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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 : MFL68120702

www.lg.com

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.
- Do not turn on the breaker or power under condition that front panel, cabinet, top cover, control box cover are removed or opened.
  - Otherwise, it may cause fire, electric shock, explosion or death.

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 rik 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 of blothes, wash it well wih 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, bruch 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.

ENGLISH

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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

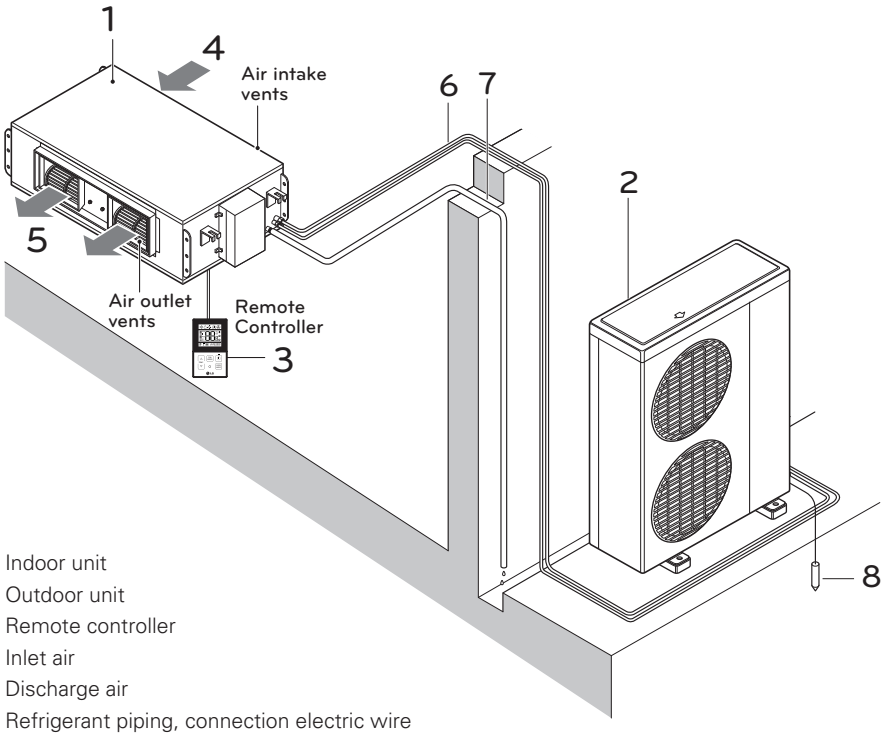
- Do not touch the metal parts of the unit when removing the filter. Injuries can occur when handling sharp metal edges.
- Do not use water to clean inside the air conditioner. Exposure to water can destroy the insulation, leading to possible electric shock.
- When cleaning the unit, first make sure 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.

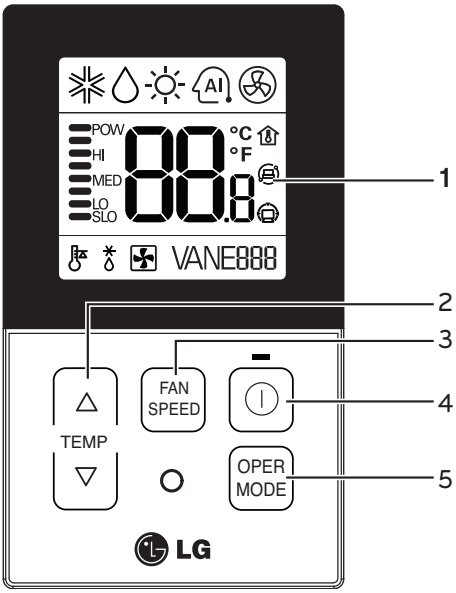
PRODUCT INTRODUCTION

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.

Simple Wired Remote Controller



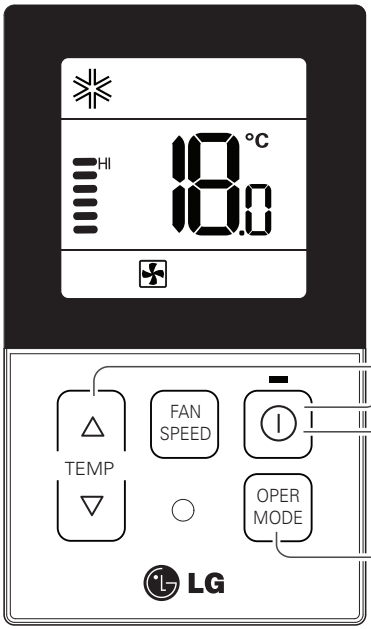
1 Operation Display Panel
2 Temperature Control Button
3 Fan Speed Button
4 On/Off Button
5 Operation Mode select Button

* Each function will be shown on the display panel for three seconds or so when the power is applied at first.

OWNER'S INSTRUCTION

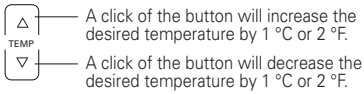
Standard Operation - Cooling Mode

It cools the room by comfortable and clean wind.



1 Cooling operation will begin if you press the ⏻ button.

2 Press the temperature button and set the desired room temperature lower than the current room temperature.



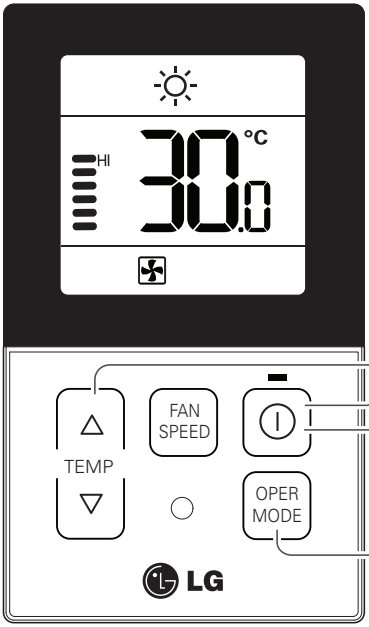
- Setting temp range : 18 °C~30 °C (64 °F~86 °F)
- If the desired temperature is set higher than the current room temperature, the cooling function will not begin and just the blowing operation will continue.

3 If you prees the mode button during the operation, the operation mode will be changed in the order of cooling, dry(dehumidification),heating,auto-operation and fan operation. If the product is a cooling-only model, the operation mode will be changed in the order of cooling, dry(dehumidification), auto-operation and fan operation.

4 If you press the ⏻ button, the cooling operation will stop.

Standard Operation - Heating Mode

It supplies warm wind to the indoor



1 If you want to set the heating operation, press the ⏻ button. And press the OPER MODE button.

2 Set the desired room temperature higher than the current room temperature.

TEMP △ — A click of the button will increase the desired temperature by 1 °C or 2 °F.

TEMP ▽ — A click of the button will decrease the desired temperature by 1 °C or 2 °F.

- Setting temp range : 16 °C~30 °C (60 °F~86 °F)
- If the desired temperature is set lower than the current room temperature, the heating function will not begin.

3 If you prees the mode button during the operation, the operation mode will be changed in the order of cooling, dry(dehumidification),heating,auto-operation and fan operation.

4 If you press the ⏻ button, the cooling operation will stop.

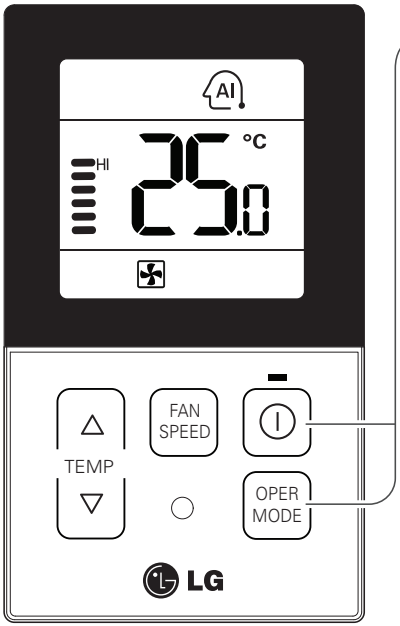
NOTE

What is the three-minute delay function?

It will take time for the product to blow warm air. The delay is to protect the compressor. The room will be heated with warm air after three minutes when the compressor begins operation.

* The cooling-only model will not do heating function.

Standard Operation - Auto Operation Mode



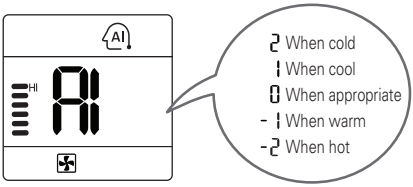
1 After operating the product by pressing the button, set up the auto operation by pressing the OPER MODE button.

2 "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

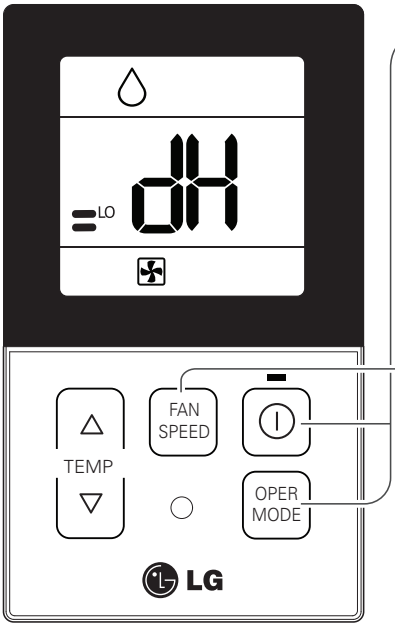
- Setting temp range : 18 °C~30 °C (64 °F~86 °F)

3 "Auto Operation Mode"
For the products with the exclusive purpose of cooling only, "AI" is indicated at the temperature display section.



Standard Operation - Dehumidification Mode

It removes humidity while air-cooling weakly.



1 After operating the product by pressing the ⏻ button, set up the dry (Dehumidification) by pressing the OPER MODE button.

2 When the dry operation is selected, "dh" will be shown on the display window as shown on the left side.
- The temperature setting can not be adjusted during operation this mode.

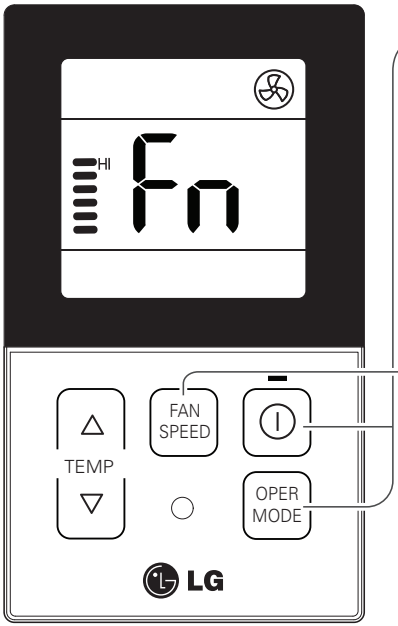
3 Press the FAN SPEED button to select airflow rate [SLO→LO→MED→HI→POW].
- The initial wind powerfulness of humidity removal drive is 'weak'.

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.

Standard Operation - Fan Mode

It blows the air as it is in the indoor, not the cold wind.



1 After operating the product by pressing the button, set up the fan operation by pressing the OPER MODE button.

2 When the dry operation is selected, "Fn" will be shown on the display window as shown on the left side.
- The temperature setting can not be adjusted during operation this mode.

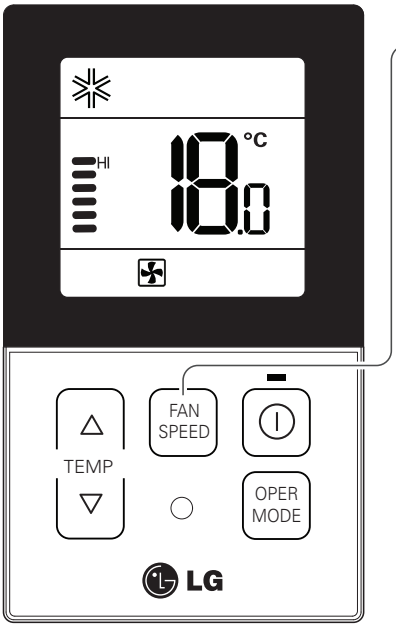
3 Press the FAN SPEED button to select airflow rate [SLO→LO→MED→HI→POW].
When running ventilation, compressor of AHU doesn't work.

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.

Function Setting - Fan Speed Selection

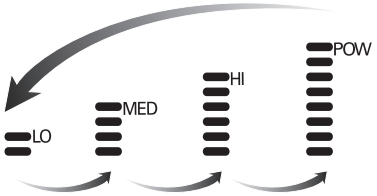
It blows the air as it is in the indoor, not the cold wind.



1 Select the proper fan speed which you want by pressing the button on the remote controller.

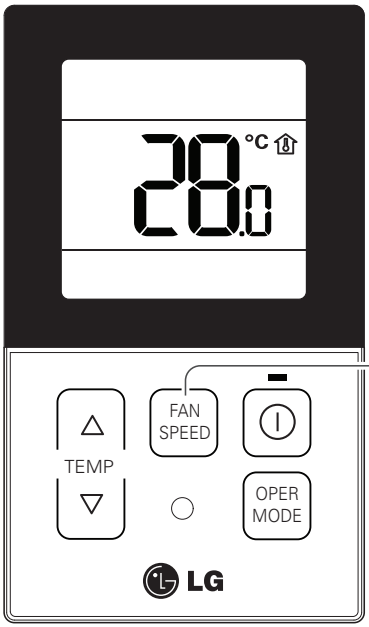
- If you press the FAN SPEED button, the fan speed will change in the order of [SLo→Lo→Med →Hi→Po].
- The initial fan speed is "Hi".
- If the product is not compatible with the fan speed Control, it will not function as per your selection.

Fan Speed Selection in Cooling Operation



Fan Speed Selection in Heating, Dry, Fan, Auto-Operation

Function Setting - Room Temperature Check



1 When prssing the FAN SPEED button of the remote controller Adjustment section for approx. 3 seconds, the room Temperature will be indicated for about 5 seconds
Before resuming to the previous display panel.

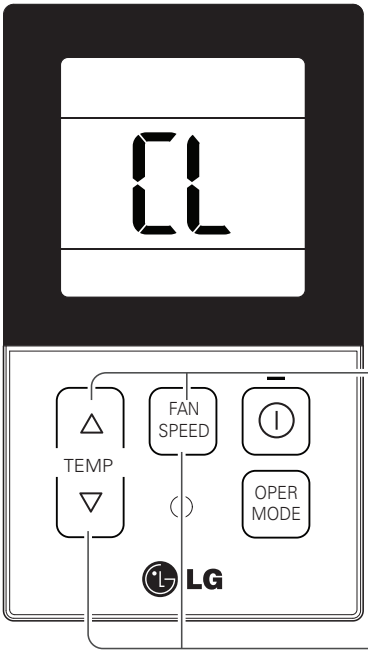
In the case of the room temperature display, the room Temperature can be different in accordance with the Setting of the remote controller's room temperature
Detection selection.

NOTE

- As the temperature distribution of the remote controller Installation space is not uniform, slight difference can be Generated between the actually felt temperature and the room temperature indication of the remote controller.

Function setting - Child Lock

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



1 During the operation, when pressing the [△] button and [FAN SPEED] button for approx. 3 seconds, the 'Child Lock' Function can be used.

- At the time of initial setting of the 'Child Lock', the 'CL' Will be indicated approx. 3 seconds at the temperature Display section before resuming to the previous mode. After the setting of the 'CL', if another button is setup, the button can not be recognized as the 'CL' is indicated at the temperature display section for approx. 3 seconds.

2 If the 'CL' function is wanted to be used under the operation standby state, press the [△] button and [FAN SPEED] Button for approx. 3 seconds under the standby mode state and the system will be the 'CL' state.

3 As for the releasing method, when pressing the [△] Button and [FAN SPEED] button for approx. 3 seconds, the 'CL' function can be released.

MAINTENANCE AND SERVICE

CAUTION

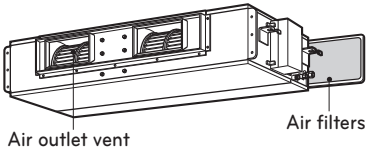
Before performing any maintenance, turn off the main power to the system.

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.

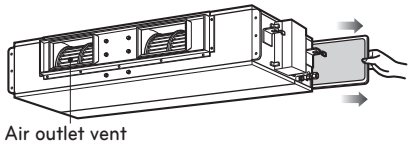
NOTE

Supply power must be disconnected before cleaning the indoor unit.



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 Remove the Air filters.
   - Take hold of the tab and pull slightly forward to remove the filter.

CAUTION

When the air filter is to be removed, do not touch the metal parts of the indoor unit. It may cause an injury.

2 Clean dirt from the air filter using a vacuum cleaner or washing with water.
   - If dirt is conspicuous, wash with a neutral detergent in lukewarm water.
   - If hot water (40 °C or more) is used, it may be deformed.

3 After washing with water, dry well in the shade.
   - Do not expose the air filter to direct sunlight or heat from a fire when drying it.

4. Install the air filter.

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.

When the air conditioner is not going....

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

- Operate the air conditioner at the following settings for 2 to 3 hours.
  Type of operation: Fan operation mode.
  This will dry out the internal mechanisms.
- Turn off the breaker.

CAUTION

Turn off the breaker when the air conditioner is not going to be used for a long time.
Dirt may collect and may cause a fire.

Helpful information

The air filters and your electiric 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.

When the air conditioner is to be used again.

- Clean the air filter and install it in the indoor unit.
- Check that the air inlet and outlet of the indoor/outdoor unit are not blocked.
- Check that the ground wire is connected correctly. It may be connect to the indoor unit side.

Operation Tips!

Do not overcool the room. This is not good for the health and wastes electricity.	Keep blinds or curtains closed. Do not let direct sunshine enter the room when the air conditioner is in operation.	Keep the room temperature uniform. Adjust the vertical and horizontal airflow direction to ensure a uniform temperature in the room.
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.	Clean the air filter regularly. Blockages in the air filter reduce the airflow and lower cooling and dehumidifying effects. Clean at least once every two weeks.	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! Save time and money!

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

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 room air.	**Air conditioner does not operate for about 3 minutes when restart.** - This is the protector of the mechanism. - 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 room air conditioner was first turned on. Allow time for it to cool down. - Has the temperature been set incorrectly? - Are the indoor 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/ constriction of the front panel, etc. due to changes of temperature. **Filter sign lamp (LED) is ON.** - Cleaning the filter, press the Timer button and ◀ button of wired remote controller at the same time for 3 sec.	**Remote control display is faint, or no display at all.** - Are the batteries depleted? - Are the batteries inserted in the opposite (+) and (-) directions?

NOTE

WATER RESISTANT: The outdoor side of this appliance is WATER RESISTANT.
The indoor side is not water resistant and should not be exposed to excess water.