

OWNER'S MANUAL

AIR CONDITIONER

Please read this manual carefully before operating your set and retain it for future reference.

CEILING CONCEALED DUCT



P/NO: MFL68120740

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TIPS FOR SAVING ENERGY

Here are some tips that will help you minimize the power consumption when you use the air conditioner. You can use your air conditioner more efficiently by referring to the instructions below:

- Do not cool excessively indoors. This may be harmful for your health and may consume more electricity.
- Block sunlight with blinds or curtains while you are operating the air conditioner.
- Keep doors or windows closed tightly while you are operating the air conditioner.
- Adjust the direction of the air flow vertically or horizontally to circulate indoor air.
- Speed up the fan to cool or warm indoor air quickly, in a short period of time.
- Open windows regularly for ventilation as the indoor air quality may deteriorate if the air conditioner is used for many hours.
- Clean the air filter once every 2 weeks. Dust and impurities collected in the air filter may block the air flow or weaken the cooling / dehumidifying functions.

For your records

Staple your receipt to this page in case you need it to prove the date of purchase or for warranty purposes. Write the model number and the serial number here:

Model number :

Serial number :

You can find them on a label on the side of each unit.

Dealer's name :

Date of purchase :

IMPORTANT SAFETY INSTRUCTIONS

READ ALL INSTRUCTIONS BEFORE USING THE APPLIANCE.

Always comply with the following precautions to avoid dangerous situations and ensure peak performance of your product

WARNING

It can result in serious injury or death when the directions are ignored

CAUTION

It can result in minor injury or product damage when the directions are ignored

WARNING

- Use two or more people to lift and transport the product. Avoid personal injury.
- The information contained in the manual is intended for use by a qualified service technician familiar with safety procedures and equipped with the proper tools and test instruments.
- Failure to carefully read and follow all instructions in this manual can result in equipment malfunction, property damage, personal injury and/or death.

Installation

- Do not use a defective or underrated circuit breaker. Use this appliance on a dedicated circuit.
 - There is risk of fire or electric shock.
- For electrical work, contact the dealer, seller, a qualified electrician, or an Authorized Service Center.
 - Do not disassemble or repair the product. There is risk of fire or electric shock.
- Always ground the product.
 - There is risk of fire or electric shock.
- Install the panel and the cover of control box securely.
 - There is risk of fire or electric shock.
- Always install a dedicated circuit and breaker.
 - Improper wiring or installation may cause fire or electric shock
- Use the correctly rated breaker or fuse.
 - There is risk of fire or electric shock.
- Use the specified wires to connect the unit. -
There is risk of fire or electric shock.
- Do not install, remove, or re-install the unit by yourself (customer).
 - There is risk of fire, electric shock, explosion, or injury.
- Be cautious when unpacking and installing the product.
 - Sharp edges could cause injury. Be especially careful of the case edges and the fins on the condenser and evaporator.
- For installation, always contact the dealer or an Authorized Service Center.
 - There is risk of fire, electric shock, explosion, or injury.
- Do not install the product on a defective installation stand.
 - It may cause injury, accident, or damage to the product.
- Be sure the installation area does not deteriorate with age.
 - If the base collapses, the air conditioner could fall with it, causing property damage, product failure, and personal injury.

- Do not let the air conditioner run for a long time when the humidity is very high and a door or a window is left open. Moisture may condense and wet or damage furniture.

Operation

- Take care to ensure that power cable could not be pulled out or damaged during operation.
 - There is risk of fire or electric shock.
- Do not place anything on the power cable.
 - There is risk of fire or electric shock.
- Do not plug or unplug the power supply plug during operation.
 - There is risk of fire or electric shock.
- Do not touch(operate) the product with wet hands.
 - There is risk of fire or electrical shock.
- Do not place a heater or other appliances near the power cable.
 - There is risk of fire and electric shock.
- Do not allow water to run into electric parts.
 - It may cause failure of the product or electric shock.
- Do not store or use flammable gas or combustibles near the product.
 - There is risk of fire or failure of product.
- Do not use the product in a tightly closed space for a long time.
 - Oxygen deficiency could occur.
- When flammable gas leaks, turn off the gas and open a window for ventilation before turn the product on.
 - Do not use the telephone or turn switches on or off. There is risk of explosion or fire
- If strange sounds, or small or smoke comes from product. Turn the breaker off or disconnect the power supply cable.
 - There is risk of electric shock or fire.
- Stop operation and close the window in storm or hurricane. If possible, remove the product from the window before the hurricane arrives.
 - There is risk of property damage, failure of product, or electric shock.
- Do not open the panel of the product during operation. (Do not touch the electrostatic filter, if the unit is so equipped.)
 - There is risk of physical injury, electric shock, or product failure.
- When the product is soaked (flooded or submerged), contact an Authorized Service Center.
 - There is risk of fire or electric shock.
- Be cautious that water could not enter the product.
 - There is risk of fire, electric shock, or product damage.
- Ventilate the product from time to time when operating it together with a stove, etc. -
 - There is risk of fire or electric shock.
- Turn the main power off when cleaning or maintaining the product.
 - There is risk of electric shock.
- When the product is not be used for a long time, disconnect the power supply plug or turn off the breaker.
 - There is risk of product damage or failure, or unintended operation.
- Take care to ensure that nobody could step on or fall onto the unit.
 - This could result in personal injury and product damage.



CAUTION

Installation

- Always check for gas (refrigerant) pressure after installation or repair of product.
 - Low refrigerant levels may cause failure of product.
- Install the drain hose to ensure that water is drained away properly.
 - A bad connection may cause water leakage.
- Keep level even when installing the product.
 - To avoid vibration or water leakage.
- Do not install the product where the noise or hot air from the outdoor unit could damage the neighborhoods.
 - It may cause a problem for your neighbors.
- Use two or more people to lift and transport the product. Avoid personal injury.
- Do not install the product where it will be exposed to sea wind (salt spray) directly.
 - It may cause corrosion on the product. Corrosion, particularly on the condenser and evaporator fins, could cause product malfunction or inefficient operation.

Operation

- Do not expose the skin directly to cool air for long periods of time. (Don't sit in the draft.)
 - This could harm to your health.
- Do not use the product for special purposes, such as preserving foods, works of art, etc. It is a consumer air conditioner, not a precision refrigeration system.
 - There is risk of damage or loss of property.
- Do not block the inlet or outlet of air flow. -
It may cause product failure.
- Use a soft cloth to clean. Do not use harsh detergents, solvents, etc.
 - There is risk of fire, electric shock, or damage to the plastic parts of the product.
- Do not touch the metal parts of the product when removing the air filter. They are very sharp! -
There is risk of personal injury.
- Do not step on or put anything on the product. (outdoor units)
 - There is risk of personal injury and failure of product.
- Always insert the filter securely. Clean the filter every four weeks or more often if necessary.
 - A dirty filter reduces the efficiency of the air conditioner and could cause product malfunction or damage.
- Do not insert hands or other objects through the air inlet or outlet while the product is operated. -
There are sharp and moving parts that could cause personal injury.
- Do not drink the water drained from the product.
 - It is not sanitary and could cause serious health issues.
- Use a firm stool or ladder when cleaning or maintaining the product.
 - Be careful and avoid personal injury.
- Replace the all batteries in the remote control with new ones of the same type. Do not mix old and new batteries or different types of batteries. There is risk of fire or explosion.
- Do not recharge or disassemble the batteries. Do not dispose of batteries in a fire. They may burn or explode.
- If the liquid from the batteries gets onto your skin or clothes, wash it well with clean water. Do not use the remote if the batteries have leaked. The chemicals in batteries could cause burns or other health hazards.
- If you eat the liquid from the batteries, brush your teeth and see doctor. Do not use the remote if the batteries have leaked. The chemicals in batteries could cause burns or other health hazards.

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BEFORE USE

Preparing for operation

- Contact an installation specialist for installation.
- Use a dedicated circuit.

Usage

- Being exposed to direct airflow for an extended period of time could be hazardous to your health. Do not expose occupants, pets, or plants to direct airflow for extended periods of time.
- Due to the possibility of oxygen deficiency, ventilate the room when used together with stoves or other heating devices.
- Do not use this air conditioner for non-specified special purposes (e.g. preserving precision devices, food, pets, plants, and art objects). Such usage could damage the items.

Cleaning and maintenance

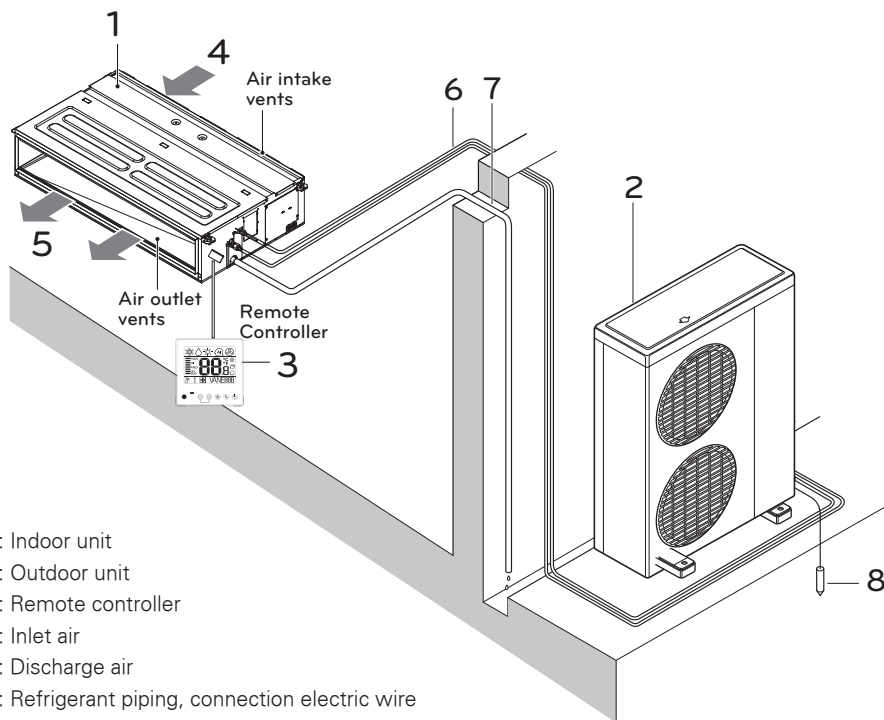
- Do not touch the metal parts of the unit when removing the filter. Injuries can occur when handling sharp metal edges.
- Do not use water to clean inside the air conditioner. Exposure to water can destroy the insulation, leading to possible electric shock.
- When cleaning the unit, first make sure that the power and breaker are turned off. The fan rotates at a very high speed during operation. There is a possibility of injury if the unit's power is accidentally triggered on while cleaning inner parts of the unit.

Service

For repair and maintenance, contact your authorized service dealer.

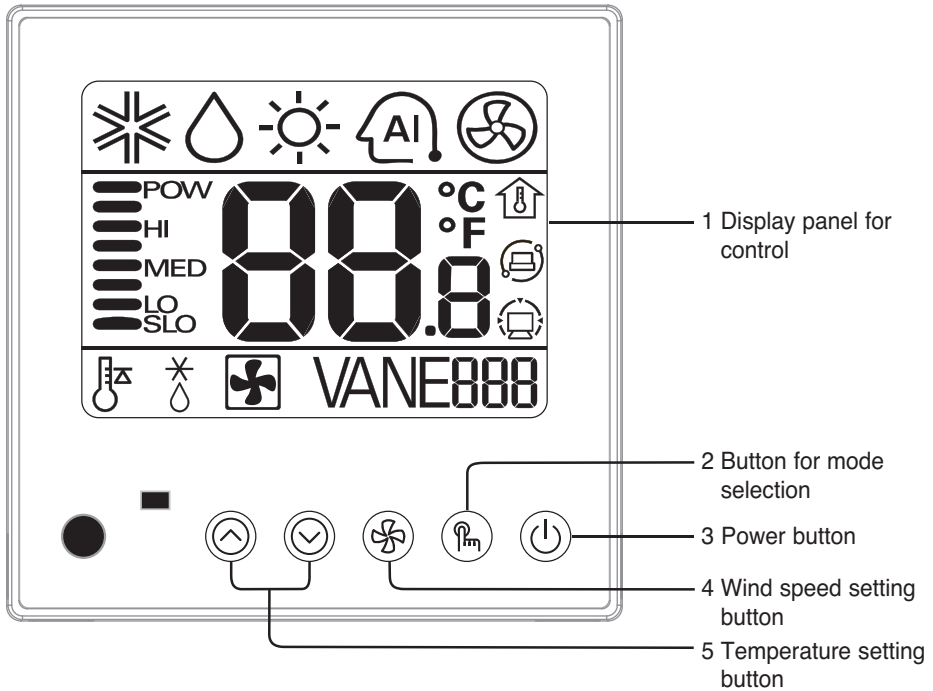
PRODUCT INTRODUCTION

Name and function of parts



- 1: Indoor unit
- 2: Outdoor unit
- 3: Remote controller
- 4: Inlet air
- 5: Discharge air
- 6: Refrigerant piping, connection electric wire
- 7: Drain pipe
- 8: Ground wire
wire to ground outdoor unit to prevent electrical shocks.

Wired Remote Controller (Accessory: PQRCUC2W)



When the wired controller is powered on, all function icons will be displayed on the display panel for three seconds.

* Some functions may not be operated and displayed depending on the product type.

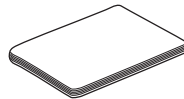
Accessory



Connection Cable
(1EA, 10m)



Screw
(2 EA)

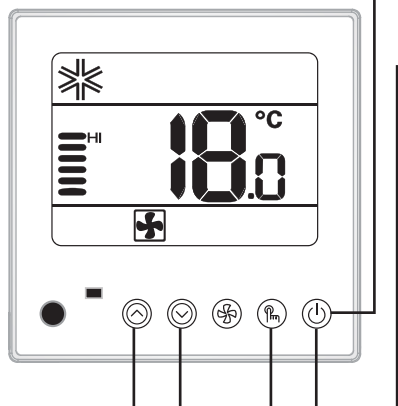


Owner's / Installation
manual

OPERATING INSTRUCTIONS

Cooling Mode - Standard Operation

It cools the room by comfortable and clean wind.



1 Press the button to start the cooling operation.

2 Press the temperature button and set the desired temperature below the room temperature.

- Press the button once to increase the desired temperature by 0.5 °C or 1 °C
- Pressing the button once will decrease the desired temperature by 0.5 °C or 1 °C

- Temperature setting range:

18 °C ~ 30 °C (64 °F ~ 86 °F)

- If the set temperature is higher than the room temperature, the cooling function will not be turned on and the air supply mode will run.

3 Pressing the mode button in operation will change the cooling, dehumidification, heating, automatic operation and air supply modes. If the product is a single-cooling model, the operation mode will be changed to cooling, dehumidification, automatic operation and air supply modes.

4 Press the key to stop cooling

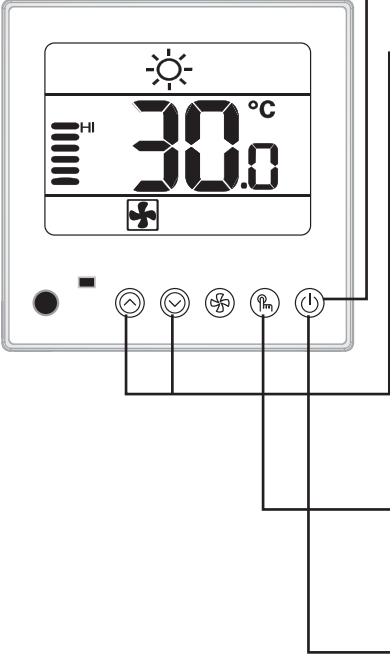
! NOTE

* **Common** - Setting Temp Range : 18°C~30°C (64°F~86°F)

* **UAE Only** - Setting Temp Range : 20°C~30°C (68°F~86°F)

Heating Mode(Heat pump model only) It

supplies warm air to the room.



- 1** Press the  key to run the machine, then press the  key to select the heating mode.
- 2** Set the desired temperature to be higher than the current room temperature.
 -  — Pressing the button once will increase the desired temperature by 0.5 °C or 1 °C
 -  — Pressing the button once will decrease the desired temperature by 0.5 °C or 1 °C
 - Temperature setting range: 16 °C ~ 30 °C (60 °F ~ 86 °F)
 - If the set temperature is lower than the current room temperature, the heating function will not be turned on.
- 3** If pressing the mode button at run time, the operation mode will be changed into cooling, dehumidification, heating, automatic operation or air supply modes.
- 4** Pressing the  key can stop the heating mode.

What is the three-minute delay function?

It provides time for the product to blow out hot air. The delay is to protect the compressor.

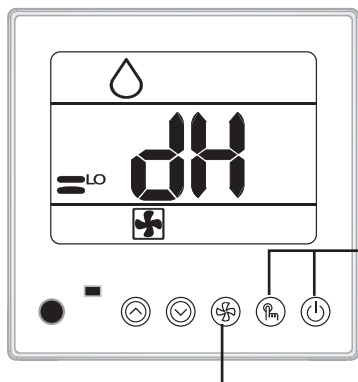
When the compressor starts running after three minutes, hot air will be blown in the room for heating.

! NOTE

- Heating mode only operates at the cooling and heating model.
- Heating doesn't operate at cooling exclusive model.

Dehumidification Mode

It removes humidity while air-cooling weakly.

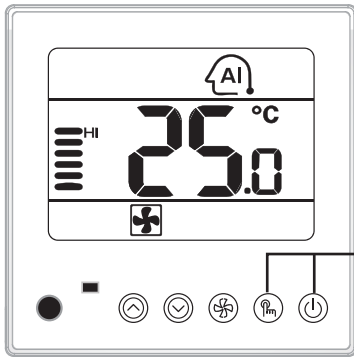


- 1 Press the key to run the machine, press the key to select the dehumidification mode.
- 2 When dehumidification mode is selected, “dH” will be displayed in the window as shown on the left figure.
- When this mode is running, the temperature setting cannot be adjusted.
- 3 Press button to select wind speed.
[Very weak → weak → middle → strong one Po]
- The initial minimum wind speed for dehumidifying is weak.

! NOTE

- In rainy season or high humidity climate, it is possible to operate simultaneously dehumidifier and cooling mode to remove humidity effectively.
- The menu item of wind powerfulness might not be partially selected according to the product.

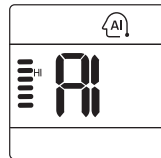
Auto Operation Mode



1 Press the key to run the machine, then press the key to select the automatic operation mode.

2 "Automatic mode switch" – the heat pump mode only In the automatic operation mode, when the set temperature is higher than the indoor temperature:
→ DHW heating operation
[The Heat Pump Mode Only]
In the automatic operation mode, when the set temperature is lower than the indoor temperature:
→ Cooling operation
- Temperature setting range:
18 °C ~ 30 °C (64 °F ~ 86 °F)

3 When the product with single-cooled models is in the "Automatic Operation Mode", the "Wireless Controller" will display "AI"



2 Cold
1 Cool
00 Comfortable
- 1 Warm
- 2 Hot

! NOTE

"Auto Change Over Mode" - heat pump model only when desired the set temperature is higher than the room temperature during the auto operation => heating operation (**for Heat pump models only**).

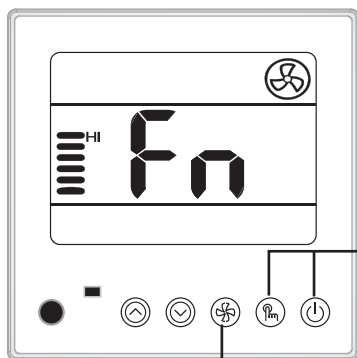
When desired the set temperature is lower than the room temperature during the auto operation
=> Cooling operation

* **Common** - Setting Temp Range : 18°C~30°C (64°F~86°F)

* **UAE Only** - Setting Temp Range : 20°C~30°C (68°F~86°F)

Fan Mode

It blows the air without cold air.



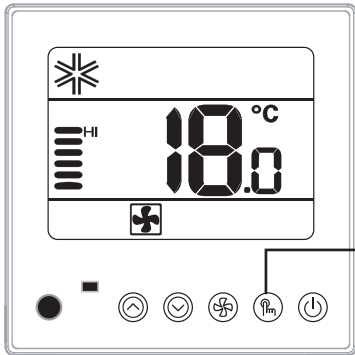
- 1 Press the key to run the machine, then press the key to select the air supply mode.
- 2 When the air supply mode is selected, "Fn" will be displayed in the window as shown on the left figure.
- The temperature cannot be adjusted under this mode.
- 3 Press button to select wind speed.
[Very weak → weak → middle → strong one Po]
- AHU compressors do not work when fans are running.

! NOTE

- Ventilation drive does not release cool wind but general fan
- Because it releases the wind that has no temperature difference from the room, it functions to circulate the inside air.
- The menu item of wind powerfulness might not be partially selected according to the product.

Selection of Air Flow speed

This function is used to set the speed of the fan.



1 Press the  key to select the desired air flow.

- Pressing the  key will cause the air flow speed changes in the following order.
[Very weak → weak → middle → strong → Po]
- The initial air flow speed is "strong"
- Incompatibility between the product and air flow speed control will hinder the function you selected.

Selection of the Air Flow speed in the cooling mode.



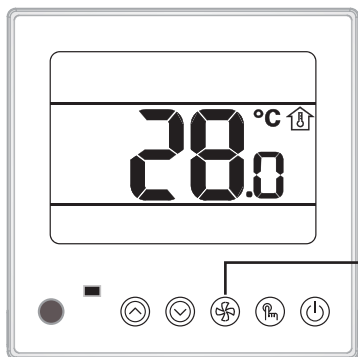
Selection of Air Flow speeds in the heating, dehumidification, air supply, automatic operation modes.



Air Flow speed options will vary in different products.

Room temperature detection

This function is used to check the room temperature.



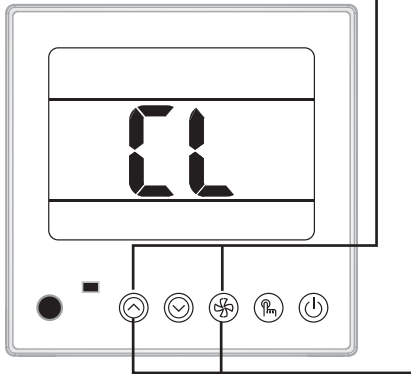
1 If pressing the  key for more than 3 seconds, the room temperature will be displayed for 5 seconds before returning to the previous display.

The room temperature may be different in temperature display depending on the setting of the room temperature sensing position of the wired controller.

- Due to the different installation positions of the wired controller, the actual sensing temperature and the room temperature displayed on the controller may differ slightly.

Function setting : Child Lock

It is the function to use preventing children or others from careless using.



1 Pressing the key and key at run time for more than 3 seconds can turn on the child lock function.

- CL will be shown in the temperature display part for 3 seconds before returning to the previous mode in the initial setting of the child lock.

If pressing other keys after CL setting, the function cannot be recognized, and CL is displayed for 3 seconds.

2 If want to use the lock function during standby, pressing the key and key for more than 3 seconds can enter the child lock function of the system.

3 Cancellation method: pressing the key and key for more than 3 seconds can cancel the child lock.

MAINTENANCE AND SERVICE

! CAUTION

Before performing any maintenance, turn off the main power to the system.

Indoor Unit

Grille, Case, and Remote Control

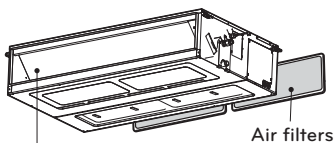
- Turn the system off before cleaning. To clean, wipe with a soft, dry cloth. Do not use bleach or abrasives.

! NOTE

Supply power must be disconnected before cleaning the indoor unit.

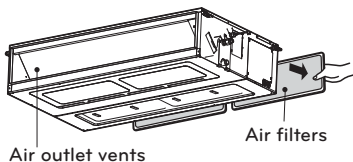
Never use any of the followings:

- Water hotter than 40°C
Could cause deformation and/or discoloration.
- Volatile substances
Could damage the surfaces of the air conditioner.



Air Filter

The air filters behind Indoor unit (the suction side) should be checked and cleaned once every 2 weeks or more often if necessary.



- 1 Clean the filter with a vacuum or warm, soapy water.
 - If very dirty, wash with a solution of detergent in lukewarm water.
 - If hot water (50°C or more) is used, filter may be deformed.
- 2 After washing with water, dry well in the shade.
- 3 Re-install the air filter.

When the air conditioner is not going to be used for a long time.

- 1 Operate the air conditioner on air circulation mode for 2 to 3 hours.
 - This will dry out the internal parts.
- 2 Turn off the circuit breaker.



CAUTION

Turn off the circuit breaker when the air conditioner is not going to be used for a long time.

Dirt may collect and may cause a fire.

When the air conditioner is to be used again.

- Check that the air inlet and outlet of the indoor/outdoor unit are not blocked.

Helpful information

- The air filters and your electric bill.
- If the air filters become clogged with dust, the cooling capacity will drop, and 6% of the electricity used to operate the air conditioner will be wasted.

Operation Tips

- Do not overcool the room.
This is not good for your health and wastes electricity.
- Keep blinds or curtains closed.
Do not let direct sunshine enter the room when the air conditioner is in operation.
- Clean the air filter regularly.
Blockages in the air filter reduce the airflow and lower cooling and dehumidifying effects.
- Make sure that the doors and windows are shut tight.
Avoid opening doors and windows as much as possible to keep the cool air in the room.
- Ventilate the room occasionally.
Since windows are kept closed, it is a good idea to open them and ventilate the room now and then.

Troubleshooting Tips!

Check the following points before requesting repairs or service....
If the malfunction persists, please contact your dealer.

Case	Explanation
The air conditioner does not operate.	• Have you made a mistake in timer operation? • Has the fuse blown or has the circuit breaker been tripped?
The room has a peculiar odor.	• Check that this is not a damp smell exuded by the walls, carpet, furniture, or cloth items in the room.
It seems that condensation is leaking from the air conditioner.	• Condensation occurs when the airflow from the air conditioner cools the warm air.
Air conditioner does not operate for about 3 minutes when restarted.	• This is the protection device of the air conditioner. • Wait about three minutes and operation will begin.
Does not cool or heat effectively.	• Is the air filter dirty? - See air filter cleaning instructions.
	• The room may have been very hot when the air conditioner was first turned on. Allow time for it to cool down.
	• Has the setting temperature been set incorrectly?
	• Are the unit's air inlet or outlet vents obstructed?
The air conditioner operation is noisy.	• For a noise that sounds like water flowing. - This is the sound of freon flowing inside the air conditioner unit. • For a noise that sounds like the compressed air releasing into atmosphere. - This is the sound of the dehumidifying water being processed inside the air conditioning unit.
Crack sound is heard.	• This sound is generated by the expansion/contraction of the inlet grille, etc. due to changes of temperature.
Remote controller display is faint, or no display at all.	• Has the circuit breaker been tripped?

Call the service immediately in the following situations

- 1 Anything abnormal such as burning smell, loud noise etc. happen. Stop the unit and turn the breaker off. Never try to repair by yourself or restart the system in such cases.
- 2 Main power cord is too hot or damaged.
- 3 Error code is generated by self diagnosis.
- 4 Water leaks from indoor unit.
- 5 Any switch, breaker (safety, earth) or fuse fails to work properly

User must carry routine checkup & cleaning to avoid unit's poor performance.
In case of special situation, the job must be carried out by service person only.