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QUICK 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.

VENTILATOR
Original instruction

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LG Electronics European Shared Service Center B.V.
Krijgsman 1, 1186 DM Amstelveen, The Netherlands
[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 www.lg.com.

www.lg.com

P/NO : MFL69268903

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IMPORTANT SAFETY INSTRUCTIONS

READ ALL INSTRUCTIONS BEFORE USING THE APPLIANCE.

Always comply with the following precautions to avoid dangerous situations and ensure peak performance of your product

⚠ WARNING

This symbol indicates the possibility of death or serious injury.

⚠ CAUTION

This symbol indicates the possibility of injury or damage.

⚠ WARNING

Installation

- Do not use a defective or underrated circuit breaker. Use this appliance on a dedicated circuit.
  - There is risk of fire or electric shock.
- For electrical work, contact the dealer, seller, a qualified electrician, or an authorized service center.
  - Do not disassemble or repair the product. There is risk of fire or electric shock.
- Always ground the product.
  - There is risk of fire or electric shock.
- Install the panel and the cover of control box securely.
  - There is risk of fire or electric shock.
- Always install a dedicated circuit and breaker.
  - Improper wiring or installation may cause fire or electric shock
- Use the correctly rated breaker or fuse.
  - There is risk of fire or electric shock.
- Do not modify or extend the power cable.
  - There is risk of fire or electric shock.
- Do not install, remove, or re-install the unit by yourself (customer).
  - There is risk of fire, electric shock, explosion, or injury.
- Be cautious when unpacking and installing the product.
  - Sharp edges could cause injury.
- 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.
- Do not let the product 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.
- For re-installation of the installed product, always contact the dealer or an authorized service center.
  - There is risk of fire, electric shock, explosion or injury.
- Do not open the maintenance cover of the main body during operation.
  - Otherwise, it may cause electrical shock.
- Use the outdoor air suction hole with the net installed to ensure that birds could not come in.
  - Remove estrange things like the bird's nest. Otherwise, it may cause scarcity of indoor oxygen.
- Install the air intake where polluted air can not be directly sucked in.
  - It may cause various accidents, including suffocation, due to the suction of harmful gasses(CO, etc.)
- Do not install this product in a refrigerated warehouse, heated swimming pool or other location where the temperature and humidity are significantly different.
  - There is risk of electrical shock, malfunctioning.

- Install this product in an environment where the temperature ranges from -10 °C to +45 °C and the relative humidity is less than 80 %. Its condensation is expected to form, heat up the fresh outside air using a duct heater etc.
- Take care to ensure that power cable could not be pulled out or damaged during operation.
  - There is risk of fire or electric shock.
- Make the connections securely so that the outside force of the cable may not be applied to the terminals.
  - Inadequate connection and fastening may generate a heat and cause a fire.
- Use the designated electrical wires for the terminal board connections, and connect the wires securely so that they will not become disconnected. (Failure to ensure proper connections may cause fire.)
- When passing metal ducts through wooden buildings clad with metal laths, wire laths or metal, these ducts must be installed in such a way that they will not make electrical contact with the metal laths, wire laths or metal sheets. (Power leakage can cause ignition)

Operation

- When the product is soaked (flooded or submerged), contact an authorized service center.
  - There is risk of fire or eletric shock.
- Don't touch a dedicated circuit or breaker with wet hands.
  - There is risk of electric shock.
- Do not store or use flammable gas or combustibles near the product.
  - There is risk of fire or failure of product.
- 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
- Be cautious that water could not enter the product.
  - There is risk of fire, electric shock, or product damage.
- Turn the breaker off when cleaning or maintaining the product.
  - There is risk of electric shock.
- The outside ducts must be tilted at a gradient (1/30 or more) down toward the outdoor area from the ventilator unit, and properly insulated. (The entry of rain water may cause power leaks, fire or damage to household property.)
- Glove should be worn when doing the installation work. (There is risk of injury.)

⚠ CAUTION

Installation

- Don't connect the ground wire to the window frame or water cock.
  - There is risk of electric shock.
- Do not install the product at a smoky and oily place like kitchen or factory.
  - Otherwise, oil may adhere to the filter or heating exchanger and cause trouble.
- Install the product in an insulated space from outdoor air.
  - In case of installing the product outside of the insulated layer, dewing occurs inside of the main body in winter. And it causes electrical shock or falling of condensed water.
- Keep level even when installing the product.
  - To avoid vibration or water leakage.
- 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.

Operation

- Use a soft cloth to clean. Do not use harsh detergents, wax or thinner, etc.
  - Otherwise, color or surface of the oroduct mav deteriorate.
- Clean the filter and the heat exchanger regularly and use the gloves for cleaning.
  - Adhering to a mass of dust may cause the deterioration of air volume.
- Do not use the product for special purposes, such as preserving foods, works of art, etc. It is a consumer ventilator, 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.
- Do not step on or put anyting on the product.
  - There is risk of personal injury and failure of product.

According to IEC 60335-1

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.

According to EN 60335-1

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 understnd the hazards involved. Children shall not play with the appliance. Cleaning and user maintenance shall not be made by children without supervision.

PRIOR TO OPERATION

Preparing for operation

1 Contact an installation specialist for installation.
2 Plug in the power plug properly.
3 Use a dedicated circuit.
4 Do not use an extension cord.
5 Do not start/stop operation by plugging/unplugging the power cord.
6 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.

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 ventilator for non-specified special purposes (e.g. preserving precision devices, food, pets, plants, and art objects). Such usage could damage the items.

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 ventilator. 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

1 For repair and maintenance, contact your authorized service dealer.
2 The appliance shall be disconnected from its power source during service and when replacing parts

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.

ENGLISH

STANDARDS FOR MODEL

L Z - H 0 5 0 G B A 4

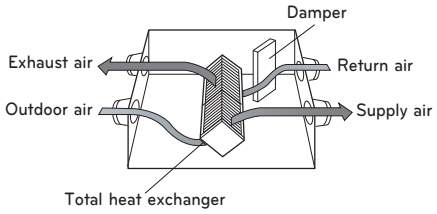
- Development Sequence
- Function
  A: Basic
- Model Type
  B: Ceiling Concealed Type
- Electrical Standard (V, Hz, Ø)
  220-240 V, 50 Hz, 1 ph /
  220 V, 60 Hz, 1 ph
- Capacity
  Ex) 080 ⟶ 800 CMH
  100 ⟶ 1,000 CMH
- Heat Exchange Type
  H: Total Heat Recovery
- Indicates that this is LG's VENTILATION system

CHARACTERISTICS

Ventilation via total heat exchanger

Exhausts indoor air via the total heat exchanger outdoor.

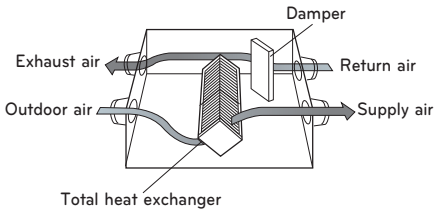
- The outdoor air heat exchanged is supplied to indoor. Operate the ventilator in the ventilation via total heat exchanger in summer/winter when cool/heat operation is done.



Normal ventilation

Exhausts the polluted indoor-air directly without via the total heat exchanger.

- Operate the ventilator in the normal ventilation in spring/autumn when the total heat exchanger is not required.

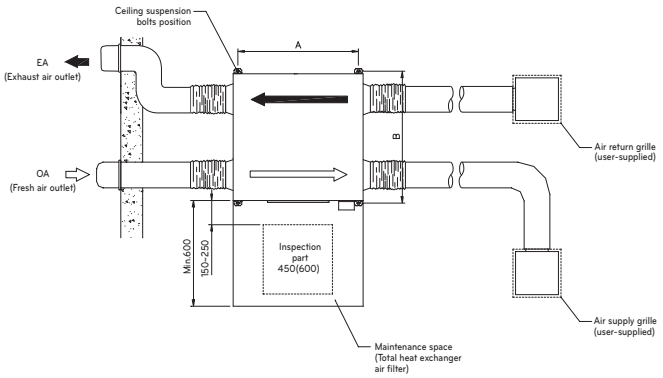


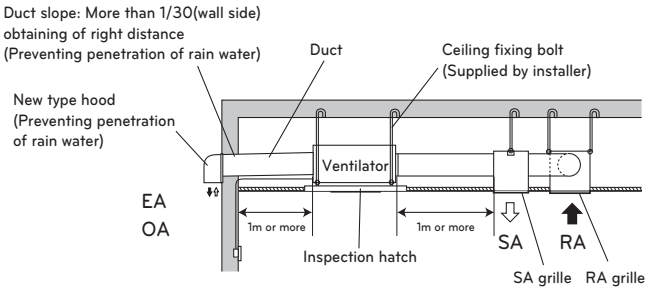
⚠ CAUTION

In case of high outdoor pollution degree like yellow sand please pause the ventilator.

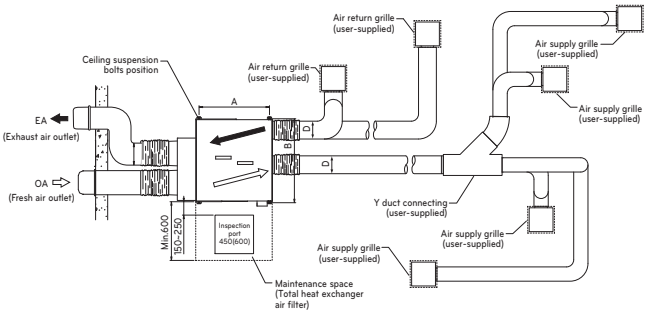
INSTALLATION

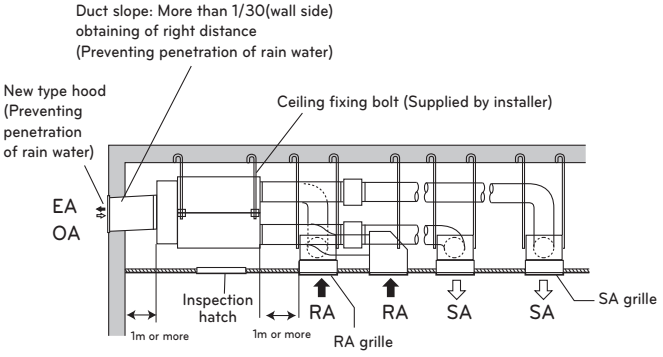
Model No.: LZ-H050GBA2 / LZ-H080GBA2 / LZ-H100GBA2
LZ-H025GBA4 / LZ-H035GBA4 / LZ-H050GBA4
LZ-H080GBA4 / LZ-H100GBA4
LZ-H035GBA5 / LZ-H050GBA5
LZ-H080GBA5 / LZ-H100GBA5





Model No.: LZ-H150GBA2 / LZ-H200GBA2
LZ-H150GBA4 / LZ-H200GBA4
LZ-H150GBA5 / LZ-H200GBA5

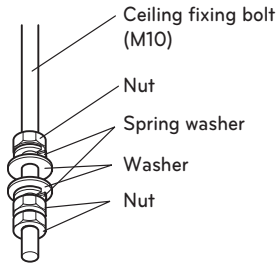




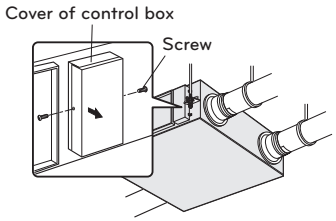
Method to connect power cord

Assembly of washer, nut

Tighten the common washer and nut (more than 21mm for the outside diameter of M10, to the commercial ceiling fixing bolt (M10) as shown in the right figure.
- For the ceiling fixing bolt, perform work less than 50mm under the ceiling fixing bracket.

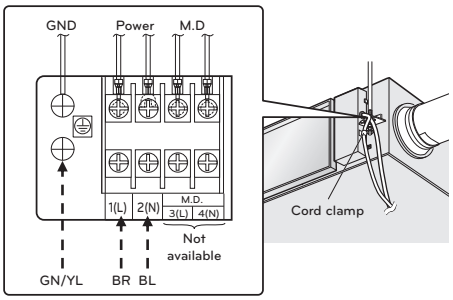


1 Release two screws and then open the cover of the control box.
- With reference to the below wiring diagram, accurately connect the main power cords into the terminal block.



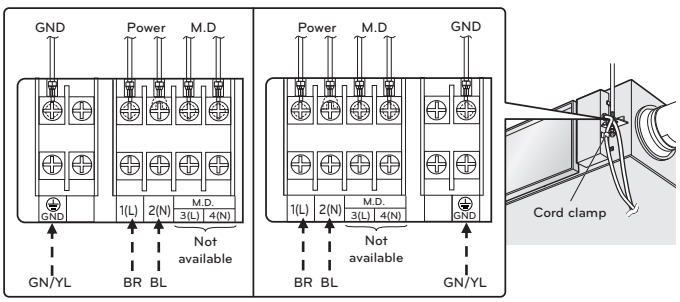
2 After inserting the power cord into the bushing, fully insert it into the terminal block for connection.
- Fix the power cords with the clamp.
- Make sure that the power cords may not be removed by pulling them.

LZ-H050GBA2 / LZ-H080GBA2 / LZ-H100GBA2 / LZ-H150GBA2 / LZ-H200GBA2



LZ-H025GBA4 / LZ-H035GBA4 / LZ-H050GBA4 / LZ-H080GBA4 / LZ-H100GBA4 / LZ-H035GBA5 / LZ-H050GBA5 / LZ-H080GBA5 / LZ-H100GBA5

LZ-H150GBA4 / LZ-H200GBA4 LZ-H150GBA5 / LZ-H200GBA5



⚠ WARNING

This appliance must be properly grounded.

⚠ CAUTION

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

3 Wiring specifications

Wiring specifications	Sheathed wire (should be complied with 60245 IEC 53 standard)
Size	0.75 - 1.25 mm^2
Length	MAX. 100 m
External contact specifications	Normally closed contact (Current tolerance 10 mA - 0.5 A)

Precautions when laying power wiring

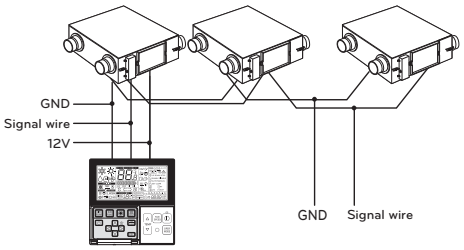
Use round pressure terminals for connections to the power terminal block.



LZ-H050GBA2 LZ-H025GBA4 / LZ-H035GBA4 LZ-H050GBA4 LZ-H035GBA5 / LZ-H050GBA5	LZ-H080GBA2 / LZ-H100GBA2 LZ-H150GBA2 / LZ-H200GBA2 LZ-H080GBA4 / LZ-H100GBA4 LZ-H150GBA4 / LZ-H200GBA4 LZ-H080GBA5 / LZ-H100GBA5 LZ-H150GBA5 / LZ-H200GBA5
250V / 5A	250V / 8A

Group control

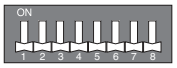
1 When installing more than 2 units of air conditioner to one wired remote controller, please connect as the right figure.
- If it is not event communication indoor unit, set the unit as slave.
- Check for event communication through the product manual.



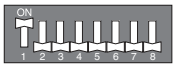
ENGLISH

When controlling multiple indoor units with event communication function with one remote controller, you must change the master/slave setting from the indoor unit.

- Alter the master/slave switch while power stays 'Off' and then turn the power 'On' after one minute from the alteration.
- For ceiling type cassette and duct product group, change the switch setting of the indoor PCB.



#1 switch Off: Master
(Factory default setting)



#1 switch On: Slave

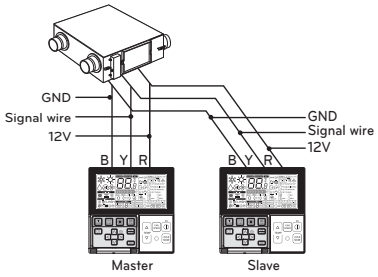
- For wall-mount type and stand type product, change the master/slave setting with the wireless remote controller. (Refer to wireless remote controller manual for detail)

❉ When installing 2 remote controllers to one indoor unit with event communication function, set the master/slave of the remote controller. (Refer to remote controller master/slave selection)

When controlling the group, some functions excluding basic oeration setting, fan level min/mid/max, remote controller lock setting and time setting may be limited.

2 When installing more than 2 wired remote controllers to one air conditioner, please connect as the right picture.

- When installing more than 2 units of wired remote controller to one air conditioner, set one wired remote controller as master and the others all as slaves, as shown in the right picture.
- You cannot control the group as shown in the right for some products.
- Refer to the product manual for more detail.

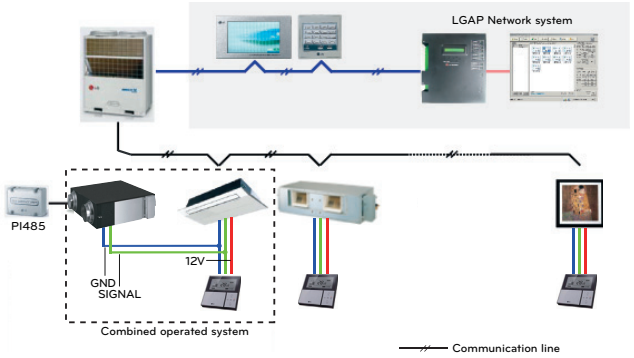


<When simultaneously connecting
2 sets of wired remote controller>

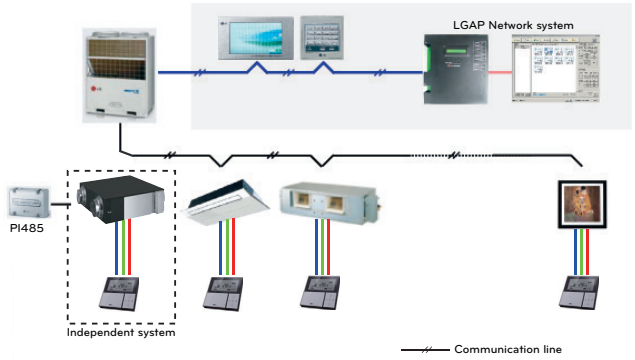
When controlling in groups, set the master/slaver of the remote controller. Refer to Installer setting section on how to set master/slave for more detail.

This unit can be used as part of the combined operation system used together with indoor units(Multi-V system air conditioners), or as an independent system for processing outside air.

Combined operation system with Multi-V system
(connected with ventilation units and standard indoor units in a single refrigerant circuit)

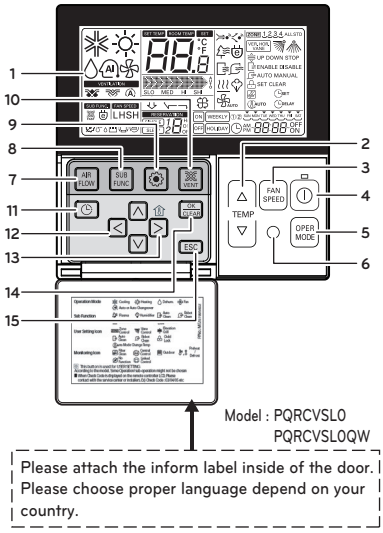


Independent system
(connected only with a ventilation unit in a single refrigerant circuit)



OPERATING INSTRUCTIONS (ACCESSORY)

LCD remote controller

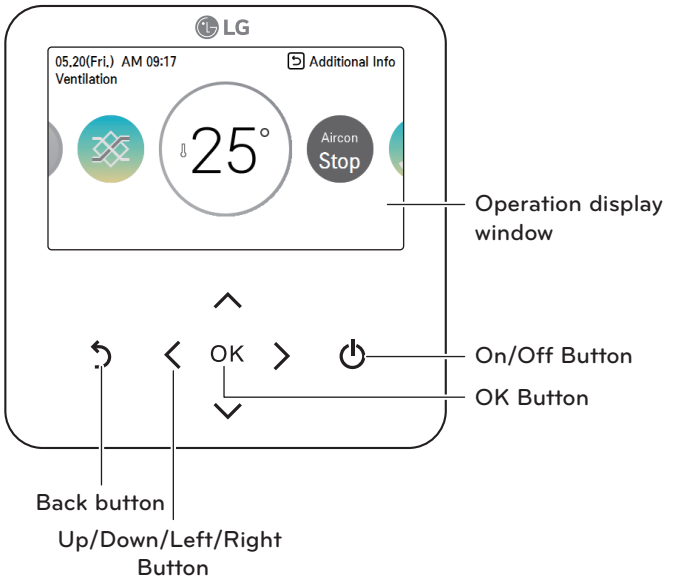


1 OPERATION INDICATION SCREEN
2 SET TEMPERATURE BUTTON
3 FAN SPEED BUTTON
4 ON/OFF BUTTON
5 OPRATION MODE SELECTION BUTTON
6 WIRELESS REMOTE CONTROLLER RECEIVER
- Some products don't receive the wireless signals.

7 AIR FLOW BUTTON
8 SUBFUNCTION BUTTON
9 FUNCTION SETTING BUTTON
10 VENTILATION BUTTON
11 RESERVATION
12 UP, DOWN, LEFT, RIGHT BUTTON
- To check the indoor temperature, press button.

13 ROOM TEMPERATURE BUTTON
14 SETTING/CANCEL BUTTON
15 EXIT BUTTON

✻ Some functions may not be operated and displayed depending on the product type.



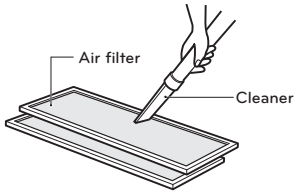
Model: PREMTB100

Operation display window	Operation and Settings status display
Back button	When you move to the previous stage from the menu's setting stage
Up/down/left/right button	When you change the menu's setting value
OK button	When you save the menu's setting value
On/Off button	When you turn ON/OFF the air conditioner

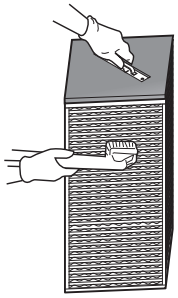
✻ Some functions may not be operated and displayed depending on the product type. Refer to remote controller in order to know detail functions.

Method to clean and replace each part

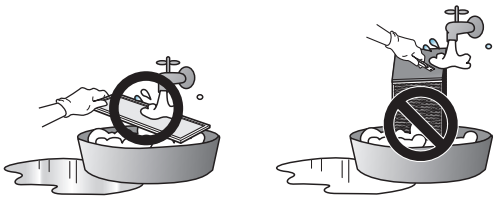
1 Cleaning of air filter
Clean once every 6 months.
- Clean dirt from the air filter using a vacuum cleaner or wash with water. (if dirt is conspicuous, wash with a neutral detergent in lukewarm water)
- After washing with water, dry well in the shade.
(Do not expose the air filter to direct sunlight or heat from a fire when drying it)
- If the air filter is damaged, purchase it from the service center or professional agent.



2 Cleaning of total heat exchanger
Suck dusts adhered to the surface of the total heat exchanger with a cleaner.
- Use the cleaner that attached to brush at its nozzle, and use a soft brush.
- Expenses are for a consideration when you will contact the service center even within 2 years from the purchasing date.



- Do not use a hard nozzle on the cleaner.
(Otherwise, surface of the total heat exchanger may be damaged.)



Air filter Total heat exchnger

- Never wash the total heat exchanger with water.
- Consider replacing after two years from the date of purchase.
- Please inquire to the service center about replacement costs within two years from the date of purchase.
- For service, always contact the dealer or an authorized service center.

Insulation material of supply line shall be at least those of ordinary tough rubber sheathed. (code designation 60245 IEC 53)

Minimum cross-sectional area of conductors

Rated current of appliance A			Nominal cross-sectional area mm^2
		≤0,2	Tinsel cord [a]
>0,2	and	≤3	0,5 [a]
>3	and	≤6	0,75
>6	and	≤10	1,0

* [a] These cords may only be used if their length does not exceed 2 m between the point where the cord or cord guard enters the appliance and the entry to the plug.

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.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