



# LG

## Convertible-Type Air Conditioner

### **OWNER'S MANUAL**

LG

#### **IMPORTANT**

Please read through this manual. It contains valuable information about your air conditioner. This manual may help save time and money by explaining proper product maintenance and preventing improper use.

#### **PRECAUTIONS**

Pay close attention to precautions in order to prevent potential hazards and damage from misuse or improper installation. LG is not responsible for any damages caused by misuse of the product.

Prior to installation, this air-conditioning unit must be submitted for approval by the utility service which provides electricity (EN 61000-3 Norm.)

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- Remote control operations
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## F or 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** \_\_\_\_\_

## 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.

## CAUTION

- 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.
- Installation work must be performed in accordance with the national wiring standards by authorized personnel only.



# Precautions

To prevent injury and property damage, follow these instructions.

⚠ Incorrect operation due to ignoring instructions will cause harm or damage, the seriousness of which is indicated by the following symbols.

	<b>WARNING</b> This symbol shows the possibility of death or serious injury.
	<b>CAUTION</b> This symbol indicates the possibility of injury or damage to property.

	<b>Never Do This</b>
	<b>Always Do This</b>

■ The following items are classified by these symbols.

**WARNING**

<p> <b>Plug in the power plug properly.</b></p> <ul style="list-style-type: none"> <li>• Otherwise, it will cause electric shock or fire due to heat generation or electric shock.</li> </ul>	<p> <b>Do not operate or stop the unit by inserting or pulling out the power plug.</b></p> <ul style="list-style-type: none"> <li>• It will cause electric shock or fire due to heat generation.</li> </ul>	<p> <b>Do not damage or use an unspecified power cord.</b></p> <ul style="list-style-type: none"> <li>• It will cause electric shock or fire.</li> <li>• In the supply cord is damaged, it must be replaced by the manufacturer or its service agent or a similarly qualified person in order to avoid a hazard.(Y Attachment)</li> </ul>
<p> <b>Do not modify power cord length or share the outlet with other appliances.</b></p> <ul style="list-style-type: none"> <li>• It will cause electric shock or fire due to heat generation.</li> </ul>	<p> <b>Do not operate with wet hands or in damp environment.</b></p> <ul style="list-style-type: none"> <li>• It may cause electric shock.</li> </ul>	<p> <b>Do not direct airflow at room occupants only.</b></p> <ul style="list-style-type: none"> <li>• This could damage your health.</li> </ul>
<p> <b>Always perform grounding work.</b></p> <ul style="list-style-type: none"> <li>• No grounding may cause electric shock.</li> </ul>	<p> <b>Do not allow water to run into electric parts.</b></p> <ul style="list-style-type: none"> <li>• It may cause failure of machine or electric shock.</li> </ul>	<p> <b>Always install air leakage breaker and a dedicated switching board.</b></p> <ul style="list-style-type: none"> <li>• No installation may cause fire and electric shock accident.</li> </ul>
<p> <b>Unplug the unit if strange sounds, smell, or smoke comes from it.</b></p> <ul style="list-style-type: none"> <li>• It may cause fire and electric shock accident.</li> </ul>	<p> <b>Do not use the socket if it is loose or damaged.</b></p> <ul style="list-style-type: none"> <li>• It may cause fire and electric shock.</li> </ul>	<p> <b>Do not open the entrance during operation.</b></p> <ul style="list-style-type: none"> <li>• It may cause electric shock.</li> </ul>
<p> <b>Keep firearms away.</b></p> <ul style="list-style-type: none"> <li>• It may cause fire.</li> </ul>	<p> <b>Do not use the power cord close to the heating tools.</b></p> <ul style="list-style-type: none"> <li>• It may cause fire and electric shock.</li> </ul>	<p> <b>Do not use the power cord near flammable gas or combustibles, such as gasoline, benzene, thinner, etc.</b></p> <ul style="list-style-type: none"> <li>• It may cause an explosion or fire.</li> </ul>



## WARNING

**!** Ventilate before operating air conditioner when gas goes out.

- It may cause explosion, fire and, burn.

**!** Do not disassemble or modify products randomly.

- It may cause failure and electric shock.



## CAUTION

**!** Never touch the metal parts of the unit when removing the filter.

- They are sharp and may cause injury.

**!** Do not clean the air conditioner with water.

- Water may enter the unit and degrade the insulation. It may cause an electric shock.

**!** Ventilate well when used together with a stove, etc.

- An oxygen shortage may occur.

**!** When cleaning the unit, first make sure the power and breaker are turned off.

- Since the fan rotates at high speed during operation, it may cause injury.

**!** Do not put a pet or house plant where it will be exposed to direct air flow.

- This could injure the pet or plant.

**!** Do not use appliance for special purpose such as animals or vegetables, precision machine, or conservation of art articles.

- It may cause damage of animals or vegetables or loss of property.

**!** Stop operation and close the window in storm or hurricane.

- Operation with windows opened may cause wetting of indoor and soaking of household furniture.

**!** Hold the plug by the head of the power plug when taking it out.

- It may cause electric shock and damage.

**!** Turn off the main power switch when not using it for a long time.

- It may cause failure of product or fire.

**!** Do not place obstacles around the absorption inlet or instead of blowing-out inlet.

- It may cause failure of appliance or accident.

**!** Ensure that an installation console of the outdoor appliance is not damaged due to the use for a long time.

- If leaving appliance damaged, there is concern of damage due to the falling of product.

**!** Always insert the filters securely. Clean it once every two weeks.

- Operation without filters may cause failure.

**!** Do not use strong detergent such as wax or thinner but use a soft cloth.

- Appearance may be deteriorated due to change of product color or scratching of its surface.

**!** Do not place heavy object on the power cord and take care so that the cord should not be pressed.

- There is danger of fire or electric shock.

**!** Do not drink water drained from air conditioner.

- It contains contaminants and will make you sick.

**!** Use caution when unpacking and installing. Sharp edges could cause injury.

**!** If water enters the product, turn the power switch of the main body of appliance off. After taking the power-plug out from the socket, contact with the service center.

### *Preparing for operation*

- 1 Contact an installation specialist for installation.
- 2 Plug in the power plug properly.
- 3 Do not use a damaged or non-standard power cord. Only power cords supplied by LG or its counterparts should be used.
- 4 Do not share the same outlet with other appliances
- 5 Do not use an extension cord.
- 6 Do not start/stop operation by plugging/unplugging the power cord.

### *Usage*

- 1 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.
- 2 Due to the possibility of oxygen deficiency, ventilate the room when used together with stoves or other heating devices.
- 3 Do not use this air conditioner for non-specified special purposes (e.g. preserving precision devices, food, pets, plants, and art objects). Usage in such a manner could harm such property.

### *Cleaning and maintenance*

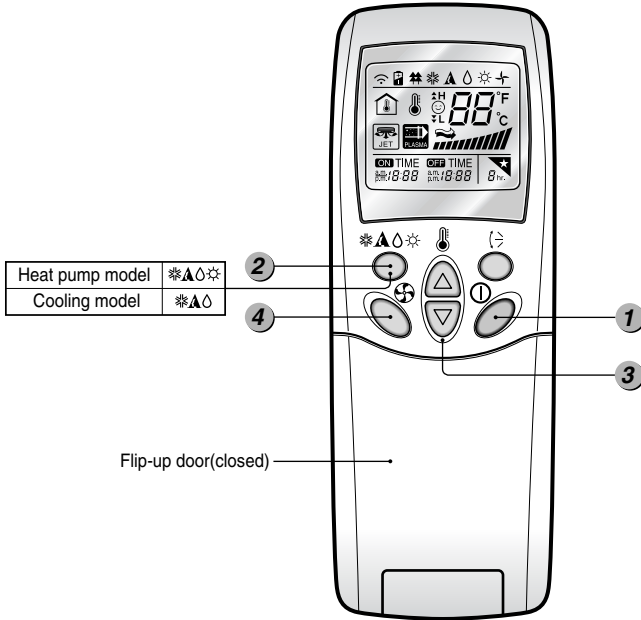
- 1 Do not touch the metal parts of the unit when removing the filter. Injuries can occur when handling sharp metal edges.
- 2 Do not use water to clean inside the air conditioner. Exposure to water can destroy the insulation, leading to possible electric shock.
- 3 When cleaning the unit, first make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

The Remote Control transmits the signals to the system.

## Features of the Remote Control- Door Closed



**1 START/STOP BUTTON**

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

**3 ROOM TEMPERATURE SETTING BUTTONS**

Used to select the room temperature.

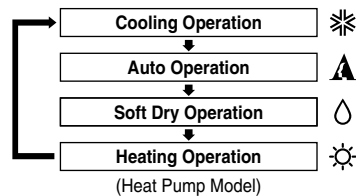
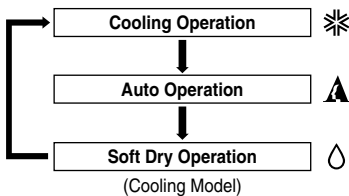
**2 OPERATION MODE SELECTION BUTTON**

Used to select the operation mode.

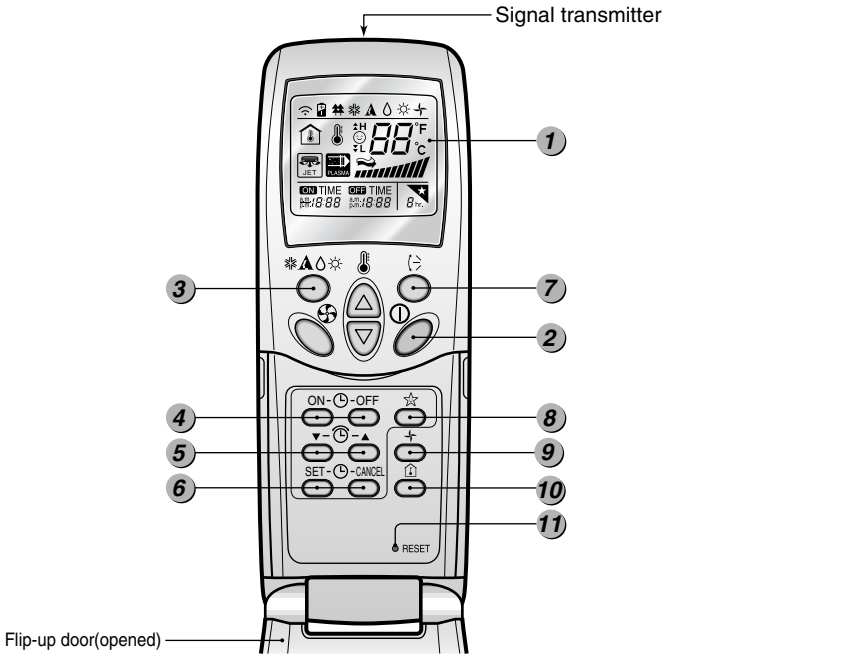
**4 INDOOR FAN SPEED SELECTOR**

Used to select fan speed in four steps-low, medium, high, or CHAOS.

### ■ Operation Mode



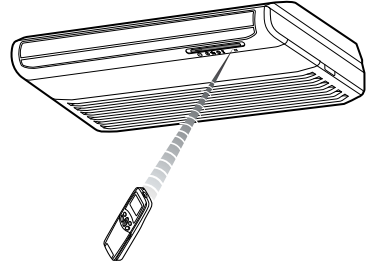
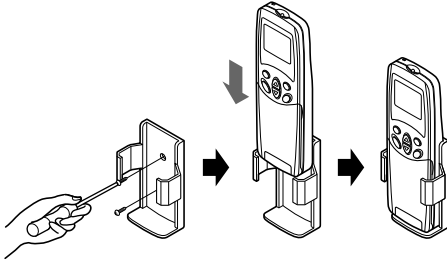
## Features of the Remote Control- Door Opened



- 1 OPERATION DISPLAY**  
Displays the operation conditions.
- 2 START/STOP BUTTON**  
Operation starts when this button is pressed and stops when the button is pressed again.
- 3 OPERATION MODE SELECTION BUTTON**  
Used to select the operation mode.
- 4 ON/OFF TIMER BUTTONS**  
Used to set the time of starting and stopping operation.
- 5 TIME SETTING BUTTONS**  
Used to adjust the time.
- 6 TIMER SET/CANCEL BUTTONS**  
Used to set the timer when the desired time is obtained and to cancel the Timer operation.
- 7 AIR FLOW DIRECTION START/STOP BUTTON**  
Used to stop or start louver movement and set the desired up/down airflow direction.
- 8 SLEEP MODE AUTO BUTTON**  
Used to set Sleep Mode Auto operation.
- 9 AIR CIRCULATION BUTTON**  
Used to circulate the room air without cooling or heating (turns indoor fan on/off).
- 10 ROOM TEMPERATURE CHECKING BUTTON**  
Used to check the room temperature.
- 11 RESET BUTTON**  
Used prior to resetting time or after replacing batteries.

## Storage and Tips For Using the Remote Control

- The remote control may be stored mounted on a wall.
- To operate the room air conditioner, aim the remote control at the signal receptor.
- The remote control will operate the air conditioner at a distance of up to 7m.

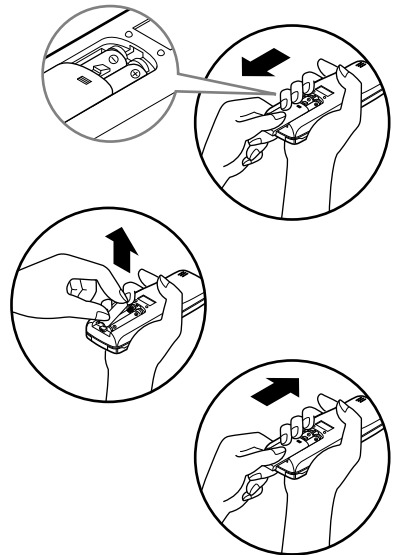


## How to Insert the Batteries

- 1 Remove the battery cover by pulling it according to the arrow direction.
- 2 Insert new batteries making sure that the (+) and (-) of battery are installed correctly.
- 3 Reattach the cover by sliding it back into position.

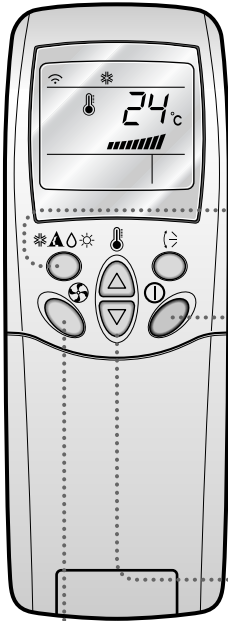
**NOTE:**

- Use 2 AAA(1.5volt) batteries. Do not use rechargeable batteries.
- Remove the batteries from the remote control if the system is not going to be used for a long time.





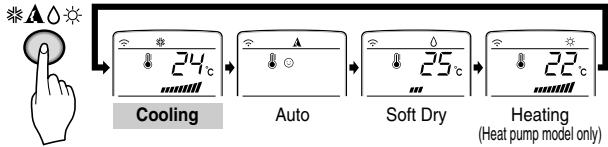
## Cooling Operation



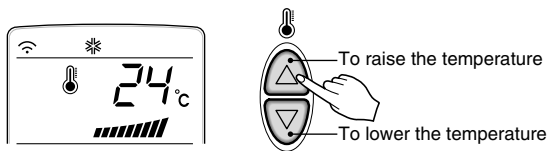
- 1** Press the Start/Stop button.  
The unit will respond with a beep.



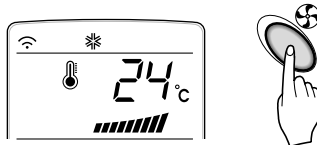
- 2** To select **Cooling Operation**, press the Operation Mode Selection button.  
Each time the button is pressed, the operation mode is shifted in the direction of the arrow.



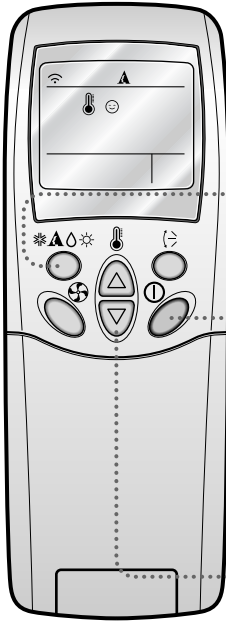
- 3** Set the temperature lower than the room temperature. The temperature can be set within a range of 18°C~30°C in 1°C increments.



- 4** You can select the fan speed in four steps—low, medium, high, or CHAOS. Each time the button is pressed, the fan speed mode is shifted.



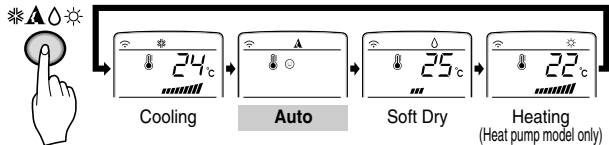
## Auto Operation



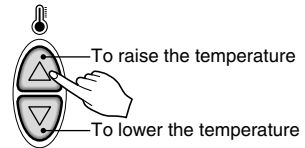
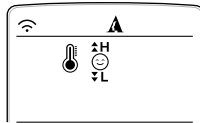
- 1** Press the Start/Stop button.  
The unit will respond with a beep.



- 2** To select **Auto Operation**, press the Operation Mode Selection button.  
Each time the button is pressed, the operation mode is shifted in the direction of the arrow.



- 3** The temperature and fan speed are automatically set by the electronic controls based on the actual room temperature. If you want to change the set temperature, close the door on the remote control and press the Room Temperature Setting buttons. The cooler or warmer you feel, the more times (up to two times) you should press the button. The set temperature will then be changed automatically.



### During Auto Operation:

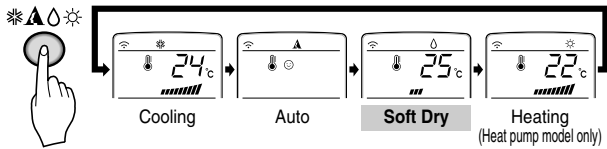
- ❑ You cannot switch the indoor fan speed. It has already been set by the Fuzzy rule.
- ❑ If the system is not operating as desired, manually switch to another mode. The system will not automatically switch from the cooling mode to the heating mode, or from heating to cooling, it must be done by manually resetting.
- ❑ During Auto Operation, pressing the chaos swing button makes the horizontal louvers swing up and down automatically. If you want to stop auto-swing, press the chaos swing button again.

## Soft Dry Operation

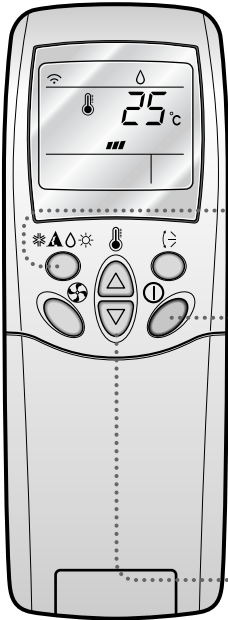
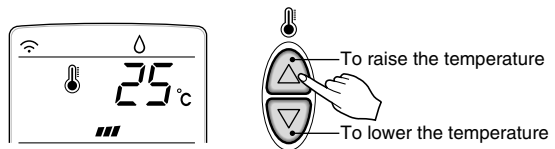
- 1 Press the Start/Stop button.  
The unit will respond with a beep.



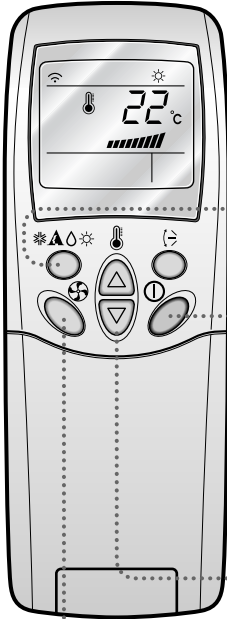
- 2 To select **Soft Dry** operation, press the Operation Mode Selection button.  
Each time the button is pressed, the operation mode is shifted in the direction of the arrow.



- 3 Set the temperature lower than the room temperature. The temperature can be set within a range of 18°C~30°C in 1°C increments.



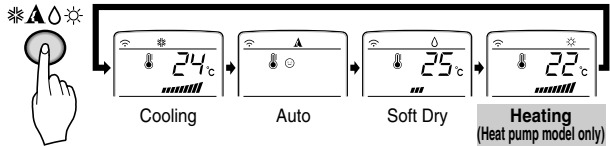
## Heating Operation(Heat pump model only)



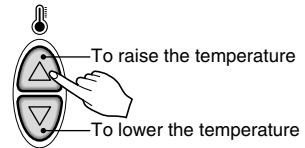
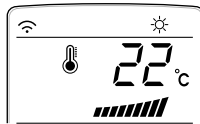
- 1** Press the Start/Stop button.  
The unit will respond with a beep.



- 2** To select **Heating** operation, press the Operation Mode Selection button.  
Each time the button is pressed, the operation mode is shifted in the direction of the arrow.



- 3** Set the temperature higher than the room temperature.  
The temperature can be set within a range of 16°C~30°C in 1°C increments.



- 4** You can select the fan speed in four steps—low, medium, high, or CHAOS. Each time the button is pressed, the fan speed mode is shifted.



## Sleep Mode

- 1 Press the Sleep Mode Auto button to set the time you want the unit to turn off automatically.
- 2 The Timer is programmed in one-hour increments by pressing the Sleep Mode Auto button 1 to 7 times.  
The sleep mode is available for 1 to 7 times. To alter the time period in steps of 1 hour, press the Sleep Mode Button while aiming at air conditioner.
- 3 Make sure the Sleep Mode Auto LED lights up.



To cancel the Sleep Mode, press the sleep Mode Auto button several times until the star (☆) disappears from the operation display.

**Note:** The Sleep Mode will be operated at low fan speed (cooling) or medium fan speed (heat pump only) for quiet sleeping.

IN COOLING MODE: The temperature will automatically rise by 1°C over the next 30 minutes and by 2°C in 1 hour for comfortable sleeping.

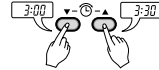
## Setting the Timer

Time can be set only when you have pressed the Reset button. If you have just replaced the batteries, the Reset button should be pressed to reset the time.

- 1 Press the Start/Stop button.



- 2 Press the Time Setting buttons until the desired time is set.



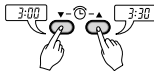
- 3 Press the Timer SET button.



**Note:** Check the indicator for A.M. and P.M.

## Delay Start/Pre-Set Stop

- 1 Make sure the time is set correctly on the remote control display.
- 2 Press the ON/OFF Timer buttons to turn Timer on or off.
- 3 Press the Time Setting buttons until the desired time is set.



- 4 Press the selected on/off setting by pressing the Timer SET button while aiming the remote control at the signal receptor.



### To cancel the setting the timer.



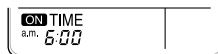
Press the Timer Cancel button while aiming remote control at the signal receptor.

(The timer lamp on the air conditioner and the display will go out.)

**NOTE:** Select one of the following four types of operation.



Delay OFF Timer



Delay ON Timer



Delay OFF and ON Timer

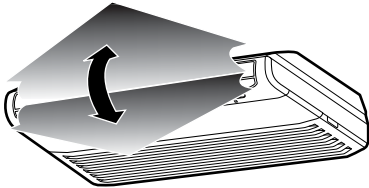


Delay ON and OFF Timer

With the unit running

## Vertical Airflow Direction Control

- 1 The up/down airflow (Vertical Airflow) can be adjusted by using the remote control.



- 2 Press the Start/Stop button to start the unit.
- 3 Press Chaos Swing button and the louvers will swing up and down. Press the Chaos Swing button again to set the vertical louver at the desired airflow direction.



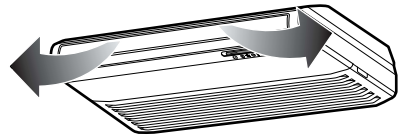
### Note:

- ❑ Always use the remote control to adjust the up/down airflow direction. Manually moving the vertical airflow direction louver by hand could damage the air conditioner.
- ❑ When the unit is shut off, the up/down airflow direction louver will close the air outlet vent of the system.

To adjust left/right(Horizontal Airflow) direction

**Caution :** Ensure unit is turned off before adjusting the horizontal airflow direction control. Carefully open vertical louver to allow access to the horizontal airflow direction.

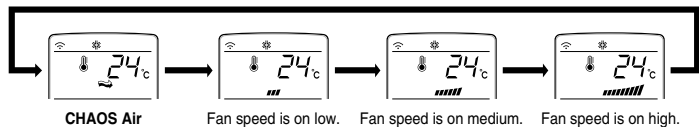
Adjust the left/right airflow direction by hand.



## Air Circulation Mode

Circulates the room air without cooling or heating.

- 1 Press the Start/Stop button. the unit will respond with a beep.
- 2 Press the Air Circulation button. Now each time that you press the Indoor Fan Speed Selector, the fan speed is shifted from low to CHAOS and back to low again.

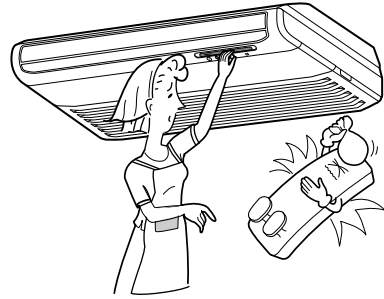


### Note:

- ❑ The fan speed of the indoor unit will automatically cycle depending on the room temperature.
- ❑ **CHAOS Air** economizes power consumption and prevents overcooling. The fan speed is automatically changed from medium to low or vice versa, depending on the ambient temperature.

## Forced Operation

- Operation procedures when the remote control can't be used.
- Press the Forced Operation button.
- If you want to stop operation, press again.
- When started, the operation conditions are automatically set as follows:
- During Forced Operation, the initial mode continues.



	Cooling Model	Heat pump Model		
		Room Temp. $\geq 24^{\circ}\text{C}$	$21^{\circ}\text{C} \leq \text{Room Temp.} < 24^{\circ}\text{C}$	Room Temp. $< 21^{\circ}\text{C}$
Operating mode	Cooling	Cooling	Soft Dry	Heating
Indoor FAN Speed	High	High	Soft Dry Rule	High
Setting Temperature	$22^{\circ}\text{C}$	$22^{\circ}\text{C}$	Air Intake Temperature	$24^{\circ}\text{C}$

## Auto Restart

In case the power comes on again after a power failure, Auto Restarting Operation is the function to operate procedures automatically to the previous operating conditions.

In case the air conditioner does not receive any signal from the remote control, it will turn off automatically after 7 hours.

## When The Front Grille is Opened:

Once the front grille is opened for cleaning of the air filters or other reasons, the unit automatically stops operation for safety: In some 60 Hz models (for cooling only), all memorized functions such as operation mode, room temperature setting, operation start & stop by timer setting, etc. shall be erased.

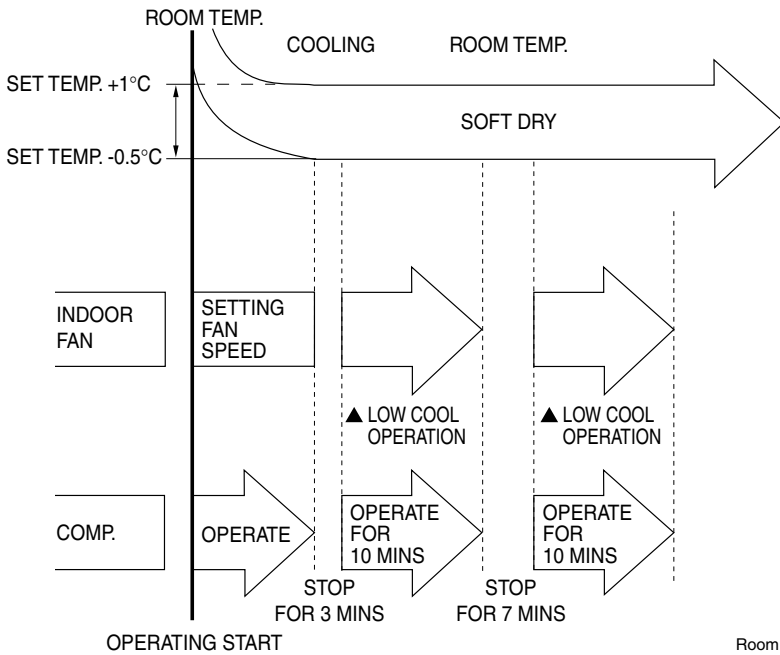
To restart the unit, close the front grille and press the Start/Stop button on the remote controller. If necessary, please reset the reservation functions like operation start & stop and room temperature setting.

## Operation Details

### Soft Dry Operation Mode (Refer to page 11)

When the room temperature is higher than the set temperature, it operates in cooling mode at the set temperature, the set fan speed (if CHAOS mode, then medium.), and then it will be automatically switched to Soft Dry Mode when the room temperature reaches the set temperature.

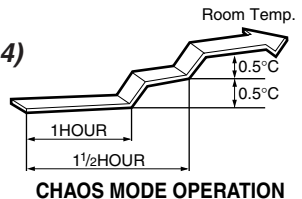
In Soft Dry Operation, the indoor fan speed is automatically switched to the low.



### Natural wind by the CHAOS logic (Refer to page 14)



For more fresh feeling than other fan speed, press the Indoor Fan Speed Selector and set to CHAOS mode. In this mode, the wind blows like natural breeze by automatically changing fan speed according to the CHAOS logic.

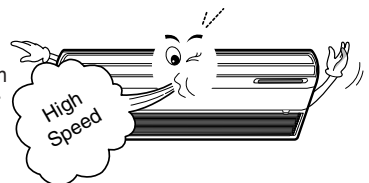


### Helpful information

Fan speed and cooling capacity.

The cooling capacity indicated in the specification is the value when the fan speed is set to high, and the capacity will be lower at low or medium fan speed.

High fan speed is recommended when you wish to cool the room quickly.





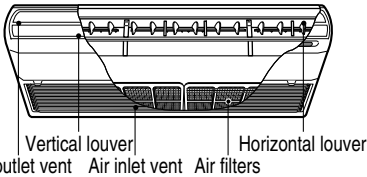
**CAUTION:** Before performing any maintenance, turn off the main power to the system.

## Indoor Unit

### Grille, Case, and Remote Control

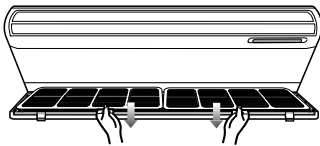
- Turn the system off before cleaning. To clean, wipe with a soft, dry cloth. Do not use bleach or abrasives.

**Note:** Supply power must be disconnected before cleaning the indoor unit.



### 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.

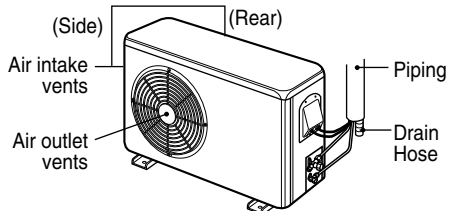


- 1 Lift the front access panel and pull the filter tab slightly forward to remove the filter.
- 2 Clean the filter with a vacuum or warm, soapy water.
  - If dirt is conspicuous, wash with a solution of detergent in lukewarm water.
  - If hot water (50°C or more) is used, it may be deformed.
- 3 After washing with water, dry well in the shade.
- 4 Re-install the air filter.

## Outdoor Unit

The heat exchanger coils and panel vents of the outdoor unit should be checked regularly. If clogged with dirt or soot, the heat exchanger and panel vents may be professionally steam cleaned.

**Note:** Dirty or clogged coils will reduce the operating efficiency of the system and cause higher operating costs.



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

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

**1** Operate the air conditioner on Air circulation mode (Refer to page 14) 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.

**3** Remove the batteries from the remote control.

**When the air conditioner is to be used again.**

**1** Clean the air filter and re-install it in the indoor unit.  
(Refer to page 17 for cleaning filters.)

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

**Operation Tips**

**Do not overcool the room.**

This is not good for your 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.

**Troubleshooting Tips! Save time and money!**

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

<i>Case</i>	<i>Explanation</i>	<i>See page</i>
<b>The air conditioner does not operate.</b>	• Have you made a mistake in timer operation?	13
	• Has the fuse blown or has the circuit breaker been tripped?	-
<b>The room has a peculiar odor.</b>	• Check that this is not a damp smell exuded by the walls, carpet, furniture, or cloth items in the room.	-
<b>It seems that condensation is leaking from the air conditioner.</b>	• Condensation occurs when the airflow from the air conditioner cools the warm room air.	-
<b>Air conditioner does not operate for about 3 minutes when restarted.</b>	• This is the protector of the mechanism. • Wait about three minutes and operation will begin.	-
<b>Does not cool or heat effectively.</b>	• Is the air filter dirty? See air filter cleaning instructions.	17
	• 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?	9, 12
	• Are the indoor unit's air inlet or outlet vents obstructed?	-
<b>The air conditioner operation is noisy.</b>	• 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.	-
<b>Remote control display is faint, or no display at all.</b>	• Are the batteries depleted? • Are the batteries inserted in the opposite (+) and (-) directions?	8
<b>Crack sound is heard.</b>	• This sound is generated by the expansion/constriction of the front panel, etc. due to changes of temperature.	-

**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.



**LG Electronics Inc.**