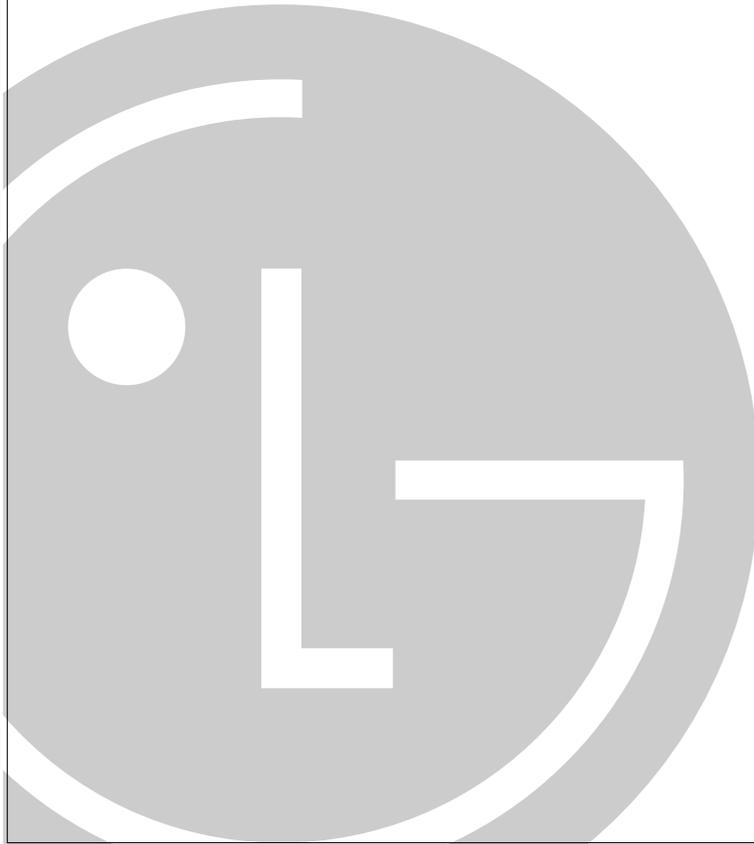




Room Air Conditioner
(Window Type)
OWNER'S MANUAL



Safety Precautions

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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 _____

Operating Instructions

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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.

Installation Instructions

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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 infirm persons without supervision.
- Young children should be supervised to ensure that they do not play with the air conditioner.

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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 of instruction will cause harm or damage, the seriousness is classified by the following indications.

 **WARNING** : This symbol shows the possibility of causing death or serious injury.

 **CAUTION** : This symbol indicates the possibility of injury or damage to properties only.

■ The items to be followed are classified by the following symbols.

	Never Do This
	Always Do This

The airconditioner should be installed in accordance with national wiring regulation
Following circuit breaker/fuse rating to be used as per unit specification
LW-C12..CI(12000 Btu/Hr) 15A, LW-N18..CI(18000 Btu/Hr)-20A ,LW-N24..CI(24,000 Btu/Hr)-30A

WARNING

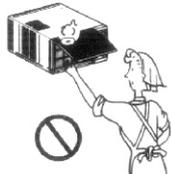
<p>Plug in the power plug properly.</p> <ul style="list-style-type: none"> • Otherwise, it will cause electric shock or fire due to heat generation or electrical shock. 	<p>Do not operate or stop the unit by inserting or pulling out the power plug.</p> <ul style="list-style-type: none"> • It will cause electrical shock or fire due to heat generation. 	<p>Do not damage or use an unspecified power cord.</p> <ul style="list-style-type: none"> • It will cause electrical shock or fire. • If the supply cord is damaged, it must be replaced by a special cord or assembly available from the manufacturer or its service agent. 
<p>Do not modify power cord length or share the outlet with other appliances.</p> <ul style="list-style-type: none"> • It will cause electrical shock or fire due to heat generation. 	<p>Do not operate with wet hands or in damp environment.</p> <ul style="list-style-type: none"> • It may cause electrical shock. 	<p>Do not direct airflow at room occupants only.</p> <ul style="list-style-type: none"> • This could damage your health. 

If your airconditioner is not provided with a plug then there should be some means for disconnection of both live & neutral poles having a contact separation of minimum 3mm & must be incorporated in fixed wiring in accordance to wiring rules

CAUTION

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

- It may cause an injury.



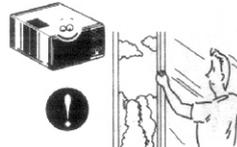
Do not clean the air conditioner with water.

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



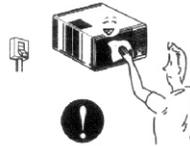
Ventilate well when used together with a stove, etc.

- An oxygen shortage may occur.



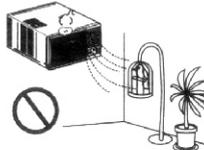
When cleaning the unit, first make sure the power and breaker are turned off.

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



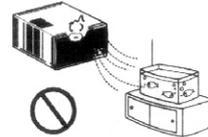
Do not put a pet or house plant where it will be exposed to direct air flow.

- This could injure the pet or plant.



Do not use for special purposes.

- Do not use this air conditioner to preserve precision devices, food, pets, plants, and art objects. It may cause deterioration of quality, etc.



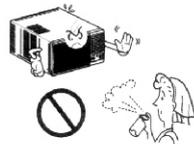
Do not operate switches with wet hands.

- It may cause an electric shock.



Do not apply an insecticide or flammable spray.

- It may cause a fire or deformation of the cabinet.



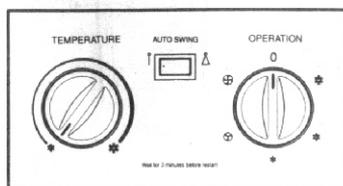
Do not put a heater, etc. where is exposed to direct air flow.

- It may cause imperfect combustion.



About the Controls on the air conditioner

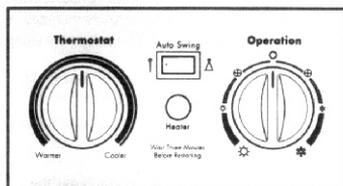
The controls will look like the following.



■ THERMOSTAT (TEMPERATURE)

The **THERMOSTAT/TEMPERATURE** is used to maintain the room temperature. The compressor will cycle on and off to keep the room at the same level of comfort. When you turn the knob to a higher number (the right side) and the indoor air will become cooler.

The 5 or 6 position (the middle position of arc) is a normal setting for average conditions.



■ THERMOSTAT (TEMPERATURE)

The **THERMOSTAT/TEMPERATURE** is used to maintain the room temperature. The compressor will cycle on and off to keep the room at the same level of comfort. The temperature is selected by turning the **THERMOSTAT/TEMPERATURE** knob to the desired position.

■ HEATER LAMP

At the heating operation, the lamp is lighted. When the frost settles on the heat exchanger of the outside, defrosting is made automatically and the lamp is unlighted. After defrosting, the heating operation begins again.

■ AUTO SWING

Auto swing switch controls the horizontal air direction by air swing system (not on all models).

ON (Δ): Auto swing is operated.

OFF (\uparrow): Auto swing is not operated.

■ OPERATION

High Cool (\star), **Med Cool** (\ast) and **Low Cool** (\ast) provide cooling with different fan speeds. **Med Fan** (\oplus) or **Low Fan** (\otimes) provides air circulation and filtering without cooling. **OFF** (\circ) turns the air conditioner off.

NOTE: If you move the switch from a cool setting to off or to a fan setting, wait at least 3 minutes before switching back to a cool setting.

Cooling Descriptions

For Normal Cooling- Select High Cool or Med Cool with the **OPERATION** knob at the midpoint of **THERMOSTAT/TEMPERATURE** knob.

For Maximum Cooling- Select High Cool with the **OPERATION** knob at the highest number available on your **THERMOSTAT/TEMPERATURE** knob.

For Quieter & Nighttime Cooling- Select Low Cool with the **OPERATION** knob at the midpoint of **THERMOSTAT/TEMPERATURE** knob.

■ OPERATION

HIGH (\star) Cool, **LOW** (\ast) Cool provide cooling with different fan speeds. **HIGH** (\oplus) heat, **LOW** (\otimes) heat provide heating with different fan speeds. **FAN** (\oplus) provides air circulation and filtering without cooling or heating. **OFF** (\circ) turns the air conditioner off.

NOTE: If you move the switch from the cool(or the heat) setting to off or to a fan setting, wait at least 3 minutes before switching back to a cool(or heat) setting.

Cooling Descriptions

For Normal Cooling- Select **HIGH** Cool with the **OPERATION** knob at the midpoint of the **THERMOSTAT/TEMPERATURE** knob.

For Maximum Cooling- Select **HIGH** Cool with the **OPERATION** knob at the clockwise available on the **THERMOSTAT/TEMPERATURE** knob.

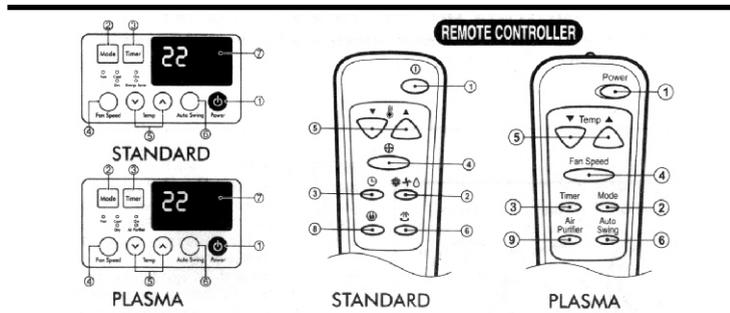
For Quieter & Nighttime Cooling- Select **LOW** Cool with the **OPERATION** knob at the midpoint of the **THERMOSTAT/TEMPERATURE** knob.

Heating Descriptions

For Normal Heating- Select **HIGH** heat with the **OPERATION** knob at the midpoint of the **THERMOSTAT/TEMPERATURE** knob.

For Maximum Heating- Select **HIGH** heat with the **OPERATION** knob at the counterclockwise available on the **THERMOSTAT/TEMPERATURE** knob.

For Quieter Heating- Select **LOW** heat with the **OPERATION** knob at the midpoint of the **THERMOSTAT/TEMPERATURE** knob.



Controls

Precaution: The Remote Control unit will not function properly if strong light strikes the sensor window of the air conditioner or if there are obstacles between the Remote Control unit and the air conditioner.

- POWER BUTTON**
Operation starts, when this button is pressed and stops when you press the button again.
- OPERATION MODE SELECTION BUTTON**
Select Cooling Fan or Dehumidification (Dry) mode with this button.
- ON/OFF TIMER/SLEEP BUTTON**
Set the time of on/off operation. The timer can be set by the one hour for a maximum of 12 hours. In the first 30 minutes set temperature increases by 1°C and in the next 30 minutes temperature increases by another 1°C, this temperature then remains till the timer function is activated. This is how the sleep function behaves.
- FAN SPEED SELECTOR**
Select the fan speed in Three steps Low (F1) / Med. (F2) / High (F3)
- ROOM TEMPERATURE SETTING BUTTON**
Control the room temperature within a range of 16°C to 30°C.
- AUTO SWING**
The vertical louver swings horizontally by the automatic system and stops when you press the button again.
- SIGNAL RECEIVER**
- ENERGY SAVER**
The fan stops when the compressor stops cooling. Approximately even 3 minutes the fan will turn on and check the room air to determine if cooling is needed.
- FOR PLASMA MODEL- AIR PURIFIER**
Used to Start or Stop the Plasma Purification function
 - **AUTO RESTART**
In failure of electric power the unit runs as previous setting operation when power returns.

How to Insert the Batteries

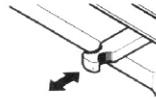
- Remove the cover from the back of the remote controller.
 - Slide the cover according to the arrow direction.
 - Insert the two batteries.
 - Be sure that the (+) and (-) directions are correct.
 - Be sure that both batteries are new.
 - Re-attach the cover.
 - Slide it back into the position.
- Do not use rechargeable batteries, such batteries differ from standard dry cells in shape, dimensions, and performance.
 - Remove the batteries from the remote controller if the air conditioner is not going to be used for an extended length of time.

Additional controls and important information.

Vent Control

The vent control is located above the control knobs.

When set at **CLOSE**, only the air inside the room will be circulated and conditioned. When set at **OPEN**, some inside air is exhausted outside.



CLOSE  **VENT**  **OPEN**

*To open the vent, pull the lever toward you.
To close it, push it in.*

Air Direction

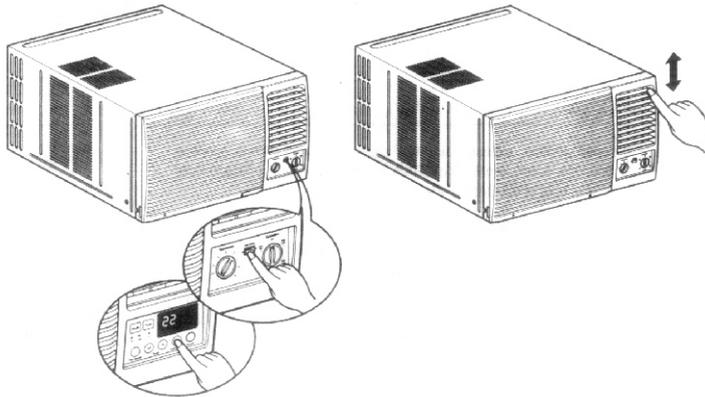
The direction of air can be controlled horizontally or vertically by using the horizontal louver or vertical louver.

• **Horizontal Air-Direction**

The horizontal air direction is adjusted by setting the AUTO SWING switch to the ON position.

• **Vertical Air-Direction**

Fingertip pressure on the bank of horizontal louvers adjusts the air direction up or down



Operating Instructions

Care and Maintenance

Grille and Case

Turn the air conditioner off and remove the plug from the wall outlet before cleaning.

To clean, use water and a mild detergent. Do not use bleach or abrasives.

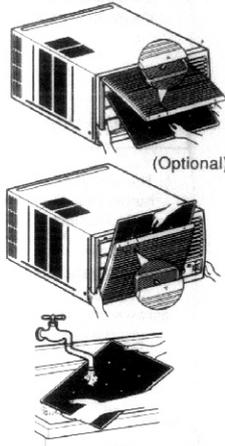
Air Filter

⚠ Ensure the power is off before open the front Grill. The air filter behind the front grille should be checked and cleaned at least once every 2 weeks or more often if necessary. The grille is designed to clean the filter both upward and downward.

To remove:

- Open the inlet grille upward by pulling out the bottom of the inlet grille or downward by pulling out the top of the inlet grille.
- Using the tab, pull up slightly on the filter to release it and pull it down or up.
- Clean the filter with warm, soapy water below 40°C (104°F).
- Rinse and gently shake the water from the filter and let it dry before replacing it.

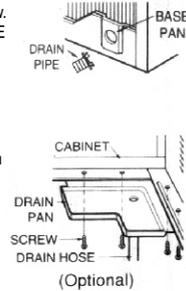
CAUTION: DO NOT operate the air conditioner without a filter because dirt and lint will clog it and reduce performance.



Drainage

In humid weather, excess water may cause the BASE PAN to overflow. To drain the water, remove the DRAIN CAP and secure the DRAIN PIPE to the rear hole of the BASE PAN.

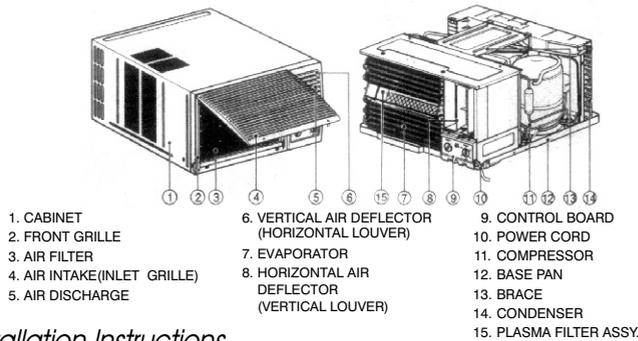
- To remove the condensed water, you can install the drain pan as below.
1. Take the drain pan which is located in the air discharge.
 2. Install the drain pan to the right corner of the cabinet with 4 screws.
 3. Connect the drain hose to the outlet located at the bottom of the drain pan. You can purchase the drain hose or tubing locally to satisfy your particular needs. (Drain hose is not supplied).



Features

Learning parts name prior to installation will help you understanding the installation procedure.

Features



Installation Instructions

Select the Best Location

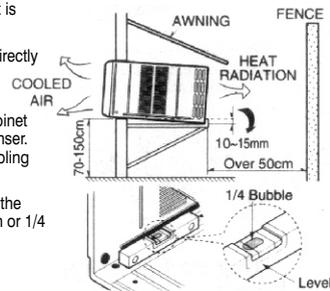
To prevent vibration and noise, make sure the unit is installed securely and firmly.

Install the unit where the sunlight does not shine directly on the unit.

There should be no obstacle, such as a fence or wall, within 50cm from the back of the cabinet because it will prevent heat radiation of the condenser. Restriction of outside air will greatly reduce the cooling efficiency of the air conditioner.

Install the unit a little obliquely outward not to leak the condensed water into the room (about 10 ~ 15mm or 1/4 bubble with level).

CAUTION: All side louvers of the cabinet must remain exposed to the outside of the structure.



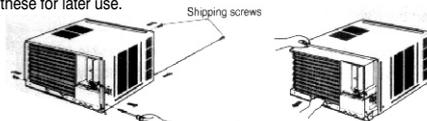
Installation Instructions

Remove the Air Conditioner From the Case

Remove the 2 shipping screws from the back of the case.

Remove the 2 screws on each side of the case. Keep these for later use.

Slide the air conditioner from the case by gripping the base pan handle and pulling forward while bracing the case.

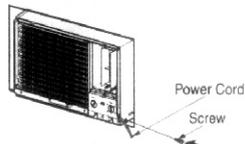


Depending upon your model, the unit sizes are as follows:
WC Chassis : 600x380x567 (W X H X D) mm, WN chassis 660 x428 x770 (W x H X D) mm

Installation Instructions

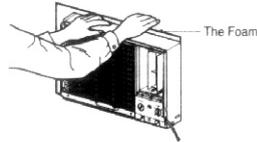
Install the Air Conditioner in the Case

- A** Slide the air conditioner into the case. Reinstall the screws removed earlier on each side of the case.



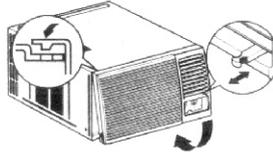
CAUTION: The power cord must be connected to an independent circuit. The green wire must be grounded.

- B** Stuff the foam between the unit and the wall to prevent air and insects from getting into the room.



- C** Before installing the front grille, pull out the vent control lever located above the unit control knobs, as shown.

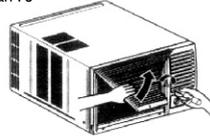
- D** Attach the front grille to the case by inserting the tabs on the grille into the slots on the front of the case. Push the grille in until it snaps into place.



When you detach the front grille from the case, push the grille to your rightside and pull it toward you.



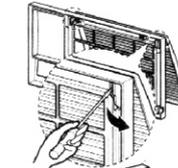
- E** Lift the Inlet grille and secure the front grill with a screw. Lower the inlet grill into place. The maximum lift angle should not be more than 75°.



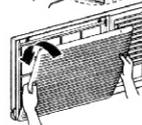
Max opening angle 75 degree

Use the Reversible Inlet Grille (Optional)

- A** If you want to pull out the filter upward, open the inlet grille slightly. Turn inside out the front grille. Disassemble the inlet grille from the front grille with separating the hinged part by inserting a "-" type screw-driver tip. Rotate the inlet grille 180 degrees and insert the hooks into the lower holes of front grille. Then, insert the filter.



- B** If you want to pull out the filter downward, use the reversible inlet grille without change. (The grille is already assembled for that way.)



Before you call for service...



*Troubleshooting Tips
Save time and money! Review the chart below first and you may not need to call for service.*

Normal Operation

- You may hear a pinging noise caused by water being picked up and thrown against the condenser on rainy days or when the humidity is high. This design feature helps remove moisture and improve efficiency.
- You may hear the thermostat click when the compressor cycles on and off.
- Water will collect in the base pan during high humidity or on rainy days. The water may overflow and drip from the outdoor side of the unit.
- The fan may run even when the compressor does not.

Abnormal Operation

Problem		
Air conditioner does not start	■ <i>The air conditioner is unplugged.</i>	• Make sure the air conditioner plug is pushed completely into the outlet.
	■ <i>The fuse is blown/circuit breaker is tripped.</i>	• Check the house fuse/circuit breaker box and replace the fuse or reset the breaker.
	■ <i>Power failure.</i>	• If power failure occurs, turn the OPERATION control to OFF (O) . When power is restored, wait 3 minutes to restart the air conditioner to prevent tripping of the compressor overload.
Air conditioner does not cool as it should	■ <i>Airflow is restricted.</i>	• Make sure there are no curtains, blinds, or furniture blocking the front of the air conditioner.
	■ <i>THERMOSTAT control set too warm.</i>	• Turn the THERMOSTAT knob clockwise to a cooler setting.
	■ <i>The air filter is dirty.</i>	• Clean the filter at least every 2 weeks. See the operating instructions section.
	■ <i>The room may have been hot.</i>	• When the air conditioner is first turned on you need to allow time for the room to cool down.
	■ <i>Cold air is escaping.</i>	• Check for open furnace floor registers and cold air returns. • Set the air conditioner's vent to the closed position.
	■ <i>Cooling coils have iced up.</i>	• See Air Conditioner Freezing Up below.
Air conditioner freezing up	■ <i>Ice blocks the air flow and stops the air conditioner from cooling the room.</i>	• Set the OPERATION control at fan (⊕) or HIGH cool (⊛) with the THERMOSTAT at the warmer position or the temperature at more than 23°C.

Installation Instructions

