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Multi Type Air Conditioner

OWNER'S MANUAL

Type : Ceiling Concealed Duct - Low Static

IMPORTANT

- Please read this owner's manual carefully and thoroughly before installing and operating your room air conditioner.
- Please retain this owner's manual for future reference after reading it thoroughly.

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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.

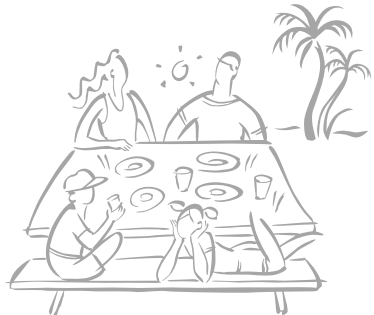
You'll find many answers to common problems in the chart of troubleshooting tips. If you review our chart of

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 to properties only.

■ Meanings of symbols used in this manual are as shown below.

	Be sure not to do.
	Be sure to follow the instruction.

⚠ WARNING

■ 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.

Do not modify or extend the power cable.

- 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.

■ Operation

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 plug or unplug the power supply plug during operation.

- There is risk of fire or electric shock.

Do not allow water to run into electric parts.

- It may cause There is risk of fire, failure of the product, 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

Do not open the inlet grill 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.

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

- There is risk of fire or 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 power cable could not be pulled out or damaged 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 store or use flammable gas or combustibles near the product.

- There is risk of fire or failure of product.

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.

When the product is soaked (flooded or submerged), contact an Authorized Service Center.

- 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 place a heater or other appliances near the power cable.

- There is risk of fire and electric shock.

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

- Oxygen deficiency could occur.

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.

Be cautious that water could not enter the product.

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

Turn the main power off when cleaning or maintaining the product.

- There is risk of electric shock.

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

- This could result in personal injury and product damage.

CAUTION

■ Installation

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

- Low refrigerant levels may cause failure of product.

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.

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

- A bad connection may cause water leakage.

Use two or more people to lift and transport the product.

- Avoid personal injury.

Keep level even when installing the product.

- To avoid vibration or water leakage.

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 two 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.

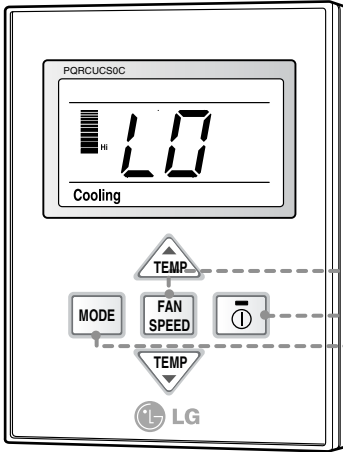
If you eat the liquid from the batteries, brush your teeth and see doctor. Do not use the remote if the batteries have leaked.

- The chemicals in batteries could cause burns or other health hazards.

Necessary functions before using

Trial Operation

The trial operation is to check the installation status of the product. The temperature will not be controlled during trial operation. Instead the product will operate in several modes such as cooling, strong wind, comp-on.



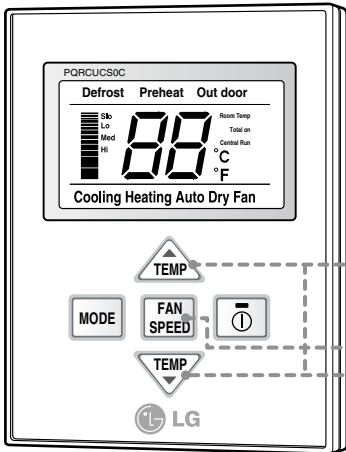
1 If you want to set the trial operation mode, press the mode button and the Fan speed button same time for three seconds.

2 Then the product will begin the trial operation and the display will be like as shown on left side picture.

3 If you want to cancel the trial operation mode, just press the On/Off button.

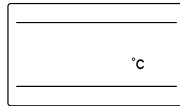
4 The trail operation will be shut down automatically after 18 minutes and system will go to the standby mode.

Celsius/Fahrenheit Switching

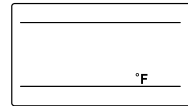


1 If you want to change the temperature unit as the Celsius or Fahrenheit, press the Temperature control button(▼) and the Fan speed button same time for three seconds to enter the setting Mode.

2 Press the temperature control button to change the unit.
Ex) Setting unit as Fahrenheit.



<Setting as Celsius>



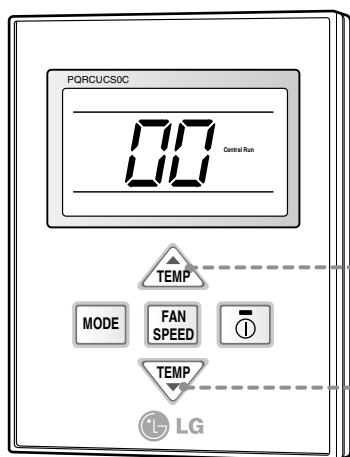
<Setting as Fahrenheit>

3 After setting, press the Temperature control button(▼) and the Fan speed button same time for three seconds to exit the setting Mode.
The system will automatically release without input after 30 seconds.

Setting the Central-Control Address

Please set the address while using the central controller.

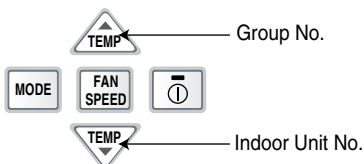
You don't need to set address if you don't use central controller.



1 If you want to set the address on the display panel, press both temperature control buttons (▲/▼) same time for three seconds.

2 Press the temperature-increasing button to change the group number. Press the temperature-decreasing button to change the indoor unit number.
e.g. As shown on the left side panel, it displays 23.
Group No. : 2
Indoor Unit No. : 3

3 Set the address by pressing both temperature control buttons again(▲/▼) at the same time for three seconds.

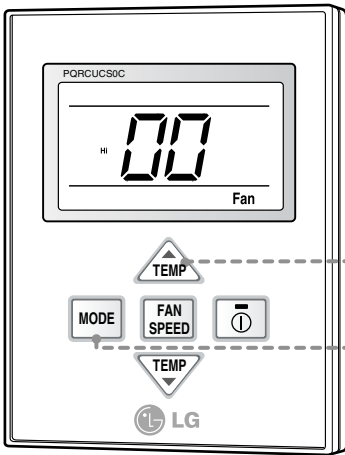


- If you connect the indoor unit to the central controller, you should set the network address of the indoor unit so that the central controller could recognize it.
- The center-control address is composed of the group number and the indoor-unit number.

Note : The remote controller displays 'HL' if central controller has locked the remote controller .

ESP Function

E.S.P function is setting the volume of each fan speed. It is for the convenience of installation. It is recommended that you should not use this function while using the remote controller.



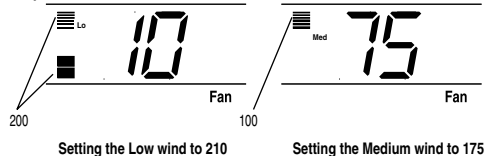
1 Press the mode button and the temperature increasing button(▲) same time for three seconds.

2 Set the volume of each fan speed(Low, Medium, Hi) by using the temperature control button. Press the fan speed button to select the fan speed. The value of E.S.P can be adjusted from 1 to 255.

3 If you press the On/Off button while setting the ESP function, it will be canceled. (The picture on the left side is the example of setting the Hi wind to ESP 10.)

4 Press the mode button and the temperature increasing button (▲) same time for three seconds. Then the ESP setting will be activated after the temperature display flashes three times.

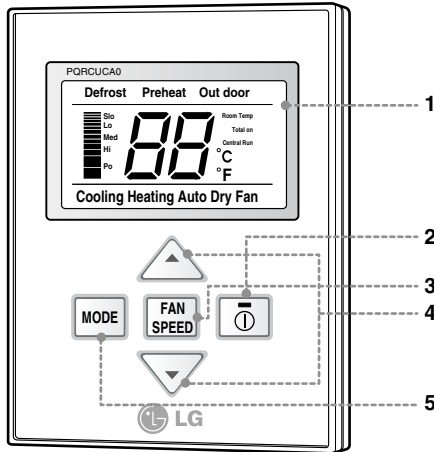
EX)



* The E.S.P value is set at the proper value at the factory. So it is highly recommended that you should not change the E.S.P value at your discretion.

Operating Instructions

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. On/Off Function

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

3. Fan Speed Button

Used to set desired fan speed.

4. Temperature Control Button

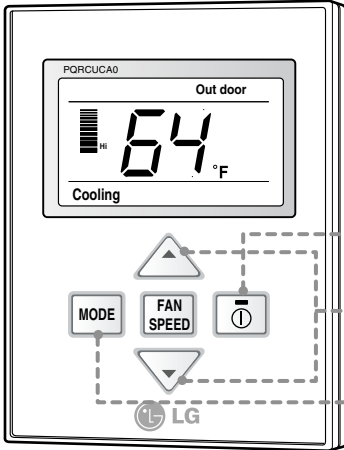
Used to set the temperature when the desired temperature is obtained.

5. Mode Selection Check Button

Used to select the operation mode.

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

Cooling Operation



1 Cooling operation will begin if you press the On/Off button.

* Plasma function is always operating for working if product has plasma function.

2 Press the temperature button and set the desired temperature lower than the current room temperature. 18~30°C(64~86°F)



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

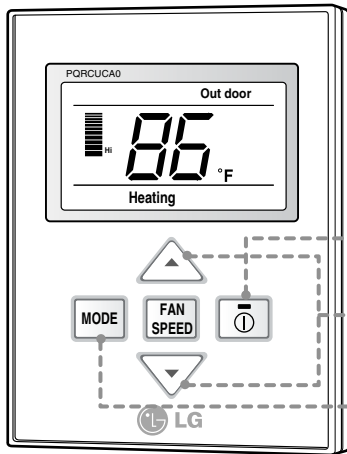
A click of the button will decrease the desired temperature by 1°C(2°F).

* 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, heating, dry(dehumidification), fan and auto-operation.
If the product is a Cooling-Only model, the operation mode will be changed in the order of cooling, dry(dehumidification), fan and auto-operation.

4 If you press the On/Off button, the cooling operation will stop.

Heating Operation



1 If you want to set the heating operation, press the On/Off button. And press the mode button.
* Plasma function is always operating for working if product has plasma function.

2 Set the desired room temperature higher than the current room temperature. 16~30°C(60~86°F)



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

A click of the button will decrease the desired temperature by 1°C(2°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, heating, dry(dehumidification), fan and auto-operation.

4 If you press On/Off button again, the heating operation will stop.

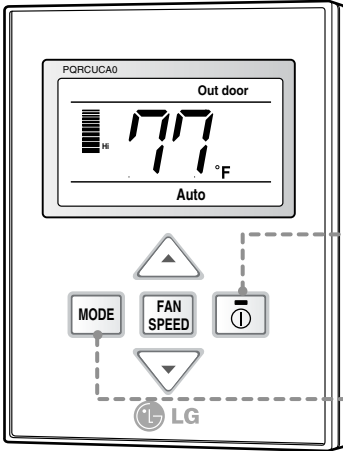


What is the three-minute delay function?

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.

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

Auto-Operation



1 Set the operation mode to auto-operation after pressing the On/Off button.

※ Plasma function is always operating for working if product has plasma function.

2 When the room temperature is lower than the desired temperature: Heating Operation starts
[For Heat Pump Models only]

When the room temperature is higher than the desired temperature: Cooling Operation starts

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

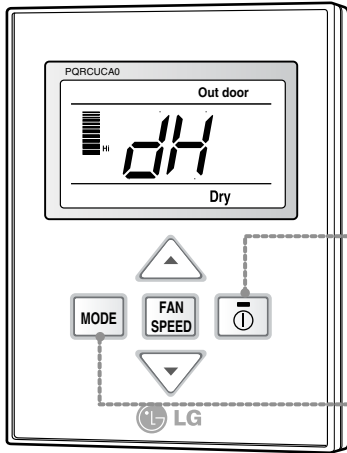
The cooling-only model will show "AI" on the temperature display.

"AI" could be adjusted by five levels (-2, -1, 0, +1, +2).

※ This auto-operation is not related to "Auto Change Over" function.

Dry(Dehumidification) Operation

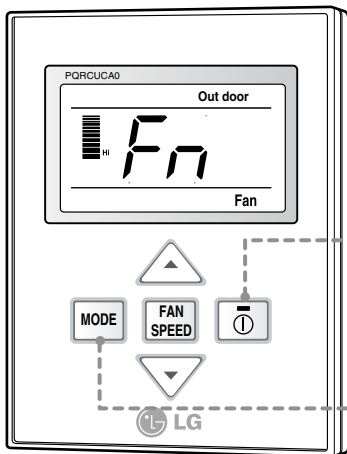
Dry(Dehumidification) by lowering temperature slightly



- 1** Press the On/Off button on the remote controller.
* Plasma function is always operating for working if product has plasma function.
- 2** Set the mode to dry operation by pressing the mode button.
When the dry operation is selected, "dh" will be shown on the display panel as shown on the left side.
- 3** If it is used during rainy season or high humidity, you can have both effective dehumidifying and air conditioning effect.

* Temperature control is not available during the dry operation.

Fan Operation



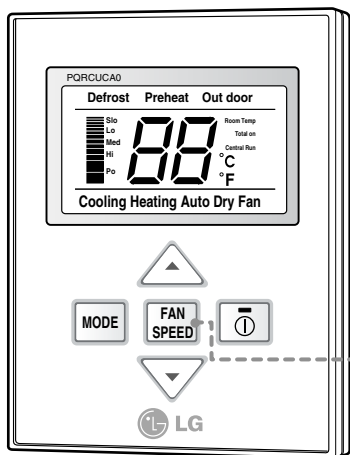
- 1** Press the On/Off button on the remote controller.
* Plasma function is always operating for working if product has plasma function.
- 2** Set the unit to fan operation by pressing the mode button.
- 3** When the fan is selected, "Fn" will be displayed on the display panel.

- 4** • Fan operation does not give cold air, but just the fan air.
• By giving out air that has no difference of temperature with the indoors, it allows circulation of the room.

* Temperature control is not available in the fan operation.

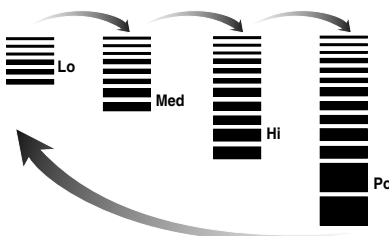
Fan Speed Selection

You can easily control the fan speed.

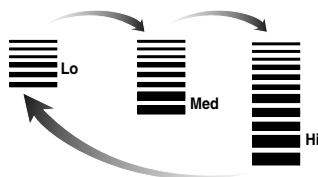


- 1 Select the proper fan speed which you want by pressing the fan speed button on the remote controller.
 - If you press the fan button, the speed of the fan will change in the order of Low>Medium>Hi>Power.
 - The initial fan speed is "Hi"
 - If the product is not compatible with the Fan speed control, it will not function as per your selection.

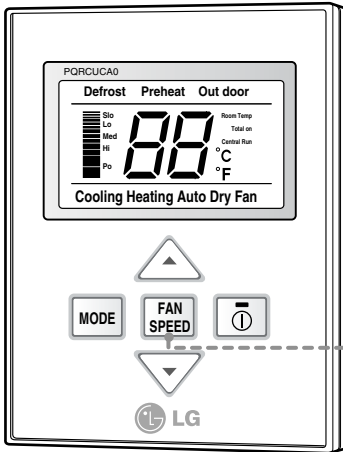
Fan Speed Selection in Cooling Operation



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



Indoor Temperature Display



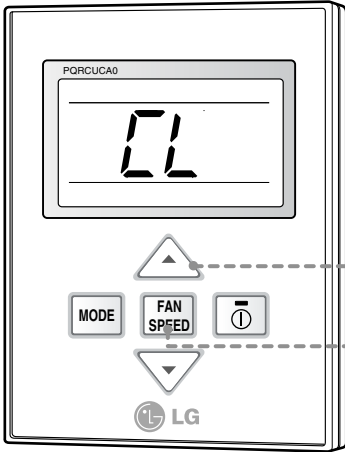
1 When the fan speed button is pressed on the remote controller for about 3 seconds, the indoor temperature will be displayed for about 5 seconds, then goes back to the previous screen.

- Indoor temperature display may differ according to slide S/W1 setting on the remote controller.

* There would be some difference between actual temperature you feel and room temperature of remote controller, because the temperature of the position is not uniform which the remote controller is located on.

Child Lock

This is a function to prevent tampering of settings by children or others.

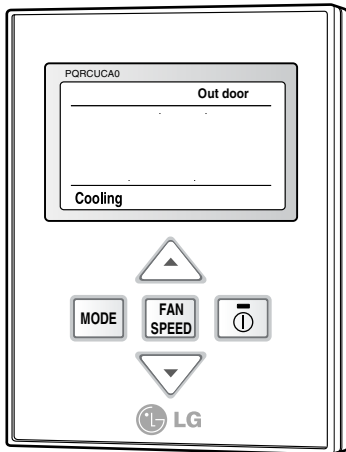


1 You can use the child lock function by pressing both temperature increasing button and fan speed button for three seconds. In the initial setting of the child lock function, "CL" will be displayed on the display panel and then it will come back to the original mode. Now a click of another button will not be recognized and the "CL" is being shown on the display panel for three seconds due to child lock.

2 If you want to cancel the child lock mode, press the temperature increasing button and the fan speed button again for three seconds.

Different Mode Operation

When One outdoor unit have several indoor units, Different Mode Operation is which each indoor unit operate different mode.



1 If one indoor unit operate heating Mode while several indoor units are operating Cooling Mode, Outdoor segment and Cooling segment are blinking like screen 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 is operating Heating Mode, Outdoor segment and Cooling segment is blinking.
→ It means operation of Heating Mode in outdoor unit.

3 When push the On/Off button, the indoor unit operate mode automatically which other indoor unit is operating for 5 second later.

* If the product is not compatible with the Different Mode Operation, Screen 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 Control

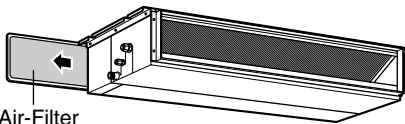
- Turn the system off before cleaning. To clean, wipe with a soft, dry cloth. Do not use bleach or abrasives.

NOTICE

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.



- Never use any of the followings:

- Water hotter than 40°C(104°F)
Could cause deformation and/or discoloration.
- Volatile substances
Could damage the surfaces of the air conditioner.



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(122°F) 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.

When it 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 the health and wastes electricity.

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 blinds or curtains closed.

Do not let direct sunshine enter the room when the air conditioner is in operation.

Ventilate the room occasionally.

Since windows are kept closed, it is a good idea to open them and ventilate the room now and then.

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.

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. <ul style="list-style-type: none"> -This is the sound of freon flowing inside the air conditioner unit. • For a noise that sounds like the compressed air releasing into atmosphere. <ul style="list-style-type: none"> -This is the sound of the dehumidifying water being processed inside the air conditioning unit. 	<p>Crack sound is heard.</p> <ul style="list-style-type: none"> • This sound is generated by the expansion/ constriction of the front panel, etc. due to changes of temperature. <p>Filter sign lamp (LED) 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. 	<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?

NOTICE

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.

