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OWNER'S MANUAL

AIR CONDITIONER

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

TYPE : CONVERTIBLE & CEILING SUSPENDED

P/NO : MFL67620602

www.lg.com

TABLE OF CONTENTS

A. Safety Precautions 3

B. Product Introduction 6
- Name and function of part 6
- What to do before operation 6
- Operation indication lamps 6

C. Operating Instructions 7
- How to insert the Batteries 7
- Wireless Remote Controller Maintenance 7
- Operating Method 7
- Wireless Remote Controller 8
- Operation Mode 9
- Healthy Dehumidification Operation 10
- Auto Operation (Cooling type, Multi system) 10
- Auto Changeover Operation (Heat Pump type) 10
- Jet Cool/Heat Operation 11
- Forced operation 11
- Sleep Mode 12
- Setting the Current Time 12
- Timer Setting 12
- Vertical / Horizontal Airflow Direction Control 13
- Air Circulation Mode 13
- Auto Restart Function 13

D. Maintenance and Service 14
- Indoor Unit 14
- Operation Tips! 15
- When the air conditioner is not going to be used for a long time 15
- Troubleshooting 16
- Call the service immediately in the following situations 16

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.

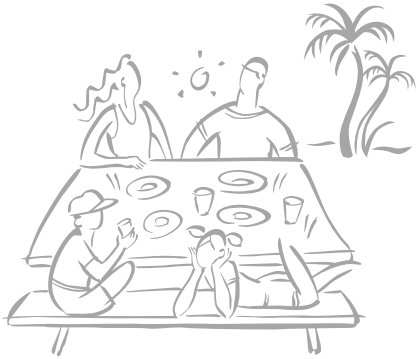
READ THIS MANUAL

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.**



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

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.

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.

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 There is risk of fire, 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 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.

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 outdoor unit.

- This could result in personal injury and product damage.

⚠CAUTION

Always check for gas (refrigerant) leakage 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.

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 anyting 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.

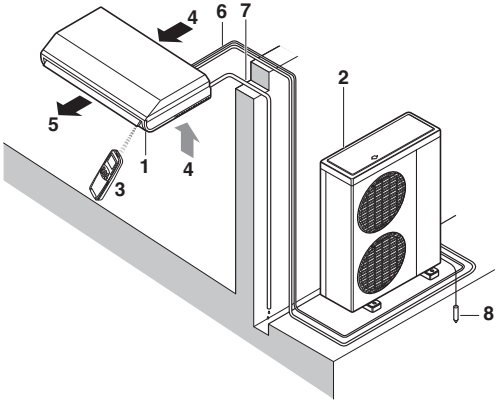
If you eat the liquid from the batteries, brush your teeth and see doctor. Do not use the remote if the batteries have leaked.

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

The Power cord connected to the unit should be selected according to the following specifications .

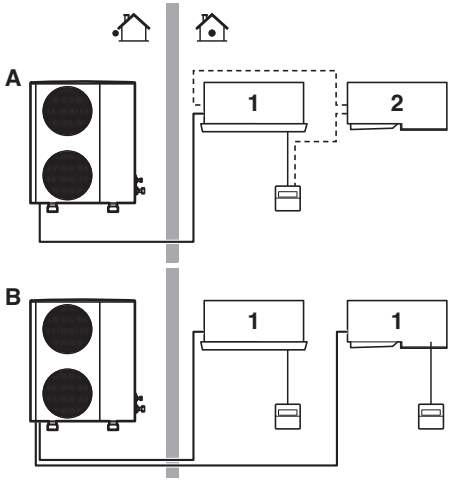
Product Introduction

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.

What to do before operation



If your installation has a customized control system, ask your LG dealer for the operation that corresponds to your system.

A: Pair system or simultaneous operation system
B: Multi system
1: Unit with remote controller
2: Unit without remote controller (when used as simultaneous operation)

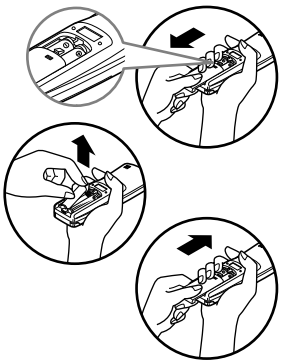
Operation Indication Lamps

	On/Off	: Lights up during the system operation.
	Filter Sign	: Lights up after 2400 hours from the time of first operating unit.
	Timer	: Lights up during Timer operation.
	Defrost Mode	: Lights up during Defrost Mode or Hot Start operation.(Heat pump type)
	Outdoor unit operation	: Lights up during outdoor unit operation. (Cooling type)
	Sleep Mode	: Lights up during Sleep Mode Auto operation.(Option)

Operating Instructions

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.

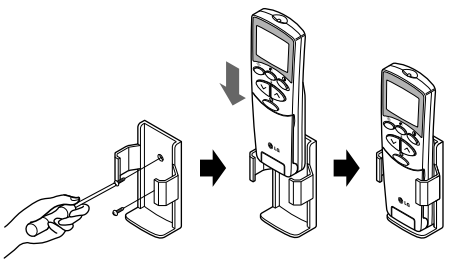


NOTE

1. Always use/replace both batteries of same type.
2. If the system is not to be used for a long time, remove the batteries to save their working life.
3. If the display screen of remote controller starts, fading replace both of the batteries.

Wireless Remote Controller Maintenance

1. Choose a suitable place where its safe & easy to reach.
2. Fix the holder to wall etc with the supplied screws firmly.
3. Slide the remote controller inside the holder.

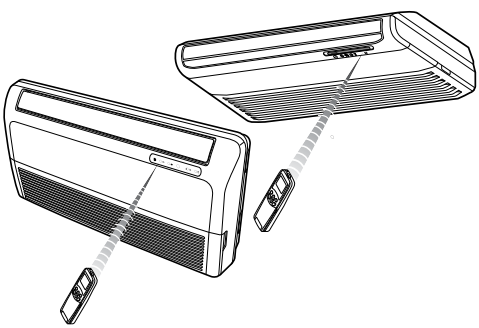


NOTE

1. Remote controller should never be exposed to direct sunlight.
2. Signal transmitter & receiver should always be clean for proper communication. Use a soft cloth to clean them.
3. In case some other appliances also get operated with remote control, change their position or consult your serviceman.

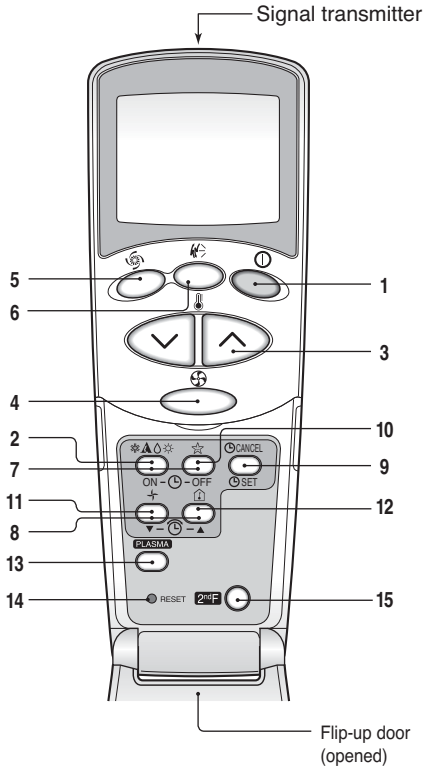
Operating Method

1. The signal receiver is inside the unit.
2. Aim the remote controller towards the unit to operate it. There should not be any blockage in between.

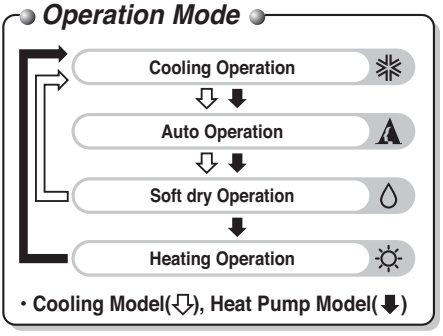


Wireless Remote Controller

The controls will look like the following.



Operation Mode



1. ON/OFF BUTTON
Used to turn off/on the unit.

2. OPERATION MODE SELECTION BUTTON
Used to select the operation mode.

3. ROOM TEMPERATURE SETTING BUTTONS
Used to select the room temperature.

4. INDOOR FAN SPEED SELECTOR BUTTON
Used to select fan speed in four steps
low, medium, high and CHAOS.

5. JET COOL BUTTON
Used to start or stop the speed cooling.
(It operates fan in super high speed in cooling mode)

6. CHAOS SWING BUTTON
Used to stop or start louver movement and set the desired up/down airflow direction.

7. ON/OFF TIMER BUTTONS
Used to set the time of starting and stopping operation.

8. TIME SETTING BUTTONS
Used to adjust the time.

9. TIMER SET/CANCEL BUTTON
Used to set and to cancel the timer operation.

10. SLEEP MODE AUTO BUTTON
Used to set sleep mode auto operation.

11. AIR CIRCULATION BUTTON
Used to circulate the room air without cooling or heating.

12. ROOM TEMPERATURE CHECKING BUTTON
Used to check the room temperature.

13. PLASMA BUTTON(OPTIONAL)
Used to start or stop the plasma-purification function.

14. RESET BUTTON
Used prior to resetting time.

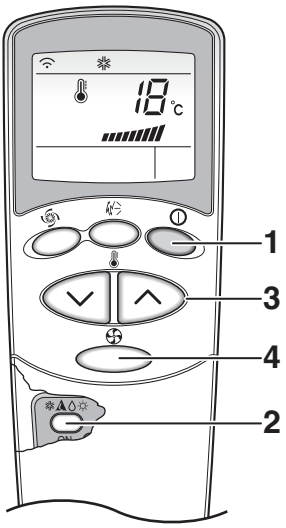
15. 2nd F BUTTON
Used prior to using modes printed in blue at the bottom of buttons.

NOTE

To use the functions printed in blue at the bottom of the buttons press 2nd F button first and then the required function button. Pressing the 2nd F button activates the blue printed function of the respective button. To cancel the function press the 2nd F button again else it will automatically cancel if remains idle after 10 seconds.

❉ The actual product can be different from above contents depending upon model type.

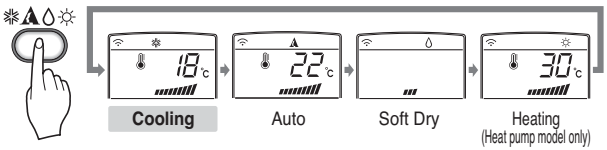
Operation Mode



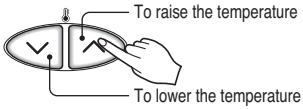
1 Press the ON/OFF BUTTON to turn the unit on.
The unit will respond with a beep.



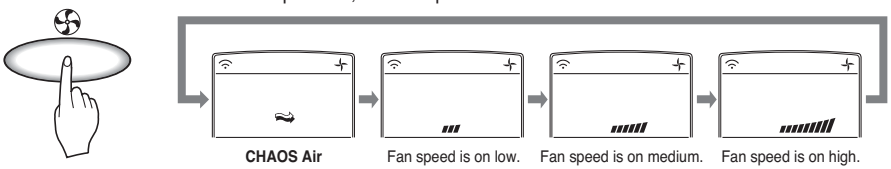
2 Open the door of the remote controller and press the operation mode button. Each time the button is pressed, the operation mode is shifted in the direction of the arrow.



3 For cooling or heating operation set the desired indoor temperature by pressing the ROOM TEMPERATURE SETTING BUTTONS.



4 Set the fan speed with the remote controller. You can select the fan speed in four steps-low, medium, high and CHAOS by pressing the INDOOR FAN SPEED SELECTOR BUTTON. Each time the button is pressed, the fan speed mode is shifted.



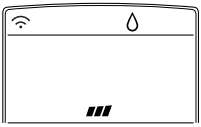
Natural wind by the CHAOS logic

❏ For fresher feeling, press the INDOOR FAN SPEED SELECTOR BUTTON selector and set to CHAOS mode.
In this mode, the wind blows like a natural breeze by automatically changing fan speed according to the CHAOS logic.

NOTE

Auto changeover function is not available for multi system.

Soft dry Operation Mode



Soft dry Operation



During Soft dry Operation

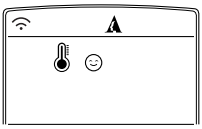
❑ If you select the soft dry mode on the OPERATION MODE SELECTION BUTTON, the product starts to run the soft dry function. It automatically sets the room temperature and airflow volume to the best condition for dehumidification, based on the sensed current room temperature.

In this case, however, the setting temperature is not displayed on the remote controller and you are not able to control the room temperature either.

❑ During the soft dry function, the airflow volume is automatically set according to the optimization algorithm responding to the current room temperature status, so that the room condition is kept healthy and comfortable even in the very humid season.

*To run the soft dry mode follow steps **1**, and **2** and **4** (See operation mode)*

Auto Operation (Cooling type)



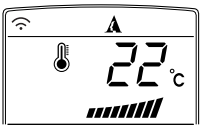
Auto

In this operation mode the actual setting temperature and the fan speed are automatically set by the electronic control logic based on the current room temperature. If you feel hot or cold press the temperature setting buttons respectively for more cooling or heating effect.

NOTE : You cannot set the actual setting temperature and the indoor fan speed in this operation mode. But you can use the Chaos swing in this operation.
If the system is not operating as desired, switch manually to another mode.

*To run the auto operation follow steps **1**, and **2**. (See operation mode)*

Auto Operation (Heat pump type)



Auto

Auto operation basically is heating or cooling function of the air conditioner. But during this operation the controller changes the operation mode automatically to keep the temperature within ±2°C with respect to the setting temperature.

*To run this operation follow steps **1**, **2**, **3**, and **4**. (See operation mode)*

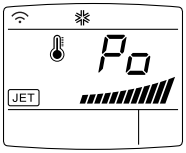
Auto Changeover Operation (Pair system) :

❑ You can switch the indoor fan speed.
❑ The system will automatically switch from the cooling mode to the heating mode, or from heating to cooling, when you select Auto Opration mode.

Auto Operation (Multi system or Simultaneous system) :

❑ You can switch the indoor fan speed.
❑ 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, then you must set the mode and the desired temperature again.

Jet Cool Operation



Jet cool function can be used to cool the room quickly in hot summer. When this function is turned on, the air conditioner runs in cooling operation mode with super high fan speed and 18°C setting temperature for 30 minutes for fast and effective cooling. However for some models Jet cool function continuous till the operation mode is changed.

You can activate this operation by pressing the JET COOL BUTTON.
To change from jet cool mode to high fan speed cooling mode, press the JET COOL BUTTON or INIDOOR FAN SPEED SELECTOR BUTTON or the ROOM TERPERATURE SETTING BUTTON again.

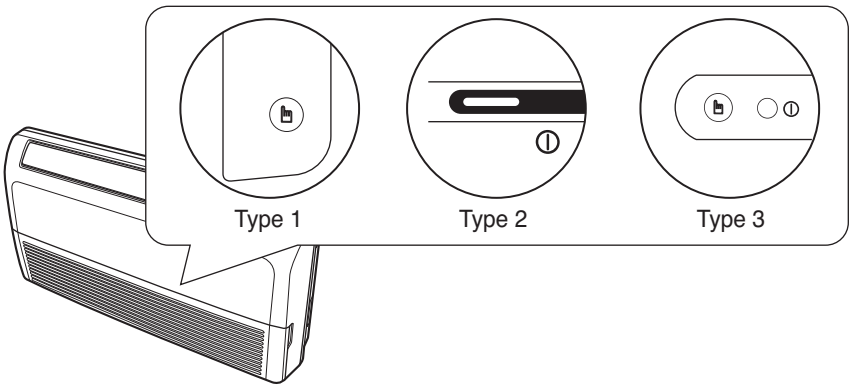


NOTE

• Jet cool function cannot be activated during heating or auto changeover operations.

Forced operation

Operation procedures when the remote control can't be used.
The operation will be started if the ON/OFF button is pressed.
If you want to stop operation, re-press the button.



Test operation

During the TEST OPERATION, the unit operates in cooling mode at high speed fan, regardless of room temperature and resets in 18 minutes.
During test operation, if remote controller signal is received, the unit operates as remote controller sets.
If you want to use this operation, Press and hold the ON/OFF button for 3~5 seconds.
If you want to stop the operation, re-press the button.

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.

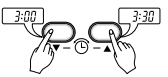
❉ The actual function can be different from above contents depending upon model type.

Setting the Current Time

1. Time can be set only when you press the RESET BUTTON. Having replacing the batteries, you should press the RESET BUTTON to reset the time. Press the Start/Stop button.



2. Press 2nd F button and check if 2nd F icon is on.
3. Press the TIME SETTING BUTTONS until the desired time is set.



4. Press the TIME SET/CANCEL BUTTON.

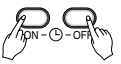


NOTE

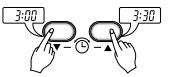
Check the indicator for A.M. and P.M.

Timer Setting

1. Make sure to set current time correctly on the display of the remote controller.



2. Press 2nd F button.
3. Press the ON/OFF TIMER BUTTONS to turn timer on or off.
4. Press the TIME SETTING BUTTONS until the desired time is set.



5. To set the selected time, press the TIMER SETTING BUTTONS aiming the remote controller at the signal receptor.



To cancel the timer setting

Check if 2nd F icon is off.
Press the TIMER CANCEL BUTTON aiming the remote controller at the signal receptor.
(The timer lamp on the air conditioner and the display will go off.)



NOTE

Select one of the following four types of operation.



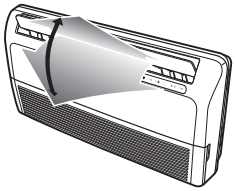
Delay off timer | Delay on timer | Delay off and on timer | Delay on and off timer

Vertical / Horizontal Airflow Direction Control

The up/down airflow (Vertical airflow) can be adjusted by using the remote controller.

1. Press the START/STOP BUTTON to start the unit.
2. Press CHAOS SWING BUTTON.
3. The louvers will swing up & down automatically.





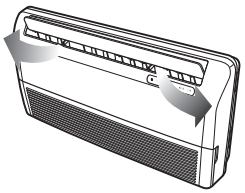
4. To stop the louver at a desired angle, press again

To adjust left/right (Horizontal Airflow) direction

Adjust the left/right airflow direction by hand.

⚠WARNING

: While adjusting vertical airflow direction louvers, be careful not to touch the evaporator.



NOTE

- By pressing the CHAOS SWING BUTTON the horizontal air flow direction is changed automatically based on the chaos algorithm to distribute the air in the room evenly and at the same time to make the human body feel most comfortable as if enjoying natural breeze.
- Always use the remote controller to adjust the up and down air flow direction. Manually moving the vertical air flow direction louver by hand could damage the mechanism.When the unit is shut off, the up/down airflow direction louver will close the air outlet vent of the system.

Air Circulation Mode



This operation circulates the air without cooling or heating. It can be activated by pressing the AIR CIRCULATION BUTTON. Once the air circulation is activated you can select the air speed by pressing the INDOOR FAN SPEED SELECTOR BUTTON.



NOTE

CHAOS Air economizes power consumption and prevents overcooling. The fan speed is automatically changed from high to low or vice versa, depending on the ambient temperature.

Auto Restart Function

In case the power comes on again after a power failure, the unit operates automatically to the previous operating conditions.
So there is no need of activating this function by pressing any key or button.
In the initial mode, the fan operates at a low speed and the compressor starts about 3 minutes later.
As the compressor starts, the fan speed also resumes its previous setting mode.

⚠WARNING

: In case of absence for a long time while power failure, turn off main power to avoid undesired Auto restart.

Maintenance and Service

⚠ CAUTION

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

Indoor Unit

Clean the unit with a soft dry cloth. Do not use bleach or abrasives.

⚠ CAUTION

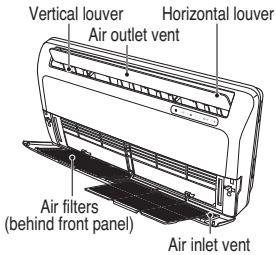
Never use any of these
- Water hotter than 40°C. It may cause deformation and discoloration.
- Volatile substances. They may damage the surface of the air conditioner.

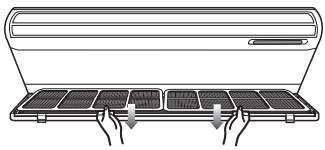


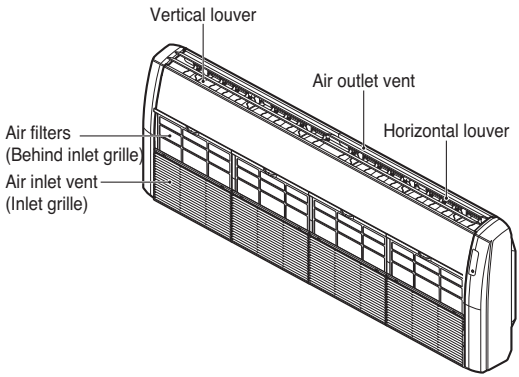
Air Filters

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

1. Lift the front access panel and pull the filter tab slightly forward to remove the filter.
   (Pull the filter hook to take the filter out. - ceiling suspended)
2. Clean the filter with a vacuum cleaner or warm, soapy water.
   - If dirt is conspicuous, wash with a solution of 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.
4. Re-install the air filter.







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 thight.

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 ten.

Use high fan speed for effective and fast cooling.

The unit gives its rated cooling capacity when the fan speed is high.

When the air conditioner is not going ...

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

1. Operate the air conditioner on Air circulation mode for 2 to 3 hours.
   • This will dry out the internal mechanisms.
2. Turn off the circuit breaker, and disconnect the power cable.

⚠ 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 Controller.

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.

Troubleshooting

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

Case	Explanation	See page
The air conditioner does not operate.	• Check room temperature setting?	
	• Check if circuit breaker is on?	
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.	• Check the drain hose is connected tight or if indoor unit is installed even.	
Air conditioner does not operate for about 3 minutes after turning on.	• This is the protector of the mechanism. • Wait about 3 minutes and operation will begin. • About 3 minutes delay is applied to protect compressor from frequenty on/off.	
Does not cool or heat effectively.	• Is the air filter dirty? See air filter cleaning instructions.	14
	• Has the temperature been set correctly?	9
	• 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 refrigerant 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.	
Remote Controller display is faint, or no display at all.	• Are the batteries depleted? • Are the batteries inserted in the opposite (+) and (-) directions?	7
Crack sound is heard.	• This sound is generated by the expansion/constriction of the front panel, etc. due to changes of temperature.	

Call the service immediately in the following situations

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

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


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