



ENGLISH

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OWNER'S & INSTALLATION MANUAL AIR CONDITIONER

Please read this installation manual completely before installing the product.
Installation work must be performed in accordance with the national wiring standards
by authorized personnel only.

Please retain this installation manual for future reference after reading it thoroughly.

Original instruction

[Manufacturer] LG Electronics Inc. Changwon 2nd factory

84, Wanam-ro, Seongsan-gu, Changwon-si, Gyeongsangnam-do, KOREA

This manual is the simplified version of original manual.

You can obtain the original manual from website.



MFL71407516
Rev.12_022625

www.lg.com

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Airborne Noise Emission

The A-weighted sound pressure emitted by this product is below 70 dB.

** The noise level can vary depending on the site.

The figures quoted are emission level and are not necessarily safe working levels.

Whilst there is a correlation between the emission and exposure levels, this cannot be used reliably to determine whether or not further precautions are required.

Factor that influence the actual level of exposure of the workforce include the characteristics of the work room and the other sources of noise, i.e. the number of equipment and other adjacent processes and the length of time for which an operator exposed to the noise. Also, the permissible exposure level can vary from country to country.

This information, however, will enable the user of the equipment to make a better evaluation of the hazard and risk.

Limiting concentration

Limiting concentration is the limit of Freon gas concentration where immediate measures can be taken without hurting human body when refrigerant leaks in the air. The limiting concentration shall be described in the unit of kg/m^3 (Freon gas weight per unit air volume) for facilitating calculation.

Limiting concentration: 0.44 kg/m^3 (R410A)

Refrigerant concentration = $\frac{\text{Total amount of replenished refrigerant in refrigerant facility (kg)}}{\text{Capacity of smallest room where indoor unit is installed (m}^3\text{)}}$

Temperature Range

Model Name	Temperature Range(°C)
APNQ18GS1K1	18~32
APNW24GS1S1	18~32
APNQ30GS1K1	18~32
APNQ50LT3E0	18~32
APNQ100LFT0	18~32
AVNQ48GM2T1	18~32
AVNQ54GM2T1	18~32
AVNQ30GM1T1	18~32
AVNQ36GM2T1	18~32
AVNQ18GM1T1	18~32
AVNQ24GM1T1	18~32
ATNW36GYLT6	18~32
ATNW48GYLT6	18~32
ATNW36GYLTA	18~32
ATNW48GYLTA	18~32
ATNQ36GYLTA	18~32
ATNQ48GYLTA	18~32
ATNQ24GPLT1	18~32
ATNQ48GMLT1	18~32
ATNQ54GMLT1	18~32
ATNQ36GNLT1	18~32
ATNQ30GPLT1	18~32
ATNQ18GPLT1	18~32
ABNQ18GM1T1	18~32
ABNQ24GM1T1	18~32
ABNQ30GM1T1	18~32
ABNQ36GM3T1	18~32
ABNQ48GM3T1	18~32
ABNQ54GM3T1	18~32
ABNQ60LM3T1	18~32

Guidance for Climate Condition

Side	Dry / Wet Bulb	Temperature of Air Entering [Unit: °C]		
		T1	T3	H1
Indoor	Dry Bulb	27	29	20
	Wet Bulb ¹⁾	19	19	15
Outdoor	Dry Bulb	35	46	7
	Wet Bulb	24	24	6

1) Maximum Data for H1

Note

T1: Standard Cooling Capacity Rating Conditions for Moderate Climates

T3: Standard Cooling Capacity Rating Conditions for Hot Climates

H1: Standard Heating Capacity Rating Conditions for Moderate Climates

SAFETY INSTRUCTIONS

The following safety guidelines are intended to prevent unforeseen risks or damage from unsafe or incorrect operation of the appliance.

The guidelines are separated into 'WARNING' and 'CAUTION' as described below.



This symbol is displayed to indicate matters and operations that can cause risk. Read the part with this symbol carefully and follow the instructions in order to avoid risk.



WARNING

This indicates that the failure to follow the instructions can cause serious injury or death.



CAUTION

This indicates that the failure to follow the instructions can cause the minor injury or damage to the product.



WARNING

- Installation or repairs made by unqualified persons can result in hazards to you and others.
- Installation work must be performed in accordance with the National Electric Code by qualified and authorized personnel only.
- The information contained in the manual is intended for use by a qualified service technician familiar with safety procedures and equipped with the proper tools and test instruments.
- Failure to carefully read and follow all instructions in this manual can result in equipment malfunction, property damage, personal injury and/or death.
- Appliance accessible to the general public.

Installation

- Do not use a defective or underrated circuit breaker. Use the correctly rated breaker and fuse.
 - 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 by yourself.
 - There is risk of fire or electric shock.
- Always ground the product as per the wiring diagram. Do not connect the ground wire to gas or water pipes lightning rod or telephone ground wire.
 - There is risk of fire or electric shock.
- Install the panel and the cover of control box securely.
 - There is risk of fire or electric shock due to dust, water etc.
- Use the correctly rated breaker or fuse.
 - There is risk of fire or electric shock.
- Do not modify or extend the power cable. If the power cable or cord has scratches or skin peeled off or deteriorated then it must be replaced.
 - There is risk of fire or electric shock.
- For installation, removal or reinstall, 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. Be sure that the installation area does not deteriorate with age.
 - It may cause product to fall.
- Never install the outdoor unit on a moving base or a place from where it can fall down.
 - The falling outdoor unit can cause damage or injury or even death of a person.

- In outdoor unit the step-up capacitor supplies high voltage electricity to the electrical components. Be sure to discharge the capacitor completely before conducting the repair work.
 - An charged capacitor can cause electrical shock.
- When installing the unit, use the installation kit provided with the product.
 - Otherwise the unit may fall and cause severe injury.
- Indoor/outdoor wiring connections must be secured tightly and the cable should be routed properly so that there is no force pulling the cable from the connection terminals.
 - Improper or loose connections can cause heat generation or fire.
- Safely dispose off the packing materials. Like screws, nails, batteries, broken things etc after installation or svc and then tear away and throw away the plastic packaging bags.
 - Children may play with them and cause injury.
- Be sure to check the refrigerant to be used. Please read the label on the product.
 - Incorrect refrigerant used can prevent the normal operation of the unit.
- Do not touch refrigerant pipe and water pipe or any internal parts while the unit is operating or immediately after operation.
 - It can cause a burn or frostbite.
- If the supply cord is damaged, it must be replaced by the manufacturer, its service agent or similarly qualified persons in order to avoid a hazard.
- The plug accessible have to be accessible for disconnection of the appliance. or means for disconnection must be incorporated in the fixed wiring in accordance with the wiring rules.
- The appliance shall be installed in accordance with national wiring regulations.
- This appliance incorporates an earth connection for functional purposes only.

Operation

- When the product is soaked (flooded or submerged) in water , contact an Authorized Service Center for repair before using it again.
 - There is risk of fire or electric shock.
- Be sure to use only those parts which are listed in the svc parts list. Never attempt to modify the equipment.
 - The use of inappropriate parts can cause an electrical shock, excessive heat generation or fire.
- Do not touch , operate, or repair the product with wet hands. Hold the plug by hand when taking out.
 - There is risk of electric shock or fire.
- Do not place a heater or other heating appliances near the power cable.
 - There is risk of fire and electric shock.
- Do not allow water to run into electric parts. Install the unit away from water sources.
 - There is risk of fire, failure of the product, or electric shock.
- Do not store or use or even allow flammable gas or combustibles near the product.
 - There is risk of fire.
- Do not use the product in a tightly closed space for a long time. Perform ventilation regularly.
 - Oxygen deficiency could occur and hence harm your health.
- Do not open the front grille of the product during operation. (Do not touch the electrostatic filter, if the unit is so equipped.)
 - There is risk of physical injury, electric shock, or product failure.
- If strange sound, smell or smoke comes from product. Immediately turn the breaker off or disconnect the power supply cable.
 - There is risk of electric shock or fire.
- Ventilate the product room from time to time when operating it together with a stove, or heating element etc.
 - Oxygen deficiency can occur and hence harm your health.

- When the product is not to be used for a long time, disconnect the power supply plug or turn off the breaker.
 - There is risk of product damage or failure, or unintended operation.
- Take care to ensure that nobody especially kids could step on or fall onto the outdoor unit.
 - This could result in personal injury and product damage.
- 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.
- When flammable gas leaks, turn off the gas and open a window for ventilation before turning on the product. Do not use the telephone or turn switches on or off.
 - There is risk of explosion or fire.
- Make sure to ventilate sufficiently when this air conditioner and a heating appliance such as a heater are used simultaneously.
 - Failure to do so may result in fire, serious injury, or product failure.
- If the supply cord is damaged, it must be replaced by a special cord or assembly available from the manufacturer of its service agent.
- Do not try to dismantle the system yourself: the dismantling of the system, treatment of the refrigerant, oil and other parts must comply with applicable legislation.

CAUTION

Installation

- Two or more people must 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.
- Install the drain hose to ensure that the condensed water is drained away properly.
 - A bad connection may cause water leakage.
- Keep level even when installing the product.
 - To avoid vibration or noise.
- Do not install the product where the noise or hot air from the outdoor unit could damage or disturb the neighborhoods.
 - It may cause a problem for your neighbors and hence dispute.
- Always check for gas (refrigerant) leakage after installation or repair of product.
 - Low refrigerant levels may cause failure of product.
- Pipe-work shall be protected from physical damage.
- Use the deoxidized copper as piping materials to install.
- If anyone other than a licensed Professional installs, repairs, or alters LG Electronics Air Conditioning Products, the warranty is voided.
 - All costs associated with repair are then the full responsibility of the owner.
- Do not insert a drain hose in drain or soil pipe.
 - Bad smells can occur and it results in a corrosion of a heat exchanger or pipe.
- Do not install the unit in potentially explosive atmospheres.

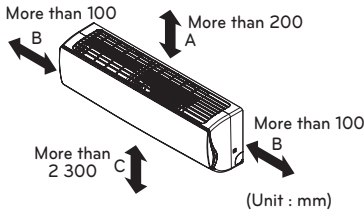
Operation

- 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.
- Means for disconnection must be incorporated in the fixed wiring in accordance with the wiring rules.
- Appliance shall be disconnected from its power source during service and when replacing parts.

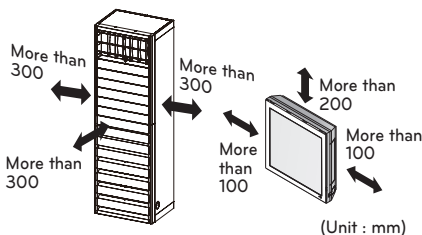
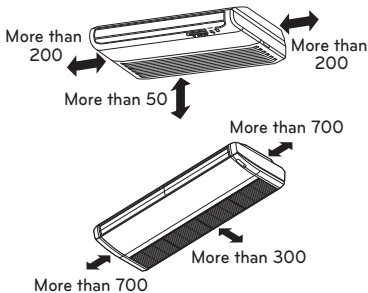
- Do not block the inlet or outlet of air flow.
 - It may cause product failure.
- Use a soft cloth to clean. Do not use harsh detergents, solvents or splashing water etc.
 - There is risk of fire, electric shock, or damage to the plastic parts of the product.
- Do not touch the metal parts of the product when removing the air filter.
 - There is risk of personal injury.
- Do not step on or put anything on the product. (outdoor units)
 - There is risk of personal injury and failure of product.
- Always insert the filter securely after cleaning. Clean the filter every two weeks or more often if necessary.
 - A dirty filter reduces the efficiency.
- Do not insert hands or other objects through the air inlet or outlet while the product is operating.
 - There are sharp and moving parts that could cause personal injury.
- Be cautious when unpacking and installing the product.
 - Sharp edges could cause injury.
- If the refrigerant gas leaks during the repair, do not touch the leaking refrigerant gas.
 - The refrigerant gas can cause frostbite (cold burn).
- Do not tilt the unit when removing or uninstalling it.
 - The condensed water inside can spill.
- Do not mix air or gas other than the specified refrigerant used in the system.
 - If air enters the refrigerant system, an excessively high pressure results, causing equipment damage or injury.
- If the refrigerant gas leaks during the installation, ventilate the area immediately.
 - Otherwise it can be harmful for your health.
- Dismantling the unit, treatment of the refrigerant oil and eventual parts should be done in accordance with local and national standards.
- Replace the all batteries in the remote control with new ones of the same type. Do not mix old and new batteries or different types of batteries.
 - There is risk of fire or product failure.
- Do not recharge or disassemble the batteries. Do not dispose off batteries in a fire.
 - They may burn or explode.
- If the liquid from the batteries gets onto your skin or clothes, wash it well with clean water. Do not use the remote if the batteries have leaked.
 - The chemicals in batteries could cause burns or other health hazards.
- If you swallow the battery fluid from a leak, wash out the inside of your mouth thoroughly and then consult a doctor.
 - Failure to do so may result in serious health complications.
- Do not let the air conditioner run for a long time when the humidity is very high and a door or a window is left open.
 - Moisture may condense and wet or damage furniture.
- Do not expose your skin or kids or plants to the cool or hot air draft.
 - This could harm to your health.
- Do not drink the water drained from the product.
 - It is not sanitary and could cause serious health issues.
- Use a firm stool or ladder when cleaning, maintaining or repairing the product at an height.
 - Be careful and avoid personal injury.
- This appliance is not intended for use by persons (including children) with reduced physical, sensory or mental capabilities, or lack of experience and knowledge, unless they have been given supervision or instruction concerning use of the appliance by a person responsible for their safety. Children should be supervised to ensure that they do not play with the appliance.
- This appliance can be used by children aged from 8 years and above and persons with reduced physical, sensory or mental capabilities or lack of experience and knowledge if they have been given supervision or instruction concerning use of the appliance in a safe way and understand the hazards involved. Children shall not play with the appliance. Cleaning and user maintenance shall not be made by children without supervision.

INSTALLATION PLACES

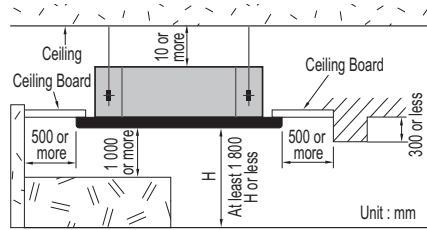
- There should not be any heat source or steam near the unit.
- There should not be any obstacles to prevent the air circulation.
- A place where air circulation in the room will be good.
- A place where drainage can be easily obtained.
- A place where noise prevention is taken into consideration.
- Do not install the unit near the door way.
- Ensure the spaces indicated by arrows from the wall, ceiling, or other obstacles.
- The indoor unit must keep the maintenance space.
- The basic installation for the round type should be in an exposed area. Do not install at a non exposed installation site such as areas with ceiling texture.



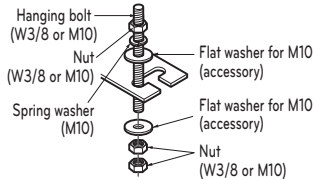
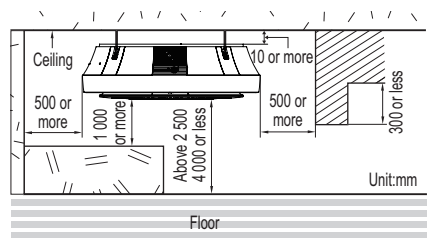
Type	A	B	C
Wall mounted	200	100	2 300
ART COOL	200	500	1 500
ART COOL Mirror	200	100	2 300
Console	300	300	250 or less
Floor Standing	300	300	300



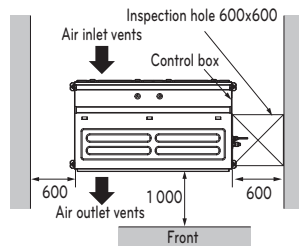
< Type : 4, 2, 1 Way >



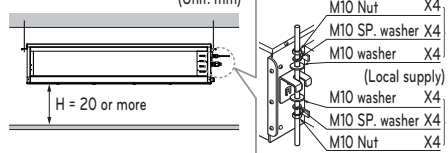
< Type : Round >



Top view



Side view



- Suitable dimension "H" is necessary to get a slope to drain as shown in the figure.
- The feature may be changed according to the type of model.

ELECTRIC WIRING WORK

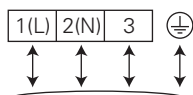
General instructions

- All field supplied parts and materials, electric works must conform to local codes. Use copper wire only.
- Follow the "WIRING DIAGRAM" attached to the unit body to wire the outdoor unit, indoor units and the remote controller.
- All wiring must be performed by an authorized electrician.

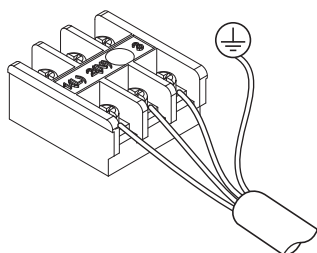
Wiring Connection

Connect the wires to the terminals on the control board individually according to the outdoor unit connection.

Ensure that the color of the wires of outdoor unit and the terminal No. are the same as those of indoor unit respectively.



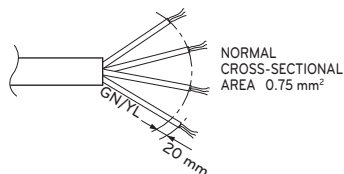
Connected to outdoor unit or B.D. unit.



- The feature may be changed according to the type of model.

CAUTION

- The connecting cable connected to the indoor and outdoor unit should be complied with the following specifications (Rubber insulation, type H05RN-F approved by HAR or SAA).



Rated current of appliance A.	Nominal cross-sectional area mm ²
≤ 0.2	Tinsel cord
> 0.2 and ≤ 3	0.5
> 3 and ≤ 6	0.75
> 6 and ≤ 10	1.0 (0.75)
> 10 and ≤ 16	1.5 (1.0)
> 16 and ≤ 25	2.5
> 25 and ≤ 32	4
> 32 and ≤ 40	6
> 40 and ≤ 63	10

NOTE For **supply cords** supplied with multi-phase appliances, the nominal cross-sectional area of the conductors is based on the maximum cross-sectional area of the conductors per phase at the **supply cord** connection to the appliance terminals.

- Supply and communication cable of appliances shall not be lighter than polychloroprene sheathed. (code designation 60245 IEC 57)
- Pipes and wires should be purchased separately for installation of the product.

Using the remote controller

You can operate the air conditioner more conveniently with the remote controller. You will find the buttons for the additional functions under the cover of the remote control.

MAINTENANCE

Clean the product regularly to maintain optimal performance and to prevent possible breakdown.

CAUTION

- Turn off the power and unplug the power cord before you perform any maintenance; otherwise it may cause electric shock.
- Never use water that is hotter than 40 °C when you clean the filters. It may cause deformation or discoloration.
- Never use volatile substances when you clean the filters. They may damage the surface of the product.

Operation Tips!

- **Do not over cool 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 tight.**
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 then.

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 at the following settings for 2 to 3 hours.
 - Type of operation: Fan operation mode.(Refer to page "Fan Mode")
 - This will dry out the internal mechanisms.
- 2 Turn off the breaker.

CAUTION

Turn off the breaker when the air conditioner is not going to be used for a long time. Dirt may collect and may cause a fire.

- 3 Remove the batteries from the Remote Controller.

Helpful information

The air filters and your electric bill. If the air filters become clogged with dust, the cooling capacity will drop, and 6 % of the electricity used to operate the air conditioner will be wasted.

When the air conditioner is to be used again.

- 1 Clean the air filter and install it in the indoor unit. (Refer to page "Maintenance and Service")
- 2 Check that the air inlet and outlet of the indoor/outdoor unit are not blocked.
- 3 Check that the ground wire is connected correctly. It may be connect to the indoor unit side.

Troubleshooting Tips! Save time and money!

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

Case	Explanation
The air conditioner does not operate.	<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?
The room has a peculiar odor.	<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.
It seems that condensation is leaking from the air conditioner.	<ul style="list-style-type: none"> • Condensation occurs when the airflow from the air conditioner cools the warm room air.
Air conditioner does not operate for about 3 minutes when restart.	<ul style="list-style-type: none"> • This is the protector of the mechanism. • Wait about three minutes and operation will begin.
Does not cool or heat effectively.	<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 setting temperature been set incorrectly? • Are the indoor unit's air inlet or outlet vents obstructed?
The air conditioner operation is noisy.	<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.
Crack sound is heard.	<ul style="list-style-type: none"> • This sound is generated by the expansion/contraction of the inlet grille, etc. due to changes of temperature.
Remote control display is faint, or no display at all.	<ul style="list-style-type: none"> • Has the circuit breaker been tripped? • Are the batteries inserted in the opposite (+) and (-) directions?
The error code is occurred after lightning struck	<ul style="list-style-type: none"> • This product has been applied to the over current protection circuit. Error can occur, but it is normal behavior. After few minutes, It will operate normally.

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.

After Sales Service (Egypt Only)

Shelf Life Time: 7 Years

LG is committed to providing all spare parts of this appliance during the shelf life time.

Instructions for Unpacking and Packing

Unpacking

- 1 Before unpacking the appliance, wear gloves and do it in a safe place to avoid injury.
- 2 Remove the packaging box and remove all cushions inside.
- 3 Remove any tape or vinyl from the appliance.
- 4 Remove packaging completely from appliance.
- 5 Please keep it for using it later.

Packing

- 1 Before packaging the appliance, wear gloves and do it in a safe place to avoid injury.
- 2 Place the appliance on top of the packaging using the original packaging.
- 3 Attach vinyl and adhesive tape to the appliance.
- 4 Assemble cushions and packaging box.

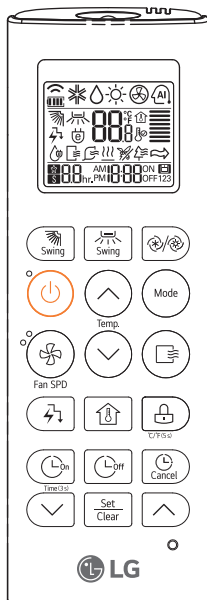


CAUTION

- When installing the appliance, contact a service center for installation.
- When lifting or moving the appliance, be careful not to get hurt.
- Be careful not to scratch the heat exchanger or the appliance.

Wireless remote controller

<Type 1>



Control panel	Description
	You can turn the air conditioner on and off.
FAN SPD	You can easily adjust the desired air speed.
	You can adjust the desired temperature by pressing the buttons.
Mode	You can select the desired operation mode by pressing the appropriate button. • Operation modes: Cooling, heating, dehumidification, air blowing, AI
	It automatically removes the moisture remaining inside the air conditioner when the air conditioner is turned off.
Swing Swing	You can set up/down rotation or left/right rotation.
	It can cool the indoor space at a rapid rate. • If you wish to select power cooling, press the power mode button after pressing the cooling button. • If you wish to select power heating, press the power mode button after pressing the heating button.
	You can bring the effect of the power saving. • Capacity may decrease when this mode is selected.
	You Can check the indoor temperature. • The room temperature is displayed for 3 seconds and then returns to the previous screen.
C/F (5.9)	When the lock function is set, the function won't change no matter which button on the product is pressed. • In operation this function, display key will be locked and air conditioner indicates "CL" on its display panel whenever you press any button. • If you press this button for 3 seconds, you can change temperature unit(°C/°F).
ON Time(3s)	ON reservation: The air conditioner turns on automatically at the set time. • If you press this button for 3 seconds, you can set the current time.
OFF	OFF reservation: The air conditioner turns off automatically at the set time.
CANCEL	It cancels the set reservation.
	Set the desired reservation time by pressing the buttons.
SET/CLEAR	You can set or cancel reservations.

*Depending on the model, the functions applied may vary.

Handling the remote control

- Aim at the signal receptor on the floor standing type air conditioner when operating.
- The remote control signal can be received at a distance of up to about 7 meters.
- Be sure that there are no obstructions between the remote control and the signal receptor.
- Do not drop or throw the remote control.
- Do not place the remote control in a location exposed to direct sunlight, or next to a heating unit, or other heat source.
- The feature may be changed according to the type of model.
- Some functions may not be supported, depending on the model.

NOTE

Some buttons cannot be used by model's function.