

OWNER'S MANUAL

AIR CONDITIONER

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

TYPE : Ceiling Concealed Duct



P/NO : MFL67449212

<http://www.lghvac.com>
www.lg.com

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FOR YOUR RECORDS

Write the model and serial numbers here:

Model # _____

Serial # _____

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

Dealer's Name _____

Date Purchased _____

■ Staple your receipt to this page in the event you need it to prove date of purchase or for warranty issues.



READ THIS MANUAL

Inside you will find many helpful hints on how to use and maintain your air conditioner properly. Just a little preventive care on your part can save you a great deal of time and money over the life of your air conditioner.

You'll find many answers to common problems in the chart of troubleshooting tips. If you review our chart of

Troubleshooting Tips first, you may not need to call for service at all.



PRECAUTION

- Contact the authorized service technician for repair or maintenance of this unit.
- Contact the installer for installation of this unit.
- The air conditioner is not intended for use by young children or invalids without supervision.
- Young children should be supervised to ensure that they do not play with the air conditioner.
- When the power cord is to be replaced, replacement work shall be performed by authorized personnel only using only genuine replacement parts.
- Installation work must be performed in accordance with the National Electric Code by qualified and authorized personnel only.



Safety Precautions

To prevent injury to the user or other people and property damage, the following instructions must be followed.

- Incorrect operation due to ignoring instruction will cause harm or damage. The seriousness is classified by the following indications.



WARNING

This symbol indicates the possibility of death or serious injury.



CAUTION

This symbol indicates the possibility of injury or damage.



WARNING

Always ground the product.

- There is a risk of electric shock.

For electrical work, contact the dealer, seller, a qualified electrician, or an Authorized Service Center. Do not disassemble or repair the product by yourself.

- There is risk of fire or electric shock.

Use the correctly rated breaker or fuse.

- There is risk of fire or electric shock.

Do not install the product on a defective installation stand. Be sure that the installation area does not deteriorate with age.

- It may cause product to fall.

Be sure to check the refrigerant to the used. Please read the label on the product.

- Incorrect refrigerant used can prevent the normal operation of the unit.

Do not place a heater or other heating appliances near the power cable.

- There is risk of fire and electric shock.

Do not use a defective or underrated circuit breaker. Use the correctly rated breaker and fuse.

- There is risk of fire or electric shock.

Always ground the product as per the wiring diagram. Do not connect the ground wire to gas or water pipes lightning rod or telephone ground wire.

- There is risk of fire or electric shock.

Do not modify or extend the power cable. If the power cable or cord has scratches or skin peeled off or deteriorated then it must be replaced.

- There is risk of fire or electric shock.

Never install the outdoor unit on a moving base or a place from where it can fall down.

- The falling outdoor unit can cause damage or injury or even death of a person.

Don't use a power cord, a plug or a loose socket which is damaged.

- Otherwise it may cause a fire or electrical shock.

Do not allow water to run into electric parts. Install the unit away from water sources.

- There is risk of fire, failure of the product, or electric shock.

Do not use a multi consent. Always use this appliance on a dedicated circuit and breaker.

- Otherwise it can cause electric shock or fire.

Install the panel and the cover of control box securely.

- There is risk of fire or electric shock due to dust, water etc.

For installation, removal or reinstall, always contact the dealer or an Authorized Service Center.

- There is risk of fire, electric shock, explosion, or injury.

When the product is soaked (flooded or submerged) in water, contact an Authorized Service Center for repair before using it again.

- There is risk of fire or electric shock.

Do not touch, operate, or repair the product with wet hands. Hold the plug by hand when taking out

- There is risk of electric shock or fire.

Do not store or use or even allow flammable gas or combustibles near the product.

- There is risk of fire.

Safety Precautions

Indoor/outdoor wiring connections must be secured tightly and the cable should be routed properly so that there is no force pulling the cable from the connection terminals.

- Improper or loose connections can cause heat generation or fire.

In outdoor unit the step-up capacitor supplies high voltage electricity to the electrical components. Be sure to discharge the capacitor completely before conducting the repair work.

- An charged capacitor can cause electrical shock.

Do not use the product in a tightly closed space for a long time. Perform ventilation regularly.

- Oxygen deficiency could occur and hence harm your health.

Ventilate the product room from time to time when operating it together with a stove, or heating element etc.

- Oxygen deficiency can occur and hence harm your health.

Take care to ensure that nobody especially kids could step on or fall onto the outdoor unit.

- This could result in personal injury and product damage.

Do not plug or unplug the power supply plug to turn the unit ON/OFF .

- There is risk of fire or electric shock.

Safely dispose off the packing materials. Like screws, nails, batteries, broken things etc after installation or svc and then tear away and throw away the plastic packaging bags.

- Children may play with them and cause injury.

When installing the unit, use the installation kit provided with the product.

- Otherwise the unit may fall and cause severe injury.

Do not open the front grille 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.

Turn the main power off and unplug the unit when cleaning or repairing the product.

- There is risk of electric shock.

Take care to ensure that power cable could not be pulled out or damaged during operation.

- There is risk of fire or electric shock.

Make sure to check that the power cable plug is not dirty, loose or broken and then only insert the plug completely.

- Dirty, loose or broken power plug can cause electric shock or fire.

Be sure to use only those parts which are listed in the svc parts list. Never attempt to modify the equipment.

- The use of inappropriate parts can cause an electrical shock, excessive heat generation or fire.

If strange sounds, smell or smoke comes from product. Immediately turn the breaker off or disconnect the power supply cable.

- There is risk of electric shock or fire.

When the product is not to 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.

Do not place ANYTHING on the power cable.

- There is risk of fire or electric shock.

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.

CAUTION

Two or more people must lift and transport the product.

- Avoid personal injury.

Keep level even when installing the product.

- To avoid vibration or noise.

Do not install the product where it will be exposed to sea wind (salt spray) directly.

- It may cause corrosion on the product.

Do not install the product where the noise or hot air from the outdoor unit could damage or disturb the neighborhoods.

- It may cause a problem for your neighbors and hence dispute.

Install the drain hose to ensure that the condensed water is drained away properly.

- A bad connection may cause water leakage.

Always check for gas (refrigerant) leakage after installation or repair of product.

- Low refrigerant levels may cause failure of product.

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 or splashing water 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.

- 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 after cleaning. Clean the filter every two weeks or more often if necessary.

- A dirty filter reduces the efficiency.

Do not insert hands or other objects through the air inlet or outlet while the product is operating.

- There are sharp and moving parts that could cause personal injury.

Be cautious when unpacking and installing the product.

- Sharp edges could cause injury.

If the refrigerant gas leaks during the repair, do not touch the leaking refrigerant gas.

- The refrigerant gas can cause frostbite (cold burn)

Do not tilt the unit when removing or uninstalling it.

- The condensed water inside can spill .

Do not mix air or gas other than the specified refrigerant used in the system .

- If air enters the refrigerant system, an excessively high pressure results, causing equipment damage or injury.

If the refrigerant gas leaks during the installation, ventilate the area immediately.

- Otherwise it can be harmful for your health.

Dismantling the unit, treatment of the refrigerant oil and eventual parts should be done in accordance with local and national standards.

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 product failure.

Do not recharge or disassemble the batteries. Do not dispose off 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 hazard.

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 expose your skin or kids or plants to the cool or hot air draft.

- This could harm to your health.

Do not drink the water drained from the product.

- It is not sanitary and could cause serious health issues.

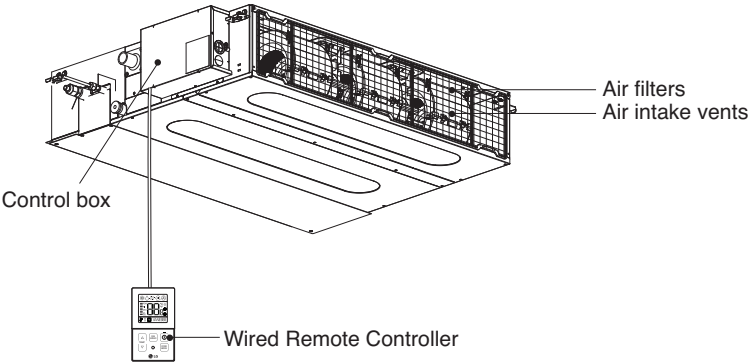
Use a firm stool or ladder when cleaning, maintaining or repairing the product at an height.

- Be careful and avoid personal injury.

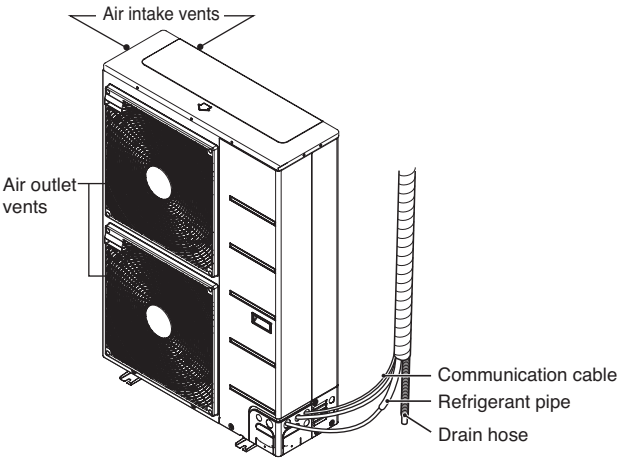
Product Introduction

Here is a brief introduction of the indoor and outdoor units.

Indoor Units

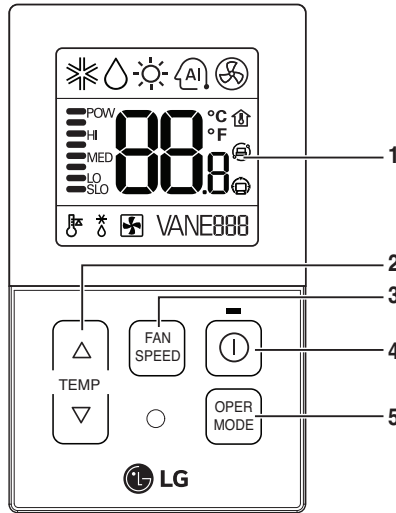


Outdoor Unit



✱ The figure can be changed according to model.

Simple Wired Remote Controller



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

1. Operation Display Panel

Displays the operation conditions.

2. Temperature Control Button

Used to set the temperature when the desired temperature is obtained.

3. Fan Speed Button

Used to set desired fan speed.

4. On/Off Function

Operation starts when this button is pressed, and stops when the button is pressed again.

5. Mode Selection Check Button

Used to select the operation mode.

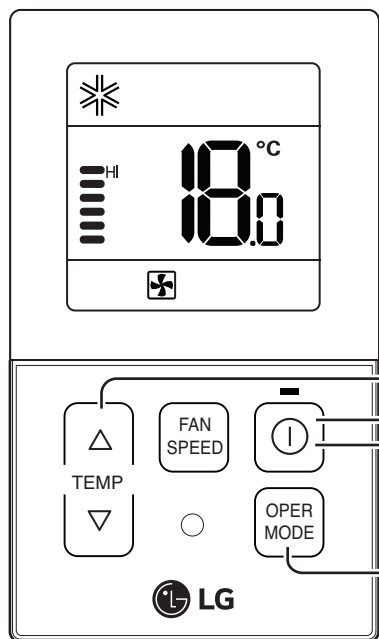
- Cooling operation
- Heating operation
- Auto-operation
- Dry (Dehumidification) operation
- Fan operation


MODEL : PQRCVCL0QW

Operating Introductions

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.



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

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

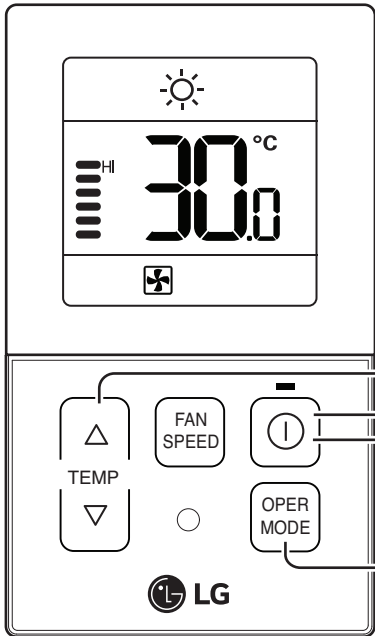
- Setting temp range : 18°C~30°C (64°F~86°F)
- If the desired temperature is set higher than the current room temperature, the cooling function will not begin and just the blowing operation will continue.

3 If you press 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 button.

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



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

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 press 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.

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.

Standard Operation - Auto Operation

In this operation mode, the system is automatically operated by the electronic controls.

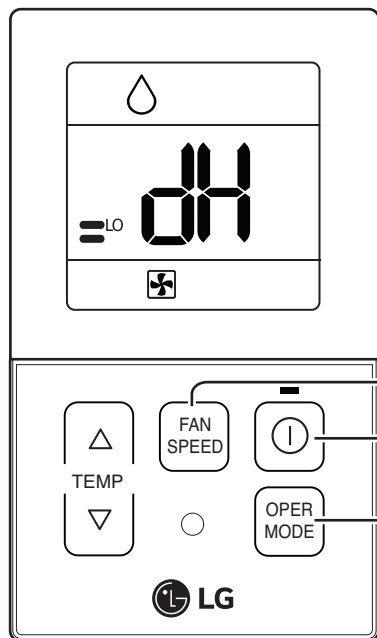
- You can set the desired temperature between 18°C(64°F) and 30°C(86°F) for Auto Operation mode.




NOTE

This function properly operates when you use the remote controller matching each model.

Standard Operation - Dehumidification Mode

It removes humidity while air-cooling weakly.

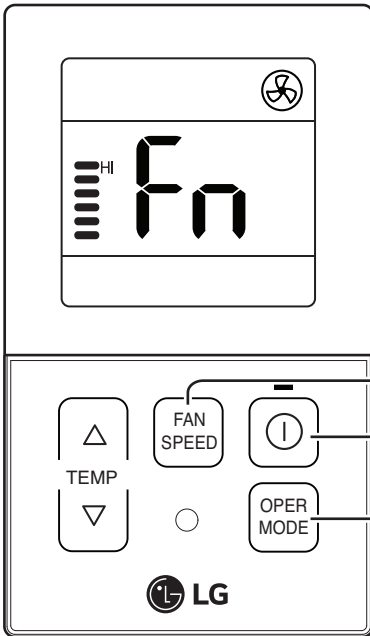





- 1** After operating the product by pressing the  button, set up the dry (Dehumidification) by pressing the  button.
- 2** When the dry operation is selected, "dh" will be shown on the display window as shown on the left side.
 - The temperature setting can not be adjusted during operation this mode.
- 3** Press the  button to select airflow rate [Lo→Med→Hi].
 - The initial wind powerfulness of humidity removal drive is 'weak'.

- 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.

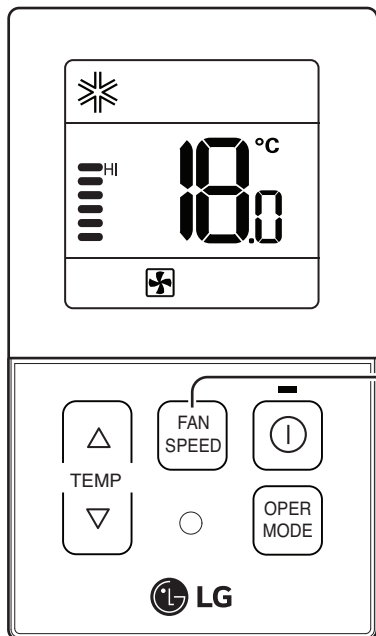



- 1** After operating the product by pressing the  button, set up the fan operation by pressing the  button.
- 2** When the dry operation is selected, "Fn" will be shown on the display window as shown on the left side.
- The temperature setting can not be adjusted during operation this mode.
- 3** Press the  button to select airflow rate [Lo→Med→Hi].
When running ventilation, compressor of AHU doesn't work.


- 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

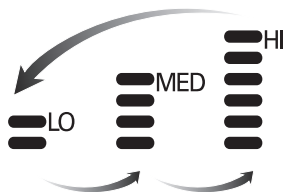
It blows the air as it is in the indoor, not the cold wind.



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

- If you press the  button, the fan speed will change in the order of [Lo→Med→Hi].
- 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.

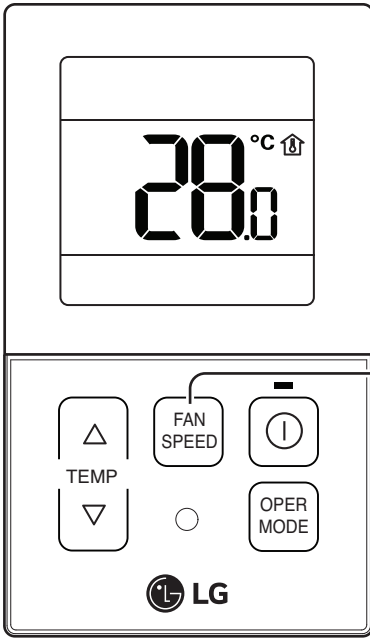
Fan Speed Selection in Cooling Operation




Fan Speed Selection in Heating, Dry, Fan



Function Setting - Room Temperature Check



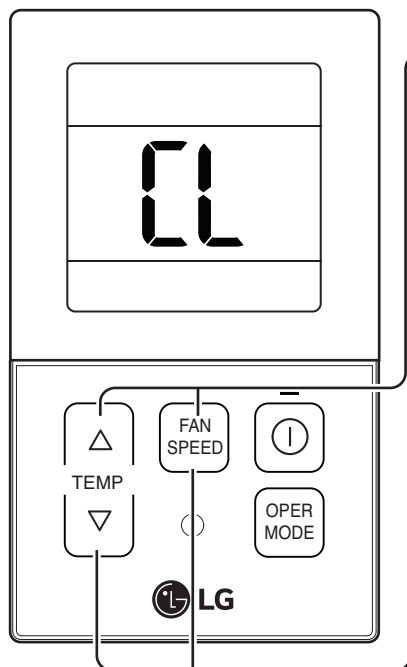
- 1 When pressing the  button of the remote controller Adjustment section for approx. 3 seconds, the room Temperature will be indicated for about 5 seconds Before resuming to the previous display panel.



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.

* 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  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.

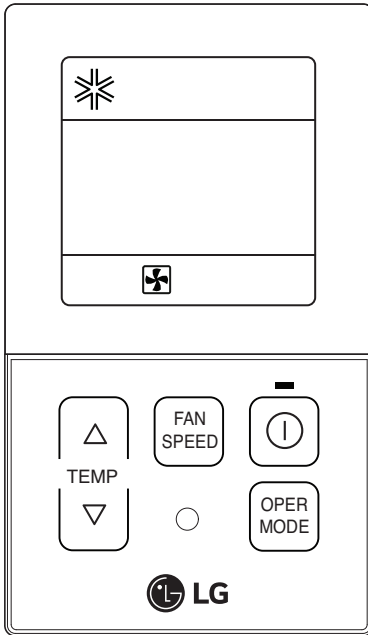
2 If the 'CL' function is wanted to be used under the operation standby state, press the  button and  Button for approx. 3 seconds under the standby mode state and the system will be the 'CL' state.


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

Different mode drive

Different mode drive is a phenomenon taking place when indoor units' drive mode is different in the case that a few indoor units are set up at one AHU.

(Different mode drive doesn't show up at cooling exclusive model.)



- 1** If one indoor unit operate heating mode while several indoor units are operating cooling mode, outdoor segment and cooling segment are blinking like display on the left.
=> It means operation of cooling mode in outdoor unit.
- 2** If one indoor unit operate cooling or dehumidification mode while several indoor units are operating heating mode, outdoor segment and cooling segment are blinking.
=> It means operation of heating mode in outdoor unit.
- 3** If pressing  button, indoor unit automatically runs at the mode that different indoor units are running after about 5 seconds and operates.

- If the product is not compatible with the different mode operation, LCD will be displayed 'CH07'.
- If 'CH07' is displayed, please change the mode.
- Different mode operation is not error.

Maintenance and Service



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

Grille, Case, and Remote Controller

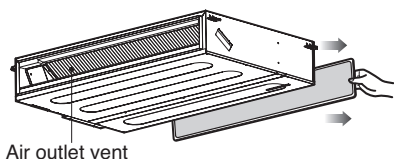
- Turn the system off before cleaning. To clean, wipe with a soft, dry cloth. Do not use bleach or abrasives.

NOTE

Power supply must be disconnected before cleaning the indoor unit.

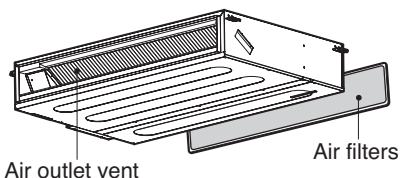
Air Filters

The air filters behind the front grille should be checked and cleaned once every 2 weeks or more often if necessary.



■ 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.



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.

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

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

- 1** 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.

- 2** 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 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.

When the air conditioner is to be used again.

- 1** Clean the air filter and install it in the indoor unit.
- 2** Check that the air inlet and outlet of the indoor/outdoor unit are not blocked.
- 3** 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.

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.

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. Clean at least once every two weeks.

Keep the room temperature uniform.

Adjust the vertical and horizontal airflow direction to ensure a uniform temperature 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.

Before you call for service...



Troubleshooting Tips! Save time and money!

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

<p>The air conditioner does not operate.</p> <ul style="list-style-type: none">• Have you made a mistake in timer operation?• Has the fuse blown or has the circuit breaker been tripped?	<p>The room has a peculiar odor.</p> <ul style="list-style-type: none">• Check that this is not a damp smell exuded by the walls, carpet, furniture or cloth items in the room.	<p>It seems that condensation is leaking from the air conditioner.</p> <ul style="list-style-type: none">• Condensation occurs when the airflow from the air conditioner cools the warm room air.	<p>Air conditioner does not operate for about 3 minutes when restart.</p> <ul style="list-style-type: none">• This is the protector of the mechanism.• Wait about three minutes and operation will begin.
<p>Does not cool or heat effectively.</p> <ul style="list-style-type: none">• 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?	<p>The air conditioner operation is noisy.</p> <ul style="list-style-type: none">• 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.	<p>Crack sound is heard.</p> <div><p>Filter sign lamp is ON.</p><ul style="list-style-type: none">• Cleaning the filter, press the Timer button and ◀ button of wired remote controller at the same time for 3 sec.</div>	<p>Remote control display is faint, or no display at all.</p> <ul style="list-style-type: none">• 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.



US	1. Please call the installing contractor of your product, as warranty service will be provided by them. 2. If you have service issues that have not been addressed by the contractor, please call 1-888-865-3026.
CANADA	Service call Number # : (888) LG Canada, (888) 542-2623