will display the auto fan speed, and the indoor unit will operate at the lowest fan speed to minimize fan noise.
3. If the FAN/ TURBO button is pressed, the MUTE function will be cancelled. The MUTE function can not be activated under dry mode.

SLEEP function

SLEEP

Pre-set automatic operating program.

Press **SLEEP** button to activate the SLEEP function, and  appears on the display. Press again to cancel this function.

This function is an energy savings feature that will internally increase (in COOL mode) or decrease (in HEAT mode) the setpoint for the duration of your sleep.

After 10 hours running in sleep mode, the air conditioner will change to the previously set mode.

I FEEL function (Optional)

I FEEL

Press **I FEEL** button to activate the function, the  will appear on the remote display. Do it again to deactivate this function.

This function enables the remote control to measure the temperature at its current location, and send this signal to the air conditioner to optimize the temperature around you and ensure the comfort. The remote must be continuously pointing at the indoor unit.

It will automatically deactivate 8 hours later.

ECO function

ECO

In this mode the appliance automatically sets the operation to save energy.

Press the **ECO** button,  and the appliance will run in ECO mode.

Press again to cancel it.

Note: The ECO function is available in both COOLING and HEATING modes.

DISPLAY function (Indoor display)

DISPLAY

Switch ON/OFF the LED display on panel.

Press **DISPLAY** button to switch off the LED display on the panel. Press again to switch on the LED display.

REMOTE CONTROL

SELF-CLEAN function

To activate this function, turn off the indoor unit first, then press  and  button at the same time toward the indoor unit, until you hear a beep, and [AC] will appear on the remote controller display and the indoor LED display.

- 1. This function helps carry away the accumulated dirt from the indoor evaporator.
- 2. This function will run about 30 minutes, and it will return to the pre-set mode. You can press  button to cancel this function during the process.

You will hear 2 beeps when it's finished or cancelled.

 It's normal if there is some noise during this function process, as plastic materials expand with heat and contract with cold.

 We suggest operating this function at the following ambient conditions to avoid certain safety protection features.

Indoor unit	Temp < 86°F (30°C)
Outdoor unit	41°F (5°C) < Temp < 86°F (30°C)

 It's suggested to utilize this function every 3 months.

8°C(46°F) heating function (Optional)

- 1. Long press  button over 3 seconds to activate this function, and  () will appear on the remote display.
Do it again to deactivate this function.
- 2. This function will auto start the heating mode when the room temperature is lower than 8°C (46°F), and it will return to standby if the temperature reaches 9°C (48°F).
- 3. If the room temperature is higher than 18°C (64°F), the appliance will cancel this function automatically.

I SET function

Memorize your favorite settings and run them by pressing One button

Remember the favorite setting:

- 1. In each mode (COOLING/ HEATING/ FAN/ DRY), long press " I SET " button over 3 seconds to remember it;
- 2. When "AU" flashing appears on the remote controller display, that means the remote controller is storing your favorite setting;
* Press any button to quit, and you can reset it by repeating steps 1 and 2.

Run your favorite settings:

- 1. In each mode (COOLING/ HEATING/ FAN/ DRY), press the " I SET " button to activate;
- 2. The appliance will run at your favorite setting and you will see [AU] flashing on the remote controller;
- 3. Press " I SET " again or other buttons to cancel this function.

OPERATION INSTRUCTIONS

- ❶ Attempting to use the air conditioner beyond the specified temperature ranges may cause the protection device to activate and the air conditioner may fail to operate. Therefore, try to use the air conditioner within the following temperature conditions.

Inverter air conditioner:

MODE Temperature	Heating	Cooling	Dry
Room temperature	Lower than 30°C (>86°F)	Higher than 17°C (>62°F)	
Outdoor temperature	-20°C~24°C (-4°F~86°F) MSC12 -25°C~30°C (-13°F~86°F) MSCT09, MSCT24	-15°C to 50°C (5°F to 122°F) MSC12 -15°C to 55°C (5°F to 131°F) MSCT09, MSCT24	

If shutdown occurs with the power supply connected, restart the air conditioner, or switch it to another mode during operation, and the air conditioner protection device will reset. The compressor will resume operation after 3 minutes.

❶ Characteristics of heating operation

Preheating:

When the heating function is enabled, the indoor unit will take 2~5 minutes for preheating, after that the air conditioner will start heating and blowing warm air.

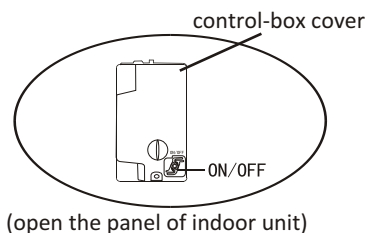
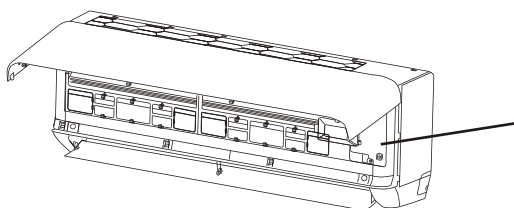
Defrosting:

During heating, when the outdoor unit is frosted, the air conditioner will enable the automatic defrosting function to improve the heating effect. During defrosting, the indoor and outdoor fans stop running. The air conditioner will resume heating automatically after the defrosting finishes.

❶ Emergency button:

Open the panel and find the emergency button on the electronic control box when the remote controller fails. (Always press the emergency button with insulation material.)

Current status	Operation	Respond	Enter mode
Standby	Press the emergency button once	It beeps briefly once.	Cooling mode
Standby	Press the emergency button twice in 3 seconds	It beeps briefly twice.	Heating mode
Running	Press the emergency button once	It keeps beeping for a while	Off mode



INSTALLATION PRECAUTIONS

Pipe Length and Additional Refrigerant

Inverter Models Capacity (Btu/h)	9K-12K		18K-24K		30K-36K	
Length of pipe with standard charge	5m/16ft	5m/16ft	5m/16ft	5m/16ft	5m/16ft	5m/16ft
Maximum distance between indoor and outdoor unit	15m/49ft	15m/49ft	20m/65ft	20m/65ft	30m/98ft	30m/98ft
Additional refrigerant charge	20g/m	15g/m	30g/m	25g/m	30g/m	25g/m
Max. diff. in level between indoor and outdoor unit	10m/32ft	10m/32ft	15m/48ft	15m/48ft	20m/65ft	20m/65ft
Type of refrigerant	R22/R410A	R32	R22/R410A	R32	R22/R410A	R32

Torque Parameters

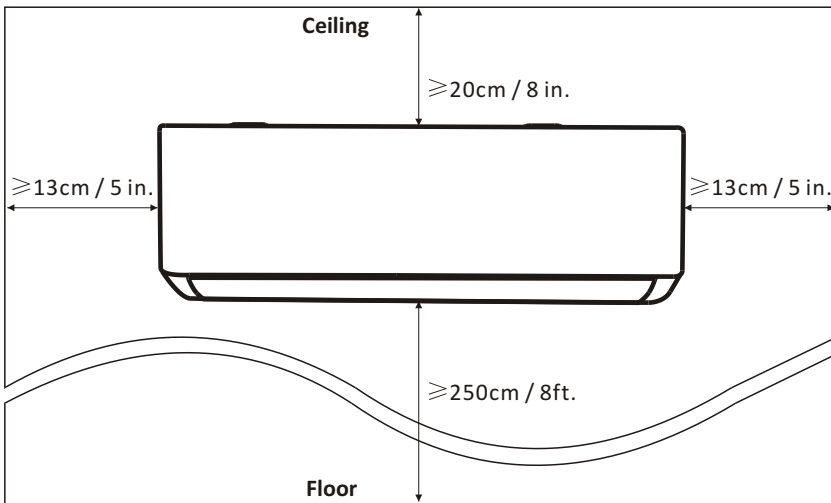
PIPE Size	Newton meter[N x m]	Pound-force foot (lbf-ft)	Kilogram-force meter (kgf-m)
1/4 " (ϕ 6.35)	15 - 20	11.1 - 14.8	1.5 - 2.0
3/8 " (ϕ 9.52)	31 - 35	22.9 - 25.8	3.2 - 3.6
1/2 " (ϕ 12)	45 - 50	33.2 - 36.9	4.6 - 5.1
5/8 " (ϕ 15.88)	60 - 65	44.3 - 48.0	6.1 - 6.6

INDOOR UNIT INSTALLATION

Step1: Select the installation location and follow this checklist:

- 1.1 Ensure the installation complies with the installation minimum dimensions (defined below) and meets the minimum and maximum connecting piping length and maximum difference in elevation as defined in the System Requirements section.
- 1.2 Air inlet and outlet will be clear of obstructions, ensuring proper airflow throughout the room.
- 1.3 Condensate can be easily and safely drained.
- 1.4 All connections can be easily made to outdoor unit.
- 1.5 Indoor unit is out of reach of children.
- 1.6 A mounting wall strong enough to withstand four times the full weight and vibration of the unit.
- 1.7 Filter can be easily accessed for cleaning.
- 1.8 Leave enough free space to allow access for routine maintenance.
- 1.9 Install at least 10 ft. (3 m) away from the antenna of TV set or radio. Operation of the air conditioner may interfere with radio or TV reception in areas where reception is weak. An amplifier may be required for the affected device.
- 1.10 Do not install in a laundry room or by a swimming pool due to the corrosive environment.
- 1.11 Caution: Mount with the lowest moving parts at least 8 ft. (2.4 m) above floor or grade level.

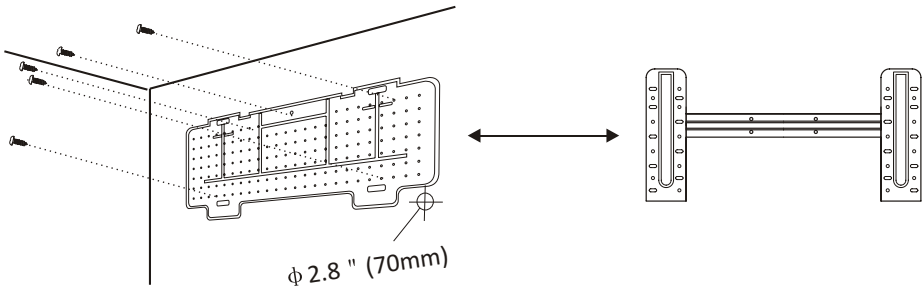
Minimum Indoor Clearances



INDOOR UNIT INSTALLATION

Step2: Install Mounting Plate

- 2.1 Remove the mounting plate from the back of the indoor unit.
- 2.2 Ensure to meet the minimum installation dimension requirements per step 1, according to the size of the mounting plate. Determine the position and hold the mounting plate close to the wall.
- 2.3 Adjust the mounting plate horizontally with a level, then mark out the screw hole positions on the wall.
- 2.4 Put down the mounting plate and drill holes in the marked positions with drill.
- 2.5 Insert expansion rubber plugs into the holes, then hang the mounting plate and fix it with screws.



Note:

- (I) Make sure the mounting plate is firm enough and flat against the wall after installation.
- (II) This figure shown may be different from the actual mounting plate, please adjust accordingly.

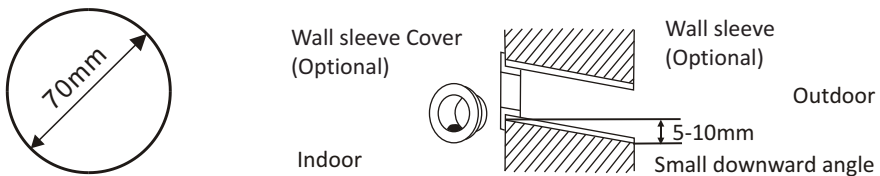
Step3: Drill Wall Hole

A hole in the wall should be drilled for refrigerant piping, the drainage pipe, and connecting cables.

- 3.1 Determine the location of wall hole based on the position of the mounting plate.
- 3.2 The hole should be have a minimum diameter of 70mm(2.8") and be angled downwards to the outside.
- 3.3 The outside opening should be lower by about 5mm to 10mm(0.2 to 0.4").
- 3.4 Place the wall sleeve and wall sleeve cover(both are optional parts) to protect the connection parts.

Caution:

When drilling the wall hole, maker sure to avoid wires, plumbing and other sensitive components.



INDOOR UNIT INSTALLATION

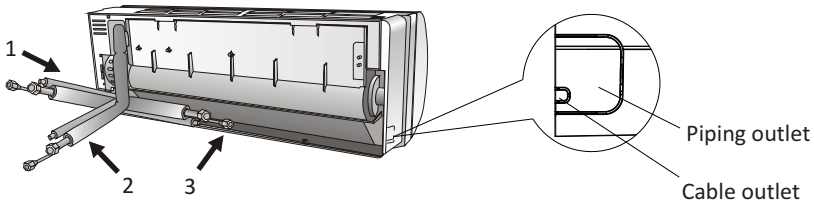
Step4: Connecting the Refrigerant Pipe

4.1 Select the appropriate piping mode according to the wall hole position.

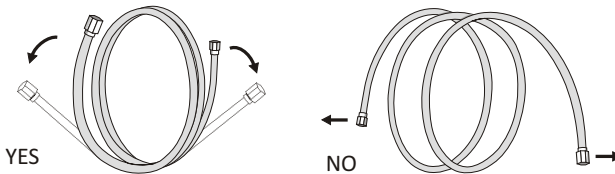
There are three optional piping modes for indoor units as shown in the figure below:

In Piping Mode 1 or Piping Mode 3, a notch should be made by using scissors to cut the plastic sheet of piping outlet and cable outlet on the corresponding side of the indoor unit.

Note: When cutting off the plastic sheet at the outlet, the cut should be trimmed to smooth.



4.2 Bending the connecting pipes with the port facing up as shown in the figure.



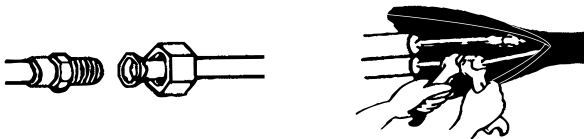
4.3 Take off the plastic cover in the pipe ports and take off the protective cover on the end of piping connectors.

4.4 Check whether there is any debris on the port of the connecting pipe and make sure the port is clean.

4.5 After aligning the center, rotate the nut of the connecting pipe to tighten the nut as tightly as possible by hand.

4.6 Use a torque wrench to tighten it according to the torque values in the torque requirements table; (Refer to the torque requirements table in the section **INSTALLATION PRECAUTIONS**)

4.7 Wrap the joint with the insulation pipe.

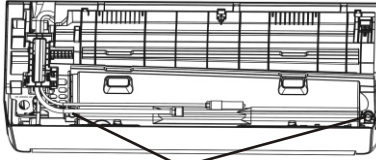


INDOOR UNIT INSTALLATION

Step5: Connect the Drainage Hose

5.1 Adjust the drainage hose(if applicable)

Both sides of the indoor unit are provided with drainage ports, you can choose one of them to attach the drainage hose. Plug the unused drain port with the rubber plug that comes in one of the ports.

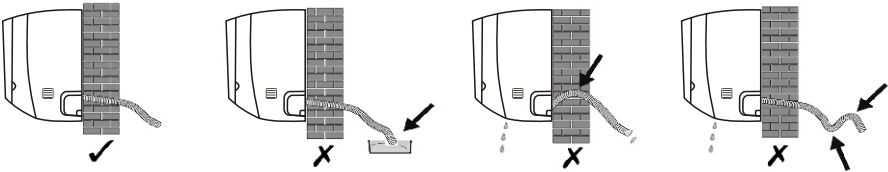


Drainage ports

5.2 Connect the drainage hose to the drainage port, ensure the joint is firm and the sealing is good.

5.3 Wrap the joint firmly with teflon tape to ensure no leaks.

Note: Make sure there are no twists or dents, and the pipes should be placed pointing downward to avoid blockage, and to ensure proper drainage.



Step6: Connect the Wiring

6.1 Choose the right cables size determined by the maximum operating current on the nameplate.
(Check the cable size, refer to section **INSTALLATION PRECAUTIONS**)

6.2 Open the front panel of indoor unit.

6.3 Using a screwdriver, open the electric control box cover, to reveal the terminal block.

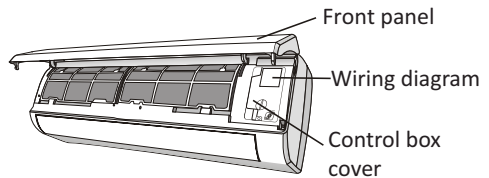
6.4 Unscrew the cable clamp.

6.5 Insert one end of the cable into the control box from the back of the right end of the indoor unit.

6.6 Connect the wires to the corresponding terminal according to the wiring diagram on the electric control box cover. And make sure that they are well connected.

6.7 Screw down the cable clamp to fasten the cables.

6.8 Reinstall the electric control box cover and close the front panel.

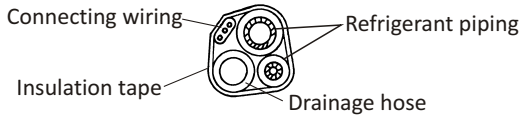


INDOOR UNIT INSTALLATION

Step7: Wrap Piping and Cable

After the refrigerant pipes, connecting wires and drainage hose are all installed, in order to save space, and to protect and insulate them, they must be bundled with insulating tape before passing them through the wall hole.

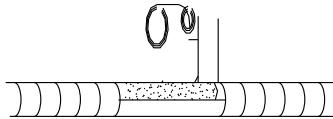
7.1 Arrange the pipes ,cables and drainage hose well per the following picture.



Note: (I) Make sure the drainage hose is at the bottom.

(II) Avoid crossing and bending of parts.

7.2 Using the insulating tape wrap the refrigerant pipes, connecting wires and drainage hose together tightly.



Step8: Mount Indoor Unit

8.1 Slowly pass the refrigerant pipes, connecting wires and drainage hose wrapped bundle through the wall hole.

8.2 Hook the top of the indoor unit on the mounting plate.

8.3 Apply slight pressure to the left and right sides of the indoor unit, making sure the indoor unit is hooked firmly.

8.4 Push down on the bottom of the indoor unit to let it snap onto the hooks of the mounting plate, and make sure it is hooked firmly.

Sometimes, if the refrigerant pipes and wires were installed first, proceed as below:

(I) Hook the top of the indoor unit on the mounting plate without piping and wiring.

(II) Lift the indoor unit opposite the wall, some models have a built-in bracket to prop it open; otherwise prop it open with an object.

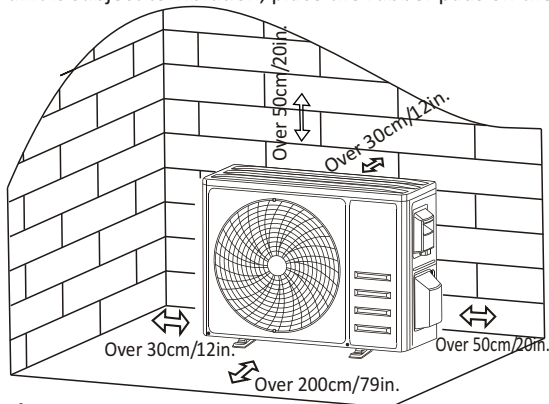
(III) Connect the refrigerant piping, wiring, and drainage hose, and wrap them as in **Steps 4 to 7**.

OUTDOOR UNIT INSTALLATION

Step1: Select the Installation Location

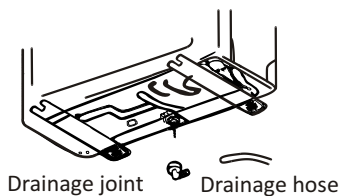
Select a site that allows for the following:

- 1.1 Do not install the outdoor unit near sources of heat, steam or flammable gas.
- 1.2 Do not install the unit in too windy or dusty places.
- 1.3 Do not install the unit where people often pass. Select a place where the air discharge and operating sound will not disturb the neighbors.
- 1.4 Avoid installing the unit where it will be exposed to direct sunlight (otherwise use a protection, if necessary, that should not interfere with the air flow).
- 1.5 Reserve the spaces as shown in the picture for the air to circulate freely.
- 1.6 Install the outdoor unit in a safe and solid place.
- 1.7 If the outdoor unit is subject to vibration, place the rubber pads on the feet of the unit.



Step2: Install Drainage Hose

- 2.1 This step is only for heat pump models or RCACs.
- 2.2 Insert the drainage plug in the hole at the bottom of the outdoor unit.
- 2.3 Connect the drainage hose to the plug and ensure it is tightly connected.



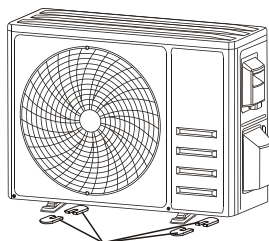
Step3: Fix Outdoor Unit

- 3.1 Mark the installation position for expansion bolts according to the outdoor unit installation dimensions.
- 3.2 Drill holes, clean the concrete dust and place the bolts .
- 3.3 If applicable, install 4 rubber pads on the holes before placing the outdoor unit (Optional).
This will reduce vibrations and noise.
- 3.4 Place the outdoor unit base on the bolts and pre-drilled holes.
- 3.5 Use a wrench to fix the outdoor unit firmly with the bolts.

Note:

The outdoor unit can be fixed on a wall-mounted bracket. Follow the instruction of the wall-mounted bracket to fix it on the wall, and then fasten the outdoor unit on it while keeping it horizontal.

The wall-mounted bracket must be able to support at least 4 times the weight of the outdoor unit.



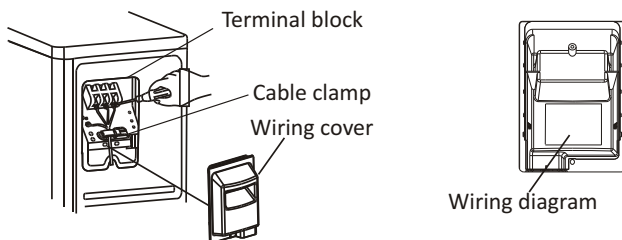
Install 4 rubber pads (Optional)

OUTDOOR UNIT INSTALLATION

Step4: Install the Wiring

- 4.1 Use a phillips screwdriver to unscrew the wiring cover, grasp and press it down gently to take it off.
- 4.2 Unscrew the cable clamp and remove it.
- 4.3 Following to the wiring diagram pasted inside the wiring cover, connect the connecting wires to the corresponding terminals, and ensure all connections are firm and secure.
- 4.4 Reinstall the cable clamp and wiring cover.

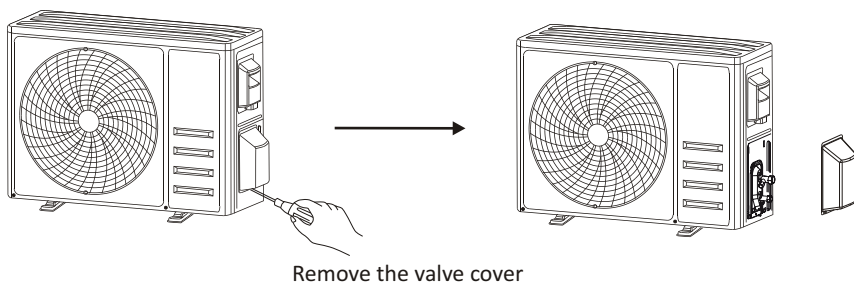
Note: When connecting the wires to the indoor and outdoor units, the power should be cut off.



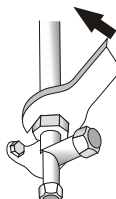
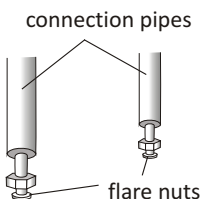
Step5: Connecting the Refrigerant Pipe

- 5.1 Unscrew the valve cover, grasp and press it down gently to remove it.
- 5.2 Remove the protective caps from the end of the valves.
- 5.3 Take off the plastic cover in the pipe ports and check whether there is any debris on the port of the connecting pipe and ensure the port is clean.
- 5.4 After aligning the centers, rotate the flare nut of the connecting pipe to tighten the nut as tightly as possible by hand.
- 5.5 Use a spanner to hold the body of the valve and use a torque wrench to tighten the flare nut according to the torque values in the torque requirements table.

(Refer to the torque requirements table in the section: **INSTALLATION PRECAUTIONS**)



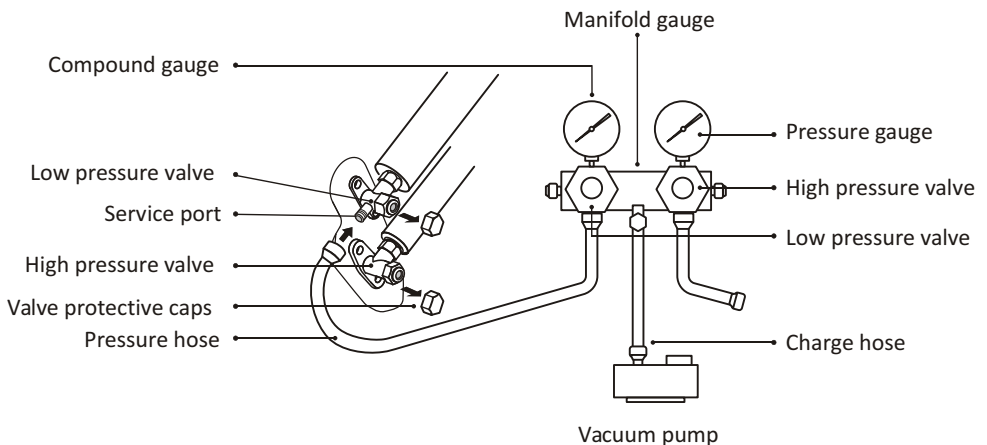
Remove the valve cover



OUTDOOR UNIT INSTALLATION

Step6: Vacuum Pumping

- 6.1 Use a spanner to remove the protective caps from the service port, low pressure valve and high pressure valve of the outdoor unit.
- 6.2 Connect the pressure hose of manifold gauge to the service port on the outdoor unit low pressure valve.
- 6.3 Connect the charge hose from the manifold gauge to the vacuum pump.
- 6.4 Open the low pressure valve of the manifold gauge and close the high pressure valve.
- 6.5 Turn on the vacuum pump to vacuum the system.
- 6.6 The vacuum time should not be less than 15 minutes, and make sure the compound gauge indicates -0.1 MPa (-76 cmHg) -14.5 psi.
- 6.7 Close the low pressure valve of the manifold gauge and turn off the vacuum.
- 6.8 Hold the pressure for 5 minutes, make sure that the rebound of the compound gauge pointer does not exceed 0.005 Mpa 0.73 psi.
- 6.9 Open the low pressure valve counterclockwise for 1/4 turn with a hexagonal wrench to let a little refrigerant fill the system. Close the low pressure valve after 5 seconds and quickly remove the pressure hose.
- 6.10 Check all indoor and outdoor joints for leakage with soapy water or a leak detector.
- 6.11 Fully open the low pressure valve and high pressure valve of the outdoor unit with a hexagonal wrench.
- 6.12 Reinstall the protective caps of the service port, low pressure valve and high pressure valve of the outdoor unit.
- 6.13 Reinstall the valve cover.



TEST OPERATION

Inspections Before Test Run

Do the following checks before test run.

Description	Inspection method
Electrical safety inspection	• Check whether the power supply voltage complies with the specification. • Check whether there is any incorrect or missing connection between the power lines, signal line and earth wires. • Check whether the earth resistance and insulation resistance comply with requirements.
Installation safety inspection	• Confirm the direction and smoothness of the drainage pipe. • Confirm that the joint of refrigerant pipe connections are tight. • Confirm the safety of the outdoor unit, mounting plate and indoor unit installation. • Confirm that the valves are fully open. • Confirm that there are no foreign objects or tools left inside the unit.
Refrigerant leakage detection	• Check for refrigerant leaks at the piping joints, the connections of the two valves of the outdoor unit, etc., where leakage may occur. • Foam detection method: Apply soapy water or foam evenly on the parts where leakage may occur, and observe whether bubbles appear or not. If there are no bubbles, no leakage was detected. • Leak detector method: Use a professional leak detector and read the operating instructions to detect at the places where leakage may occur. • The duration of leak detection for each position should last for 3 minutes or more; If the test result shows that there is leakage, the nut should be tightened and tested again until there is no leakage; After the leak detection is completed, wrap the exposed pipe connector of indoor unit with thermal insulation material and wrap with insulation tape.

TEST OPERATION

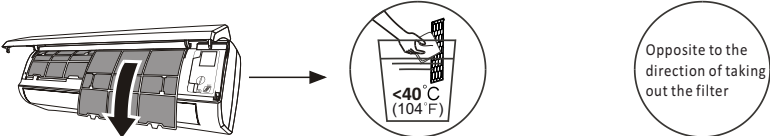
Test Run Instruction

1. Turn on the power supply.
2. Press the ON/OFF button on the remote controller to turn on the air conditioner.
3. Press the Mode button to switch the mode to COOLING and HEATING.
In each mode set as below:
COOLING-Set the lowest temperature
HEATING-Set the highest temperature
4. Run about 8 minutes in each mode and check that all functions run properly and respond to the remote controller. Below are the recommended checks:
 - 4.1 If the outlet air temperature responds to the cooling and heating modes
 - 4.2 If the water drains properly from the drainage hose
 - 4.3 If the Louver and deflectors rotate properly
5. Observe the test run state of the air conditioner for at least 30 minutes.
6. After the successful test run, return to the normal setting and press the ON/OFF button on the remote controller to turn off the unit.
7. Inform the user to read this manual carefully before use, and demonstrate to the user how to use the air conditioner, the necessary information for service and maintenance, and reminder for the storage of accessories.

Note:

If the ambient temperature exceeds the range mentioned in the section OPERATION INSTRUCTIONS, and you cannot run COOLING or HEATING mode, lift the front panel and refer to the emergency button operation to run the COOLING and HEATING modes.

MAINTENANCE

Warning	• Before cleaning, you must shut down the machine and cut off the power supply for more than 5 minutes. • Under no circumstances should the air conditioner be flushed with water. • Volatile liquids (e.g. thinner or gasoline) will damage the air conditioner, so only use a soft dry cloth or wet cloth dipped with neutral detergent to clean the air conditioner. • Pay attention to cleaning the filter screen regularly to avoid dust covering which will affect the operation. When the operating environment is dusty, the cleaning frequency should be increased appropriately. • After removing the filter screen, do not touch the fins of the indoor unit to avoid cuts.
Clean the unit	 Wring the cloth dry and gently wipe the surface of the unit Tip: Wipe frequently to keep the air conditioner clean.
Clean the filter	 Take out the filter from the unit Clean the filter with soapy water and air dry it Replace the filter Tip: When you find accumulated dust in the filter, please clean the filter promptly to ensure the clean, healthy and efficient operation inside the air conditioner.
Service and maintenance	• When the air conditioner is not in use for a long time, do the following: Take out the batteries of the remote controller and disconnect the power supply of the air conditioner. • When starting to use after a long-term shutdown: 1. Clean the unit and filter screen; 2. Check whether there are obstacles at the air inlet and outlet of the indoor and outdoor units; 3. Check whether the drain pipe is unobstructed; Install the batteries of the remote controller and check whether the power is on.

TROUBLESHOOTING

MALFUNCTION	POSSIBLE CAUSES
The appliance does not operate	Power failure.
	Damaged indoor/outdoor unit fan motor.
	Faulty compressor thermomagnetic circuit breaker.
	Faulty protective device or fuses.
	Loose connections.
	Internal safety protection.
	Voltage higher or lower than the voltage range.
	Active TIMER-ON function.
	Damaged electronic control board.
Strange odor	Dirty air filter.
Noise of running water	Back flow of liquid in the refrigerant circulation.
A fine mist comes from the air outlet	This occurs when the air in the room becomes very cold, for example in the “COOLING” or “DEHUMIDIFYING/DRY” modes.
A strange noise can be heard	This noise is made by the expansion or contraction of the front panel due to variations in temperature and does not indicate a problem.
Insufficient airflow, hot or cold	Unsuitable temperature setting.
	Obstructed air conditioner intakes and outlets.
	Dirty air filter.
	Fan speed set at minimum.
	Other sources of heat in the room.
	Loss of refrigerant.
The appliance does not respond to commands	Remote control is not close enough to indoor unit.
	The batteries of the remote control need to be replaced.
	Obstacles between the remote control and the signal receiver in the indoor unit.
The display is off	Active DISPLAY function.
	Power failure.
Switch off the air conditioner immediately and cut off the power supply in the event of:	Strange noises during operation.
	Faulty electronic control board.
	Faulty fuses or switches.
	Spraying water or objects inside the appliance.
	Overheated cables.
	Very strong smells coming from the appliance.

TROUBLESHOOTING

ERROR and information CODES ON THE DISPLAY

In case of error, the display on the indoor unit shows the following error codes:

Display	Description of the trouble
E1	Indoor room temperature sensor fault
E2	Indoor pipe temperature sensor fault
E3	Outdoor pipe temperature sensor fault
E4	Refrigerant system leakage or fault
E6	Malfunction of indoor fan motor
E7	Outdoor ambient temperature sensor fault
E0	Indoor and outdoor communication fault
E8	Outdoor discharge temperature sensor fault
E9	Outdoor IPM module fault
EA	Outdoor current detect fault
EE	Outdoor PCB EEPROM fault
EF	Outdoor fan motor fault
EH	Outdoor suction temperature sensor fault
CL	Clean Filters (fan has been running over 500 hours)
CB	Defrost mode
RC	Self Cleaning Mode

DISPOSAL GUIDELINE

This appliance contains refrigerant and other potentially hazardous materials. When disposing of this appliance, the law requires special collection and treatment. **DO NOT** dispose of this product as household waste or unsorted municipal waste.

When disposing of this appliance, you have the following options:

- Dispose of the appliance at a designated municipal waste collection facility.
- Disposing of this appliance in the forest or other natural surroundings endangers your health and is bad for the environment. Hazardous substances may leak into the ground water and enter the food chain.

