



INSTALLATION MANUAL

VENTILATION SYSTEM

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.

Commercial Ventilation
Original instruction



MFL71995601
Rev.02_042426

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КАЗАК ТІЛІ	СЛОВЕНЧІНА	PORTUGUÊS	ENGLISH
БЕЛАРУСКАЯ МОВА	СЛОВЕНЧІНА	MAGYAR	ITALIANO
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TIPS FOR SAVING ENERGY

Here are some tips that will help you minimize the power consumption when you use the air conditioner.

You can use your air conditioner more efficiently by referring to the instructions below:

- Do not cool excessively indoors. This may be harmful for your health and may consume more electricity.
- Block sunlight with blinds or curtains while you are operating the air conditioner.
- Keep doors and windows closed tightly while you are operating the air conditioner.
- Adjust the direction of the air flow vertically or horizontally to circulate indoor air.
- Speed up the fan to cool or warm indoor air quickly, in a short period of time.
- Clean the air filter once every 2 weeks. Dust and impurities collected in the air filter may block the air flow or weaken the cooling / dehumidifying functions.

For your records

Staple your receipt to this page in case you need it to prove the date of purchase or for warranty purposes.

Write the model number and the serial number here:

Model number : _____

Serial number : _____

You can find them on a label on the side of each unit.

Dealer's name : _____

Date of purchase : _____

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

- 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.
- The fan is to be installed so that the blades are more than 2.3 m above the floor.
- 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 %. It condensation is expected to form, heat up the fresh outside air using a duct heater etc.
- Install this product in and environments where the outside air intake meets the following conditions: temperature range is between -15 °C and +40 °C and the relative humidity is 80 % or less.
- 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.
- Means for disconnection must be incorporated in the fixed wiring in accordance with the wiring rules.

Operation

- When the product is soaked (flooded or submerged), contact an authorized service center.
 - There is risk of fire or electric shock.
- Don't touch a dedicated circuit or breaker with wet hands.
 - 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.
- 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.
- Do not install or use the product in places at risk of explosion.
 - It may cause fire or explosion.
- (Australia only) This product must be installed by a professional installer.
- After the installation of the product in the customer premises, fully remove all product packaging (including any expanded or moulded plastic packaging materials) and recycle or dispose of such packaging responsibly. Do not dispose any expanded plastic packaging in the household bin.

Operation

- Use a soft cloth to clean. Do not use harsh detergents, wax or thinner, etc.
 - Otherwise, color or surface of the product may 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 anything on the product.
 - There is risk of personal injury and failure of product.

TABLE OF CONTENTS

2 TIPS FOR SAVING ENERGY

3 SAFETY INSTRUCTIONS

10 INTRODUCTION

- 10 Standards for Model
- 11 Preparing for operation
- 11 Service
- 11 Precautions for installing a Wi-Fi modem
- 12 Feature Dimension Diagram

14 INSTALLATION

- 14 Installation map
- 16 Installation of main body
- 17 Connection of duct
- 18 Method to connect power cord
- 21 How to connect remote controller(accessory)
- 22 How to use the filter check alarm function by filter clogging
- 23 Group control
- 24 How to connect central control
- 24 How to connect dry contact and PI485 at the same time
- 25 Installer setting - How to enter installer setting mode (Standard II)
- 27 Accessory Model (Standard III)

28 TEST RUNNING

- 30 In case of finding a problem at a test running
- 30 Airborne noise emission

31 ERROR CODE

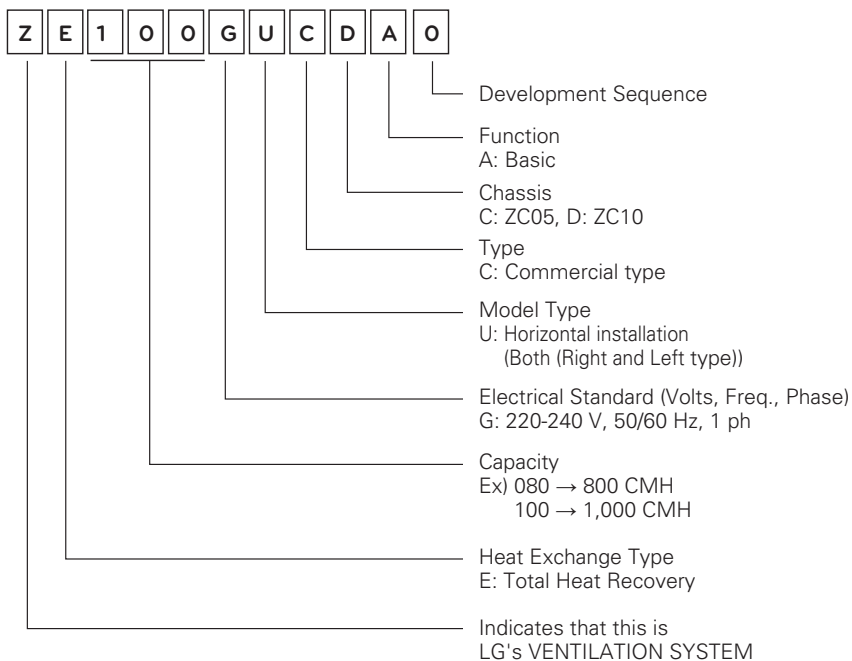
33 MANAGING

- 33 Cleaning and storing

34 BASED ON THE MOTORIZED DAMPER (MD) INSTALLATION

INTRODUCTION

Standards for Model



Preparing for operation

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

Service

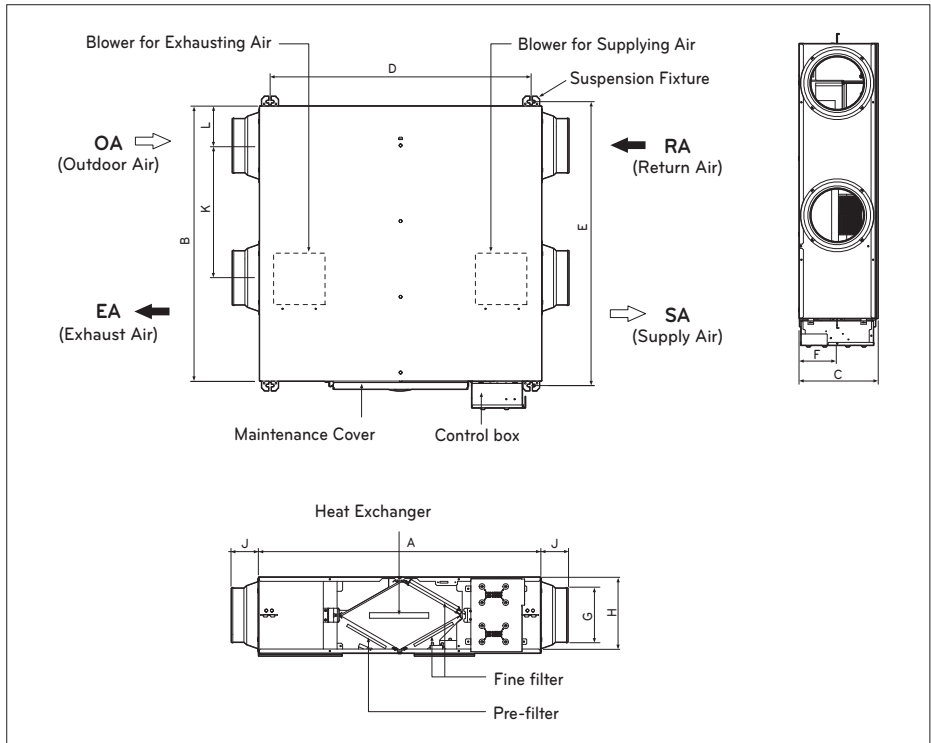
- For repair and maintenance, contact your authorized service dealer.
- The appliance shall be disconnected from its power source during service and when replacing parts

Precautions for installing a Wi-Fi modem

- It should be installed by installation specialist.
- The wireless router must be installed within 10 m.
- Install in a space without EMI interference. It may cause malfunction of the product.
- If there is a wall or obstacle between the Wi-Fi modem and the wireless AP, the communication may not be smooth.
- If it is attached to a steel structure such as an H-beam, steel plate, indoor unit cabinet, etc., the communication may not be smooth.
- Use a 10m extension cable (sold separately) according to the installation situation, but do not connect additionally exceeding 10 m.
- Install in a place 1cm or more away from a metal panel.

Feature Dimension Diagram

■ 500 CMH

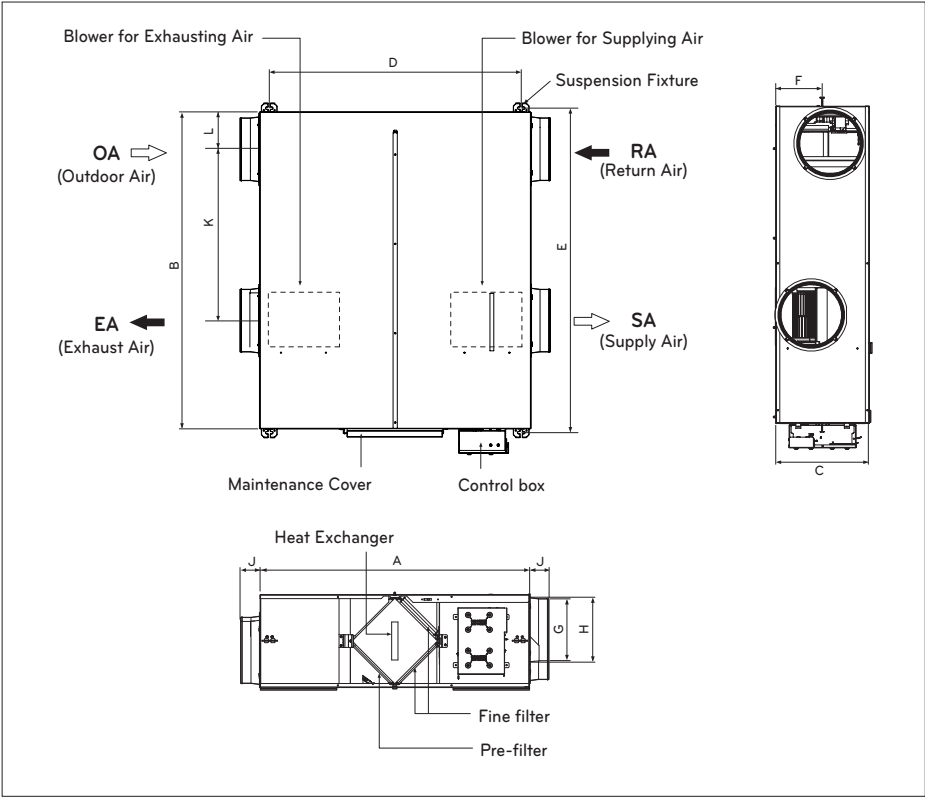


Unit : mm

Capacity	Figure			Pitch of suspension fixture			Nominal diameter	Duct connection flange			Duct pitch		Weight
	A	B	C	D	E	F		G	H	J	K	L	
500 CMH	1 014	988	273	939	1 020	137	200	194	240	99	475	142	41.7

- ※ It is necessary to secure sufficient space for maintenance more than the dimensions described in the product service.
- ※ When installing the product in reverse, take into consideration that the product will be upside down, left and right when viewed from the inspection hole.

■ 800 / 1 000 CMH



Unit : mm

Capacity	Figure			Pitch of suspension fixture			Nominal diameter	Duct connection flange			Duct pitch		Weight kg
	A	B	C	D	E	F		G	H	J	K	L	
800 CMH 1 000 CMH	1 062	1 240	365	987	1 271	183	250	244	254	77	671	146	54.4

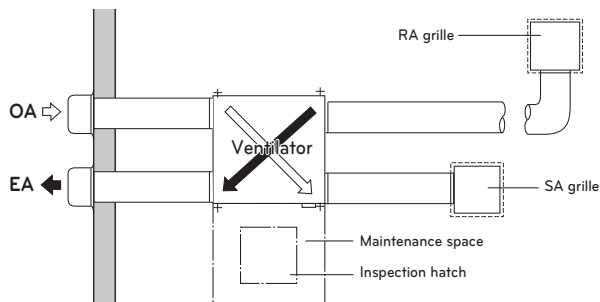
- ※ It necessary to secure sufficient space for maintenance more than the dimensions described in the product service.
- ※ When installing the product in reverse, take into consideration that the product will be upside down, left and right when viewed from the inspection hole.

INSTALLATION

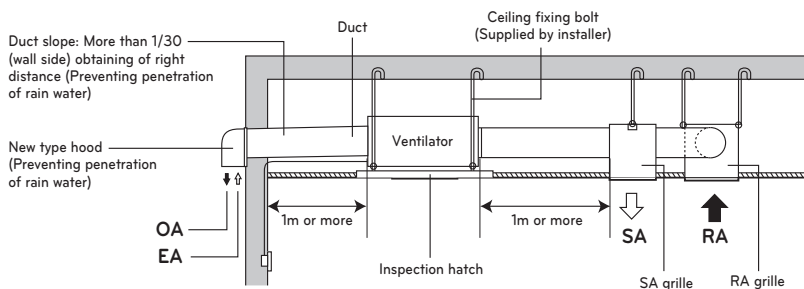
Installation map

■ 500 / 800 / 1 000 CMH

Plane figure

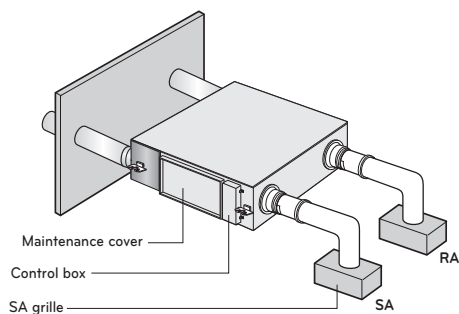


Front view

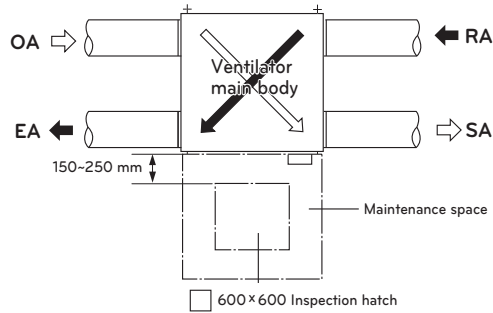


※ If no ceiling finishing is provided, the installation height of the product must be at least 1.8 m.

Three dimension view



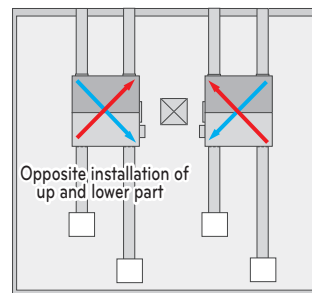
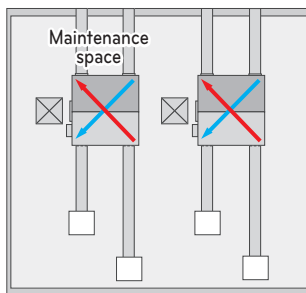
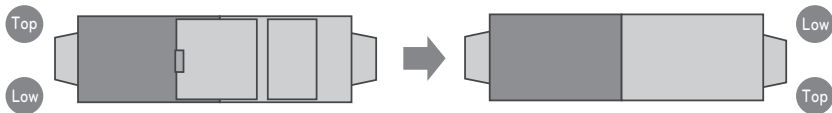
Installation of maintenance cover



Reversible Installation (Top/Bottom)

This unit supports reversible installation (top/bottom).

When installing two units in the same orientation, two maintenance spaces are required. If one unit is installed in a reversed (top/bottom) orientation, only one maintenance space is required. This manual is based on the standard installation orientation. In case of upside-down installation, the airflow direction and maintenance access are reversed.

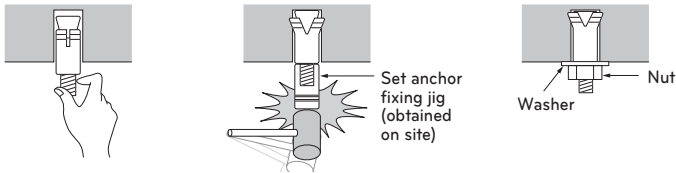


Opposite Installation of up and lower part of one unit

Installation of main body

Assembly of washer, nut

- 1 Determine the location at which to attach ceiling fixing bolts to the ceiling. (Determine the drilling locations by referring to the installation dimensions on the external dimension drawing.)
- 2 Drill four vertical holes 40 mm deep at the location where the ceiling fixing bolts will be attached by using a $\varnothing 14.5$ mm drilling machine. (Install the ceiling bolts firmly so that they can withstand more than 4 times the weight of the product.)
- 3 Insert the set anchors into the 4 ceiling fixing bolt attachment holes, and hit the bottom part of the set anchor fixing jig (obtained on site) with a hammer to firmly fix the set anchors into the ceiling.
- 4 Assemble the ceiling fixing bolt components as shown in the figure.

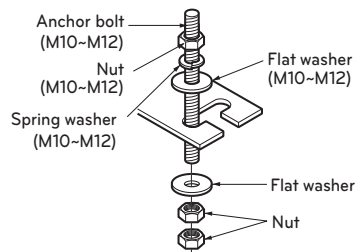


Commercial ceiling fixing bolts (M10 - M12):

As shown in the figure on the left, fasten a nut with an outer diameter of 21 mm or more to a commercial washer M10 and a nut with an outer diameter of 24 mm or more to a commercial washer M12.

NOTE

- Fasten the ceiling fixing bolt no more than 50 mm below the ceiling fixing bracket.
- Regardless of the installation direction, ensure that the washer is placed inside the hanger bracket.
- Purchase the parts below locally.
 - Anchor bolt: M10 ~ M12
 - Nut: M10 ~ M12
 - Spring washer: M10 ~ M12
 - Flat washer: M10 ~ M12



CAUTION

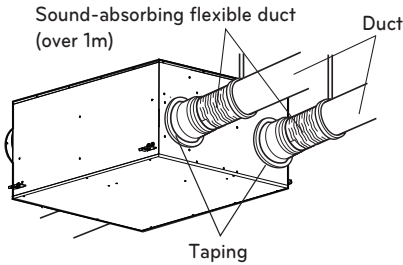
- Firmly tighten the nuts and bolts so that the product will not drop.
- When installing, use a lift to raise the product to prevent it from tilting.
- When installing the product in reverse, take into consideration that the product will be upside down, and left and right reversed when viewed from the check gate.

Connection of duct

After securely connect the duct with the duct connection flange, wrap it with a commercial aluminium tape so that air cannot be leaked.

Adjust the duct from the ceiling so that no force is applied to the main body of the ventilation system.

Always use two ducts at the outdoor with the heat insulating material for prevention of dewing.

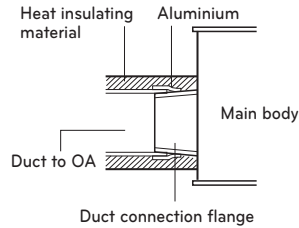


CAUTION

- In -10°C below ambient temperature, when ventilation is installed the equivalent space in the outdoor and indoor, It may cause condensation, you must install drainage facilities (drain pan) and MD(Motorized Damper) at SA/RA duct.

CAUTION

- Check that there are no foreign materials (paper, vinyl, etc) or cutoff powders in the duct before connecting the duct.
- Take care so that shock may not be applied to the damper plate within the main body when performing the duct connection work.
- It is recommended to perform adiabatic treatment even to the duct pipe at the indoor side where ambient temperature is expected higher than room temperature when the main body of the ventilation system for cooling in summer.
- Take care so that work may not be performed as in the figure. Otherwise, it may cause reduction of air volume or abnormal noise.



Rapid bending



Excessive bending



Too close bending to outlet

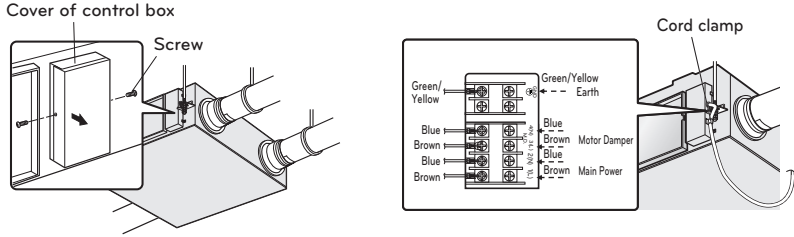


Rapid reduction of duct diameter

Method to connect power cord

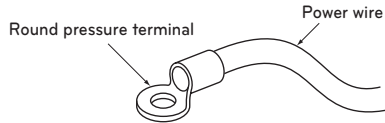
Release two screws and then open the cover of the control box

- With reference to the below wiring diagram, accurately connect the main power cords into the terminal block.
- When installing in reverse, the wiring diagram is upside down, with left and right reversed, so take this into consideration when connecting the power cords.



Precautions when laying power wiring

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



CAUTION

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



WARNING

- Indoor unit ground wires are required for preventing electrical shock accident during current leakage, Communication disorder by noise effect and motor current leakage (without connection to pipe).

Precautions

1. Follow the code established by technical standard governmental agencies and the guidelines of electrical companies with respect to the regulations for electrical facilities and electrical lines.



WARNING

- Electrical work using special circuits should be done by a qualified electrical technician in accordance with the relevant regulations and this installation manual.
Lack of capacity of the power supply circuit or any defect may cause electric shocks or a fire.
2. The power cords and communication lines must be separated to prevent the communication lines from being affected by electrical noise from power cords.
(Do not let them pass through the same conduit.)
 3. Make sure to apply the specified grounding when installing the product.



WARNING

- Be sure to apply grounding. Do not connect the ground wire to the gas pipe, water pipe, lightning rod or other ground wire for landlines.
Inappropriate grounding may cause electric shocks.
4. Never connect the mains power to the terminal block of the communication line. Electrical components will burn out if connected incorrectly.
 5. Use a 2-line shielded cable as a communication line.
If one shielded cable is connected to the other system, the receiving and sending of communications will deteriorate and abnormal operation will occur.



WARNING

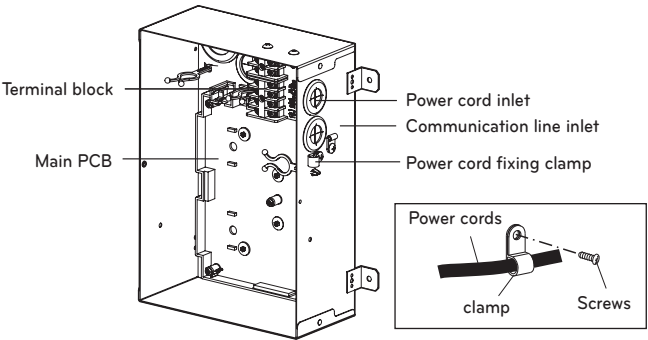
- Use a 2-line shielded cable.
- Make sure that wires are not parallel to the power line.
- Do not use a multi-line.

Wiring specifications

Capacity	Phase	H07RN-F, [mm ²] × cores
250~1 000 CMH	1	2.5 x 3C
1 500~2 000 CMH		

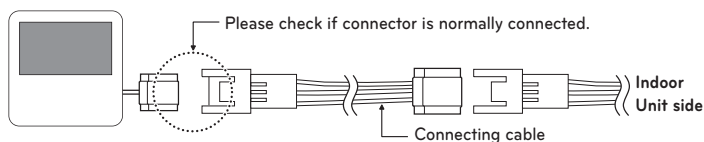
After inserting the power cords into the bushing, insert them sufficiently into the terminal block and connect them.

- Secure the power cords with a cord clamp.
- Make sure that the power cords do not come off when you pull them.



How to connect remote controller(accessory)

Please connect indoor unit and remote controller using connection cable.



Please use extension cable if the distance between wired remote controller and indoor unit is more than 10 m. (PZCWRC1)

⚠ CAUTION

When installing the wired remote controller, do not bury it in the wall. (It can cause damage in the temperature sensor.)

Do not install the cable to be 50 m or above. (It can cause communication error.)

- When installing the extension cable, check the connecting direction of the connector of the remote controller side and the product side for correct installation.
- If you install the extension cable in the opposite direction, the connector will not be connected.
- Specification of extension cable: 2547 1007 22# 2 core 3 shield 5 or above.

⚠ WARNING

- Be sure to turn off the power before proceeding with accessory wiring.

How to use the filter check alarm function by filter clogging

■ 500 / 800 / 1 000 CMH

- To enable the filter check alarm function, you must set "test run" in the installer settings on the remote control.
- After the test run is finished, the product will turn off.
- During the test run, the remote control will not turn off the power.
- Noise caused by operation mode change during test run may occur, but this is not a product error.
- Check filter contamination before test run operation.
- Except for rated voltage(220~240 V), it can be detected incorrectly.
- It may be affected by the external environment, but this is not a product error.



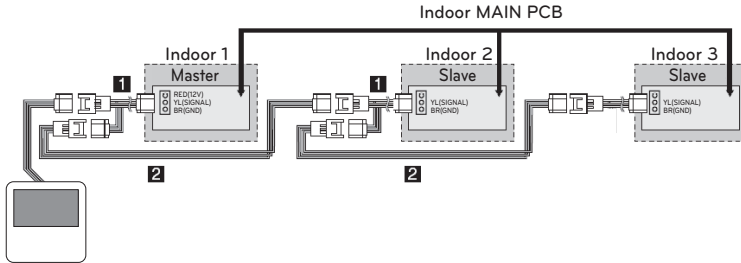
CAUTION

- If the test run function is not used, the filter check alarm function can not be used.
 - After T.A.B and filter and PCB replacement, test run must be performed.
-
- Some categories of the menu may not be displayed according to the function of the product, or the menu name may be different.
 - For more details, refer to the remote controller manual.

Group control

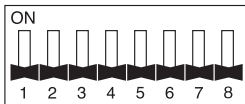
When installing more than 2 units of air conditioner to one wired remote controller, please connect as the figure.

- If it is not event communication indoor unit, set the unit as slave.
- Check for event communication through the product manual.

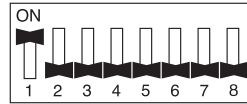


When controlling multiple indoor units with event communication function with one remote controller, you must change the master/slave setting from the indoor unit.

- Indoor units, the master/slave configuration of the product after completion of indoor unit power 'Off' and then 'On' the power after 1 minutes elapsed sign up.
- For ceiling type cassette and duct product group, change the switch setting of the indoor PCB.
- 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)



#1 switch Off: Master
(Factory default setting)



#1 switch On: Slave

WARNING

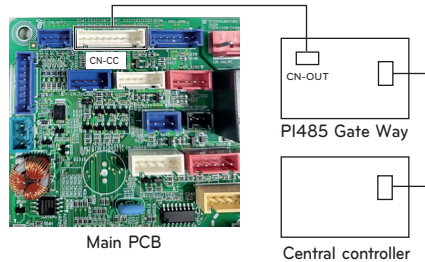
- When installing 2 remote controllers to one indoor unit with event communication function, set the master/slave of the remote controller. (Refer to remote controller master/slave selection)
- When controlling the group, some functions excluding basic operation setting, fan level min/mid/max, remote controller lock setting and time setting may be limited.
- Grounding is necessary to prevent electric shocks, communication failures due to noise effects, and motor current leakage.

CAUTION

- If you change the option switch, you must re-authorize the power.
- Only the OP1 switch of the master PCB that communicates with the wired remote controller should be set to 'Off' and the rest should be set to 'On' to prevent errors.

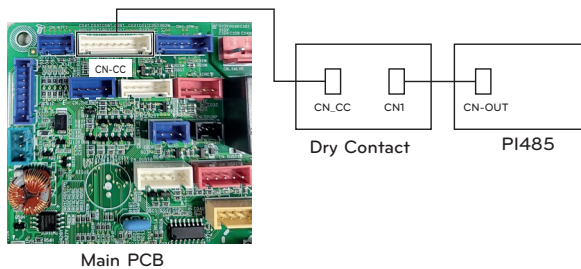
How to connect central control

- 1 Connect the PI485 Gate Way (CN-OUT) and the main PCB (CN-CC).
- 2 When connecting the central controller, the option switch setting for the main PCB is not necessary.
- 3 When connecting the central controller, set the option switches 'oP3' and 'oP4' of the PI485 to ON.



How to connect dry contact and PI485 at the same time

- 1 Connect the main PCB (CN_CC) and the dry contact (CN_CC).
- 2 Connect the PI485 (CN-OUT) and the dry contact (CN1).



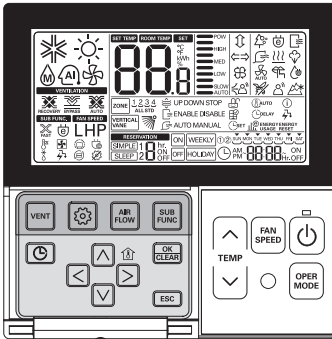
- The relevant content applies when the dry contact and the PI485 are purchased separately.
- Dome dry contact models cannot be connected at the same time.
- For more information, refer to the printout included with the separately sold items.

Installer setting - How to enter installer setting mode (Standard II)

CAUTION

Installer setting mode is to set the detail function of the remote controller. If the installer setting mode is not set correctly, it can cause problems to the product, user injury or property damage.

This must be set by an certificated installer, and any installation or change that is carried out by a non-certificated person should be responsible for the results. In this case, free service cannot be provided.



1 If pressing  button long for 3 seconds, it enters into remote controller setter setup mode.

- If pressing once shortly, it enters into user setup mode. Please press more than 3 seconds for sure.

2 When you enter the setting mode initially, Function code is displayed on the bottom of the LCD screen.


 Function code Value

- Some categories of the menu may not be displayed according to the function of the product, or the menu name may be different.

Installer setting code table

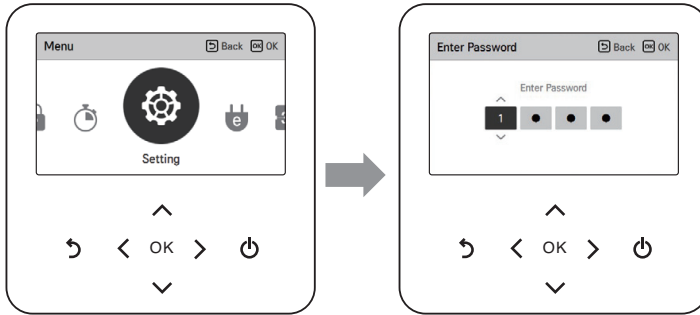
General ventilation product

No.	Function	Code	Value
1	Test run	01	01 : Test run setup
2	Address setting	02	00~FF : Address of central control
3	SA(Supply Air) ESP	03	<ESP level> <ESP value> <Example> 01 : Low 02 : High 03 : Super high 0~255 0301 Function Code ESP step 15₅ ESP value
4	EA(Exhaust Air) ESP	04	
5	Product direction	05	01 : Normal 02 : Opposite
6	Quick refresh priority	06	01 : Supply air first 02 : Exhaust air first
7	Master setting	07	00 : Slave 01 : Master
8	Dry contact	09	00 : Auto-off 01 : Auto-on
9	Release of 3 minute delay	10	01 : Set
10	Zone state test run	11	01 : Variable 02 : Fixed

※ Some contents may not be displayed depending on the product function

Accessory Model (Standard III)

- In the menu screen, press [←,→(left/right)] button to select the setting category, and press [↑(up)] button for 3 seconds to enter the password input screen for the installer setting.
- Input the password and press [OK] button to move to the installer setting list.



※ Installer setting password

Main screen → menu → setting → service → RMC version information → SW Version

Example) SW version : 1.00.1 a

In the above case, the password is 1001.

- Some categories of the menu may not be displayed according to the function of the product, or the menu name may be different.
- For more details, refer to the remote controller manual.

⚠ CAUTION

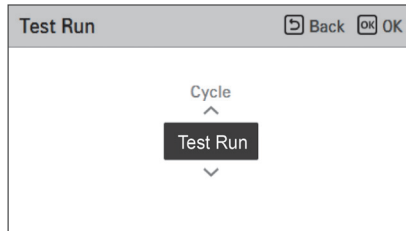
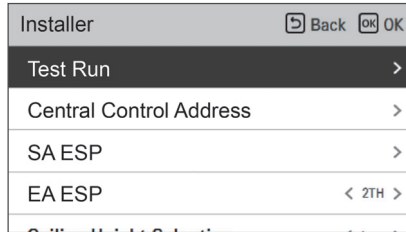
- The installer setting mode is a mode for setting detailed functions of the remote controller.
- Setting the installer setting mode incorrectly may cause product failure, injury to the user, or property damage.
- It should be set only by an installation expert who holds an installation license. Any problems that arise when installing or modifying arbitrarily by a person without an installation license are the responsibility of the installer, and in such cases, LGE does not provide free service.

TEST RUNNING

Use the Standard III remote control for test running.

Wired remote controller – Standard III

- In the installer setting list, select the test operation setting item and press the [OK] button to move to the detail screen.



If there is a problem during the test operation

Symptom	Action to be taken
When the product does not operate even if you press the Run switch	• Check power (designated power single-phase 220 V, wire diameter Ø0.6 - Ø2.0, switch capacity) • Check whether the fuse is disconnected. • Check the wiring between the PCB and the remote controller.
When the fan operation is not available	• Check whether the outdoor temperature is extreme (-10 °C or lower, +45 °C or higher). (Only the exhaust fan operates) • If the temperature is extreme, turn on option No. 5 switch on the PCB, reset the power to check operation, turn off the switch, and reset the power again. • Check if the motor connector is fully inserted.

Filter replacement alarm

- To use the filter check alarm function, you should run “Test operation setting” in the installer settings of the remote controller.
- When the test operation is finished, the product turns off.
- Do not turn off the remote controller during the test operation.
- Noise may occur due to a change in the operating mode during the test operation, but this is not a product error.
- Check for filter contamination before performing a test operation.
- It may be detected incorrectly within the ranges other than the rated voltage (220-240V).
- It may be affected by the external environment, but it is not a product error.



WARNING

- The filter replacement alarm function cannot be used if you do not use the test operation function.
- A test operation must be performed after replacing the T.A.B, filter, and PCB.



CAUTION

- Some menus may not be displayed depending on the function of the product, and the names of the menus may vary.
- For further details, refer to the remote controller manual.

In case of finding a problem at a test running

Symptom	Check item	Counter-measure
The product doesn't work	Is power not supplied?	Supply power
The product doesn't work through you press the 'On' switch	Is air filter, total heat exchanger clogged severely?	Follow cleaning and changing method.
	Are the PCB and remote controller rightly connected?	Connect rightly PCB and remote controller.
The fan doesn't run	Is the outdoor temperature the limit temperature? (Less than -10 °C (14 °F), more than 45 °C (113 °F))	Switch on Option No. 5. Repower the product and check whether it works or not. Switch off Option No. 5. and repower the product once again.

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.

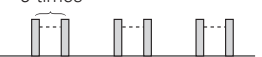
The figures quoted are emission level and are not necessarily safe working levels. Whilst there is a correlation between the emission and exposure levels, this cannot be used reliably to determine whether or not further precautions are required.

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.

ERROR CODE

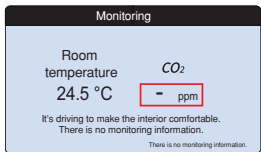
The failure details are indicated by checking number indicated on air conditioner interlocking controller or on wired remote controller(LCD-TYPE) and the number of on-and-off(flickering) in LED(red color) on the circuit plate.

Error code	Details display (operation LED / main body display)	Wired remote controller LCD display(screen)	Loading status
CH1	Indoor thermistor Open/Short (LED 1) 	CH1	Turn operation off
CH2	Outdoor thermistor Open/Short (LED 1) 	CH2	Turn operation off
CH3	Remote controller communication error (LED 1) 	CH3	Turn operation off
CH9	Indoor unit EEPROM error (LED 1) 	CH9	Turn operation off
CH10	Supply and exhaust motor fan do not operation (LED 2) 	CH10	Turn operation off

Error codes and LED display table for using Remote controller (Table 1)

Checking No.	Details	Possible Causes	Necessary actions
CH1	Errors related to indoor thermistor	Connector failure related to thermistor	Check the connection of circuit connector and lead line connecting connector
CH2	Errors related to outdoor thermistor	Connector failure related to thermistor	Check the connection of circuit connector and lead line connecting connector
CH3	Remote controller communication errors	- Several transmission lines wired as multicables - Transmission lines in too close vicinity to power line - Connecting failure of transmission line - Longer wiring length of transmission line than prescribed (more than 50m)	- With electric wires, place each transmission line at intervals. - Wire the transmission line and power line at more than 50mm intervals. - Check the connection of transmission line. - Check the wiring length of transmission line.
CH9	Indoor unit EEPROM error	- Error developed in transmission between the microprocessor and the EEPROM. - ERROR due to the EEPROM damage.	- Reassembly the indoor unit Option PCB. - Replace the indoor unit PCB (Option PCB)
CH10	Error related to supply and exhaust fan	Connector failure related to motor	Check the connection of circuit connector and lead line connecting connector

Error icons displayed on the remote control and measures to take (Table 2)

Type	Displaed Icons	Possible Causes	Counter-measure
CO ₂ sensor	 ※ If the CO₂ concentration is displayed as “-” as shown in the picture	- Bad connection related to CO₂ sensor - CO₂ sensor failure	- Turn off the main power. - Reconnect the intermediate connectors, turn on the power, and check the error icon. (Turn on the remote control, wait 30 minutes, and check the icon.) - If the same error code appears even after reconnecting all connectors, replace the CO₂ sensor.

MANAGING

Cleaning and storing

Filters and parts cleaning frequency

It is necessary to separate and maintain filters or parts from the product at regular intervals.

Part name	Washing with water	Cleaning cycle
Pre-filter	O	3 months
Fine filters	X	6 months
Total heat exchanger element	X	1 year

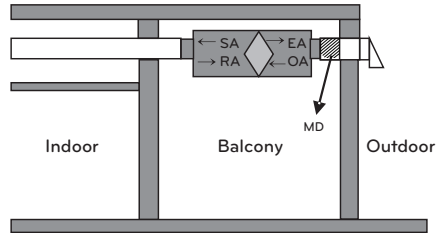


CAUTION

- Do not replace the filters and total heat exchanger element arbitrarily.
- Do not open the inspection door as it should be done by a service technician.

BASED ON THE MOTORIZED DAMPER (MD) INSTALLATION

- Installed at the entrance of the outdoor duct (OA & EA) ventilation device



NOTE

Outdoor temperature conditions for normal product operation: -10 °C to 40 °C

- If the temperature is outside the operating range of the product, there is a risk of condensation occurring inside the ventilation device.
- Do not install it in a humid place such as a bathroom.
- Install MD (Motorized Damper) to prevent external air inflow.
- Do not operate the ventilation system during rain or strong winds as water may flow into the indoors.



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Eco design requirement

- The information for Eco design is available on the following free access website.
<https://www.lg.com/global/support/cedoc/cedoc>