



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.

CEILING CASSETTE

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 or 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.
- Open windows regularly for ventilation as the indoor air quality may deteriorate if the air conditioner is used for many hours.
- 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 symbols are displayed on indoor and outdoor units.

	Read the precautions in this manual carefully before operating the unit.		This appliance is filled with flammable refrigerant. (for R32)
	This symbol indicates that the Operation Manual should be read carefully.		This symbol indicates that a service personnel should be handling this equipment with reference to the Installation Manual.

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.
- 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.
- Compliance with national gas regulations shall be observed.
- Ducts connected to an appliance shall not contain an ignition source. (for R32)
- Any person who is involved with working on or breaking into a refrigerant circuit should hold a current valid certificate from an industry-accredited assessment authority, which authorizes their competence to handle refrigerants safely in accordance with an industry recognized assessment specification. (for R32)

4 SAFETY INSTRUCTIONS

- Servicing shall only be performed as recommended by the equipment manufacturer. Maintenance and repair requiring the assistance of other skilled personnel shall be carried out under the supervision of the person competent in the use of flammable refrigerants. (for R32)
- Keep any required ventilation openings clear of obstruction.

Installation

- Always perform grounding.
 - Otherwise, it may cause electrical shock.
- Don't use a power cord, a plug or a loose socket which is damaged.
 - Otherwise, it may cause a fire or electrical shock.
- For installation of the product, always contact the service center or a professional installation agency.
 - Otherwise, it may cause a fire, electrical shock, explosion or injury.
- Securely attach the electrical part cover to the indoor unit and the service panel to the outdoor unit.
 - If the electrical part cover of the indoor unit and the service panel of the outdoor unit are not attached securely, it could result in a fire or electric shock due to dust, water, etc.
- Always install an air leakage breaker and a dedicated switching board.
 - No installation may cause a fire and electrical shock.
- Do not keep or use flammable gases or combustibles near the air conditioner.
 - Otherwise, it may cause a fire or the failure of product.
- Ensure that an installation frame of the outdoor unit is not damaged due to use for a long time.
 - It may cause injury or an accident.
- Do not disassemble or repair the product randomly.
 - It will cause a fire or electrical shock.
- Do not install the product at a place that there is concern of falling down.
 - Otherwise, it may result in personal injury.
- Use caution when unpacking and installing.
 - Sharp edges may cause injury.
- Do not turn on the breaker or power under condition that front panel, cabinet, top cover, control box cover are removed or opened.
 - Otherwise, it may cause fire, electric shock, explosion or death.
- The appliance shall be stored in a room without continuously operating open flames (for example an operating gas appliance) and ignition sources (for example an operating electric heater).
- Mechanical connections shall be accessible for maintenance purposes.(for R32)
- A brazed, welded, or mechanical connection shall be made before opening the valves to permit refrigerant to flow between the refrigerating system parts.

Operation

- Do not share the outlet with other appliances.
 - It will cause an electric shock or a fire due to heat generation.
- Do not use the damaged power cord.
 - Otherwise, it may cause a fire or electrical shock.
- Do not modify or extend the power cord randomly.
 - Otherwise, it may cause a fire or electrical shock.
- Take care so that the power cord may not be pulled during operation.
 - Otherwise, it may cause a fire or electrical shock.
- Unplug the unit if strange sounds, smell, or smoke comes from it.
 - Otherwise, it may cause electrical shock or a fire.
- Keep the flames away.
 - Otherwise, it may cause a fire.
- Take the power plug out if necessary, holding the head of the plug and do not touch it with wet hands.
 - Otherwise, it may cause a fire or electrical shock.
- Do not use the power cord near the heating tools.
 - Otherwise, it may cause a fire and electrical shock.
- Do not open the suction inlet of the indoor/outdoor unit during operation.
 - Otherwise, it may electrical shock and failure.
- Do not allow water to run into electrical parts.
 - Otherwise, it may cause the failure of machine or electrical shock.
- Hold the plug by the head when taking it out.
 - It may cause electric shock and damage.
- Never touch the metal parts of the unit when removing the filter.
 - They are sharp and may cause injury.
- Do not step on the indoor/outdoor unit and do not put anything on it.
 - It may cause an injury through dropping of the unit or falling down.
- Do not place a heavy object on the power cord.
 - Otherwise, it may cause a fire or electrical shock.
- When the product is submerged into water, always contact the service center.
 - Otherwise, it may cause a fire or electrical shock.
- Take care so that children may not step on the outdoor unit.
 - Otherwise, children may be seriously injured due to falling down.
- When mechanical connectors are reused indoors, sealing parts shall be renewed.
- When flared joints are reused indoors, the flare part shall be re-fabricated.
- Do not use means to accelerate the defrosting process or to clean, other than those recommended by the manufacturer. (for R32)

- Do not pierce or burn. (for R32)
- Be aware that refrigerants may not contain an odour. (for R32)

CAUTION

Installation

- Install the drain hose to ensure that drain can be securely done.
 - Otherwise, it may cause water leakage.
- Install the product so that the noise or hot wind from the outdoor unit may not cause any damage to the neighbors.
 - Otherwise, it may cause dispute with the neighbors.
- Always inspect gas leakage after the installation and repair of product.
 - Otherwise, it may cause the failure of product.
- Keep level parallel in installing the product.
 - Otherwise, it may cause vibration or water leakage.
- Means for disconnection must be incorporated in the fixed wiring in accordance with the wiring rules.
- Do not install the unit in potentially explosive atmospheres.
- Refrigerant tubing shall be protected or enclosed to avoid damage.
- The installation of pipe-work shall be kept to a minimum
- Controls intended to be adjusted during installation or in normal use shall be provided with an indication for the direction of adjustment. (Note : An indication of + and – is considered to be sufficient.)
- Pipe-work shall be protected from physical damage.
- The appliance shall be stored so as to prevent mechanical damage from occurring.

Operation

- Avoid excessive cooling and perform ventilation sometimes.
 - Otherwise, it may do harm to your health.
- Use a soft cloth to clean. Do not use wax, thinner, or a strong detergent.
 - The appearance of the air conditioner may deteriorate, change color, or develop surface flaws.
- Do not use an appliance for special purposes such as preserving animals vegetables, precision machine, or art articles.
 - Otherwise, it may damage your properties.
- Do not place obstacles around the flow inlet or outlet.
 - Otherwise, it may cause the failure of appliance or an accident.

- 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.
- Periodic (more than once/year) cleaning of the dust or salt particles stuck on the heat exchanger by using water.
- Dismantling the unit, treatment of the refrigerant oil and eventual parts should be done in accordance with local and national standards.
- 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.
- Means for disconnection must be incorporated in the fixed wiring in accordance with the wiring rules.
- Unless it is obviously unnecessary, switches which may give rise to a hazard when operated shall be marked or placed so as to indicate clearly which part of the appliance they control. Indications used for this purpose shall, wherever practicable, be comprehensible without a knowledge of languages or national standards.
- The different positions of switches on stationary appliances and the different positions of controls on all appliances shall be indicated by figures, letters or other visual means. This requirement also applies to switches which are part of a control. If figures are used for indicating the different positions, the off position shall be indicated by the figure 0 and the position for a higher value, such as output, input, speed or cooling effect, shall be indicated by a higher figure. The figure 0 shall not be used for any other indication unless it is positioned and associated with other numbers so that it does not give rise to confusion with the indication of the off position. (NOTE For example, figure 0 may be used on a digital programming keyboard.)
- Servicing shall be performed only as recommended by the manufacturer.

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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.

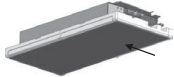
The basic installation for the round type should be in an exposed area.
Do not install at a non exposed installation site such as areas with ceiling texture.

* Please use an annexed sheet or the corrugated cardboard on the bottom of packing as installation sheet.



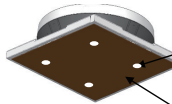
Annexed sheet

Or



Packing corrugated cardboard on the bottom

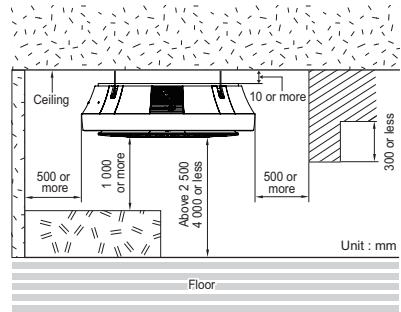
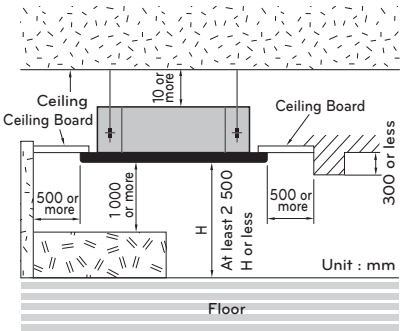
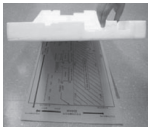
Or



Hanging bolt location

Packing corrugated cardboard on the bottom

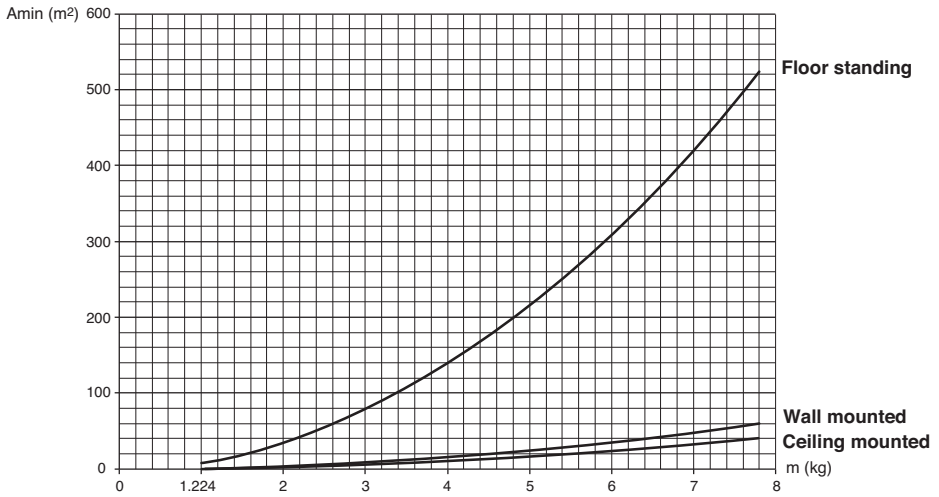
* When using the bottom sheet, please use it after separating the installation sheet from packing of the product floor by using a knife etc as a picture below.



Chassis	H
TU/TT	3 300
TQ/TR/TP/TP-B/TY	3 600
TN/TM/TM-A	4 200

Minimum floor area (For R32)

- The appliance shall be installed, operated and stored in a room with a floor area larger than the minimum area.
- Use the graph or table to determine the minimum area.



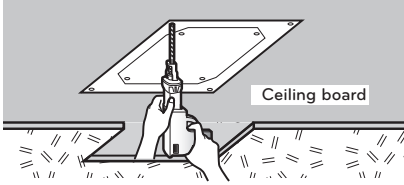
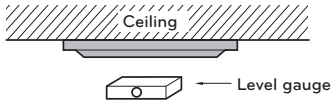
- m : Total refrigerant amount in the system
- Total refrigerant amount : factory refrigerant charge + additional refrigerant amount
- Amin : minimum area for installation

Floor standing		Floor standing	
m (kg)	Amin (m ²)	m (kg)	Amin (m ²)
< 1.224	-	4.6	181.56
1.224	12.9	4.8	197.70
1.4	16.82	5	214.51
1.6	21.97	5.2	232.02
1.8	27.80	5.4	250.21
2	34.32	5.6	269.09
2.2	41.53	5.8	288.65
2.4	49.42	6	308.90
2.6	58.00	6.2	329.84
2.8	67.27	6.4	351.46
3	77.22	6.6	373.77
3.2	87.86	6.8	396.76
3.4	99.19	7	420.45
3.6	111.20	7.2	444.81
3.8	123.90	7.4	469.87
4	137.29	7.6	495.61
4.2	151.36	7.8	522.04
4.4	166.12		

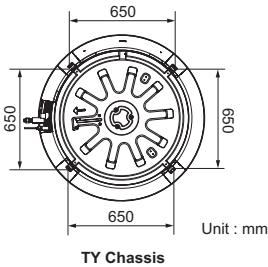
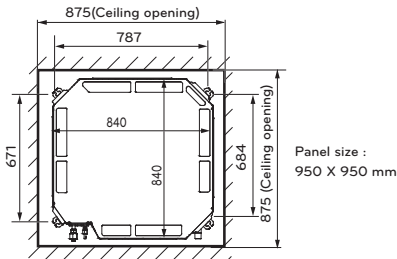
Wall mounted		Wall mounted	
m (kg)	Amin (m ²)	m (kg)	Amin (m ²)
< 1.224	-	4.6	20.17
1.224	1.43	4.8	21.97
1.4	1.87	5	23.83
1.6	2.44	5.2	25.78
1.8	3.09	5.4	27.80
2	3.81	5.6	29.90
2.2	4.61	5.8	32.07
2.4	5.49	6	34.32
2.6	6.44	6.2	36.65
2.8	7.47	6.4	39.05
3	8.58	6.6	41.53
3.2	9.76	6.8	44.08
3.4	11.02	7	46.72
3.6	12.36	7.2	49.42
3.8	13.77	7.4	52.21
4	15.25	7.6	55.07
4.2	16.82	7.8	58.00
4.4	18.46		

Ceiling Mounted		Ceiling Mounted	
m (kg)	Amin (m ²)	m (kg)	Amin (m ²)
< 1.224	-	4.6	13.50
1.224	0.956	4.8	14.70
1.4	1.25	5	15.96
1.6	1.63	5.2	17.26
1.8	2.07	5.4	18.61
2	2.55	5.6	20.01
2.2	3.09	5.8	21.47
2.4	3.68	6	22.98
2.6	4.31	6.2	24.53
2.8	5.00	6.4	26.14
3	5.74	6.6	27.80
3.2	6.54	6.8	29.51
3.4	7.38	7	31.27
3.6	8.27	7.2	33.09
3.8	9.22	7.4	34.95
4	10.21	7.6	36.86
4.2	11.26	7.8	38.83
4.4	12.36		

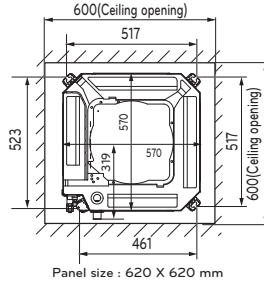
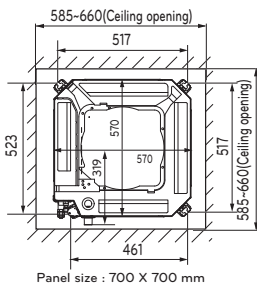
THE INDOOR UNIT INSTALLATION



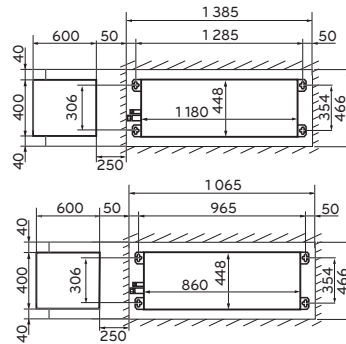
[TN/TM/TP/TM-A/TY Chassis] (Unit : mm)



[TQ/TR Chassis] (Unit : mm)



[TT/TU Chassis] (Unit : mm)



- Select and mark the position for fixing bolts and piping hole.
- Decide the position for fixing bolts slightly tilted to the drain direction after considering the direction of drain hose.
- Drill the hole for anchor bolt on the wall.

⚠ CAUTION

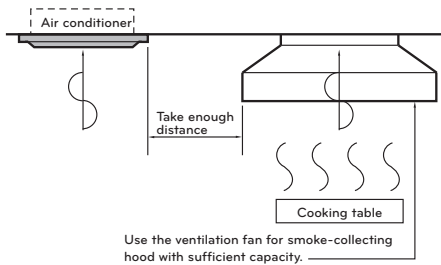
- This air-conditioner uses a drain pump.
- Install the unit horizontally using a level gauge.
- During the installation, care should be taken not to damage electric wires.

! NOTE

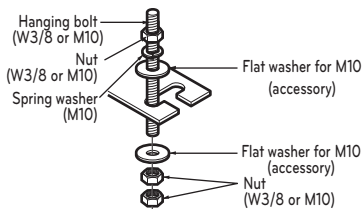
Avoid the following installation location.

- Such places as restaurants and kitchen where considerable amount of oil steam and flour is generated. These may cause heat exchange efficiency reduction, or water drops, drain pump mal-function. In these cases, take the following actions;

- Make sure that ventilation fan is enough to cover all noxious gases from this place.
- Ensure enough distance from the cooking room to install the air conditioner in such a place where it may not suck oily steam.



- Avoid installing air conditioner in such places where cooking oil or iron powder is generated.
- Avoid places where inflammable gas is generated.
- Avoid place where noxious gas is generated.
- Avoid places near high frequency generators.

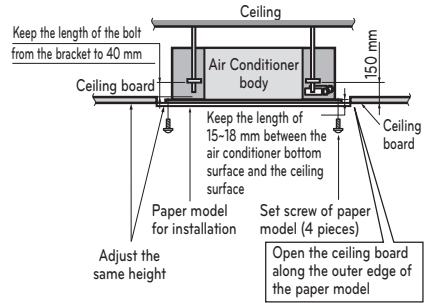


The following parts is option.

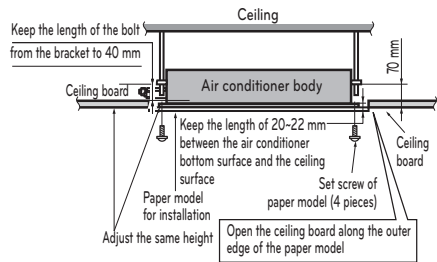
- ① Hanging Bolt - W 3/8 or M10
- ② Nut - W 3/8 or M10
- ③ Spring Washer - M10
- ④ Plate Washer - M10

Drill the piping hole on the wall slightly tilted to the outdoor side using a $\varnothing 70$ hole-core drill.

<Type : 4-Way>

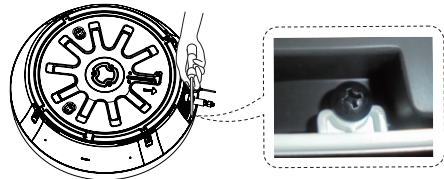


<Type : 1-Way>



<Type : Round>

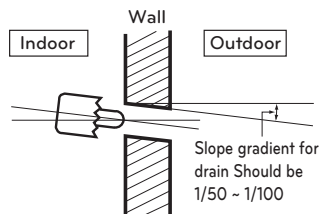
Tighten the screw as shown in the image so the deco panel doesn't move after the product has been installed. (1 Spot)



Screws to tighten the deco panel are contained in the indoor unit's accessory package.

⚠ CAUTION

Tighten the nut and bolt to prevent unit falling.

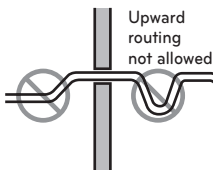
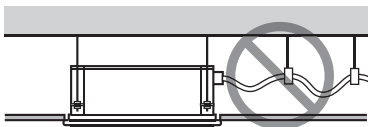
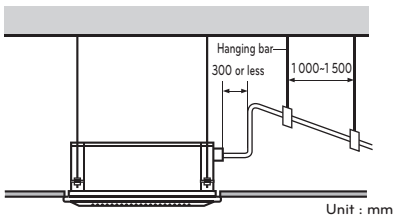
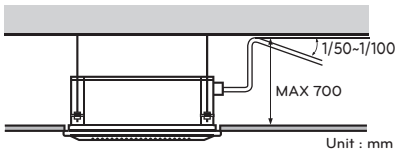


Indoor Unit Drain Piping

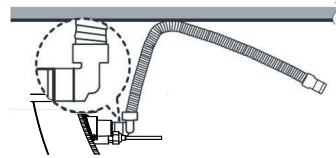
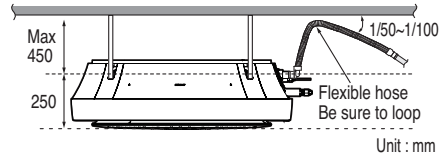
- Drain piping must have down-slope (1/50 to 1/100): be sure not to provide up-and-down slope to prevent reversal flow.
- During drain piping connection, be careful not to exert extra force on the drain port on the indoor unit.
- The outside diameter of the drain connection on the indoor unit is 32 mm.

Piping material: Polyvinyl chloride pipe VP-25 and pipe fittings

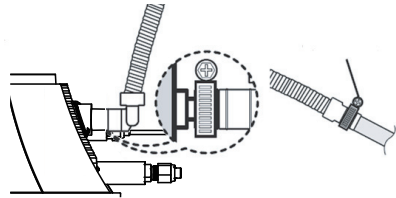
- Be sure to execute heat insulation on the drain piping.



Heat insulation material: Polyethylene foam with thickness more than 8 mm.



1. Connect the elbow connector to the product facing upwards.



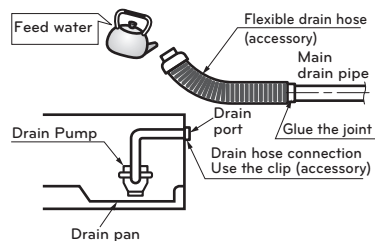
2. Place the bolt of the clamp joint upwards to secure the connector.

Drain test

The air conditioner uses a drain pump to drain water.

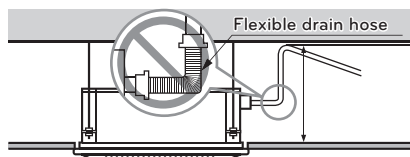
Use the following procedure to test the drain pump operation:

- Connect the main drain pipe to the exterior and leave it provisionally until the test comes to an end.
- Feed water to the flexible drain hose and check the piping for leakage.
- Be sure to check the drain pump for normal operating and noise when electrical wiring is complete.
- When the test is complete, connect the flexible drain hose to the drain port on the indoor unit.

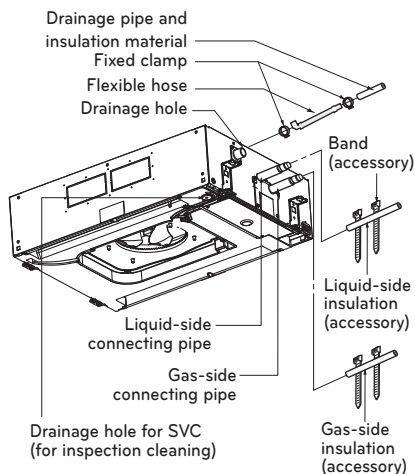


CAUTION

The supplied flexible drain hose should not be curved, neither screwed. The curved or screwed hose may cause a leakage of water.



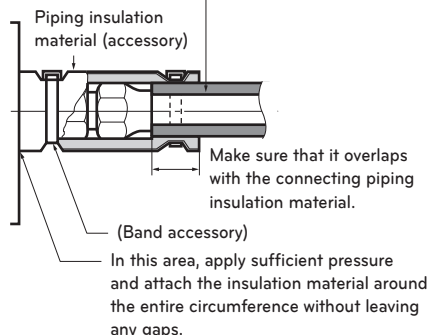
- 1 Be sure to insulate piping and drainage pipes.
- If condensation forms on the piping, it could cause water leakage.



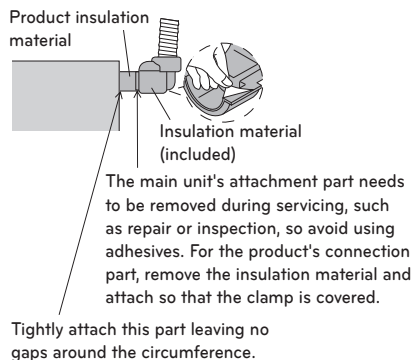
- When transporting the product, be careful not to let the drainage hole or connecting pipe bump into anything.
 - * The figure can be changed according to model.
- 2 Install insulation for piping and drainage pipes as shown in the figure.

Piping insulation

Insulation material for connecting piping (sold separately)
(Please use material that is heat-resistant to temperatures of 120°C or higher.)



Drainage pipe insulation



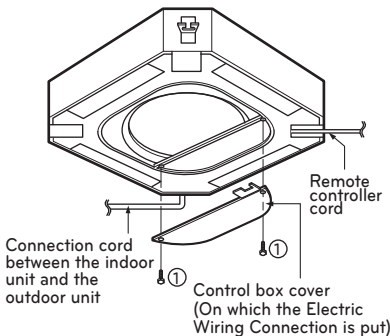
- 3 Cassette refrigerant piping EPDM insulation material standard thickness

Applies to	Insulation material standard (mm) (besides normal conditions for residential use)		Insulation material Standard (mm) - residential		Insulation material standard (mm) (unfavorable conditions)
			If installed in an air-conditioned place (CASE 1) (ex: bedroom, living room, etc.)	If installed in a non-air-conditioned place (CASE 2) (ex: hallway, outdoors, etc.)	
	Refrigerant piping dimensions (mm)	EPDM	EPDM	EPDM	EPDM
Gas piping	6.35	19	13	19	19
	9.52	19	13	19	25
	12.7	19	13	19	25
	15.88	19	13	19	25
	19.05	19	13	19	25
	22.22	19	13	19	32
	25.40	19	19	19	32
	28.58	19	19	19	32
	31.75	19	19	19	32
	38.1	25	19	25	32
	44.45	25	19	25	32
Liquid piping	6.35	9	9	9	9
	9.52				
	12.7~44.45	13	13	13	13

- Normal conditions: Temperature of 30 °C, relative humidity of 85 %
- Unfavorable conditions: Temperature of 30 °C, relative humidity of 90 % (humid places such as bathrooms, swimming pools, etc.: air supply and exhaust fan installation)

Wiring Connection

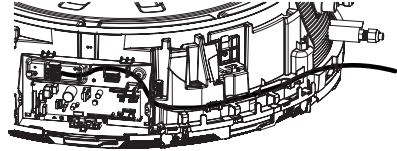
- Open the control box cover and connect the Remote controller cord and Indoor power wires.
- Remove the control box cover for electrical connection between the indoor and outdoor unit.
- Use the cord clumper to fix the cord.



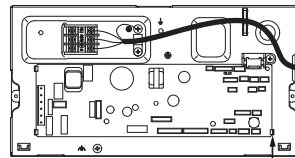
* The figure can be changed according to model.

Wiring Connection for Round Type

- Connect the wires to the terminals on the control box 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.

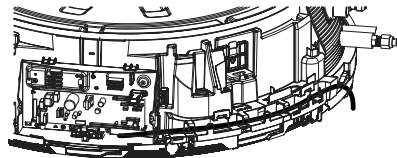


Transmission cord

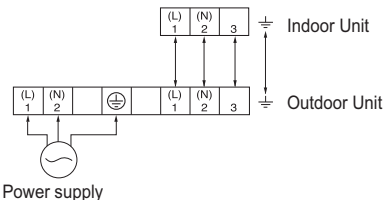


Remote controller cord

- When connecting the wired remote controller, remove the deco panel and pull into the lower hole of the control box.

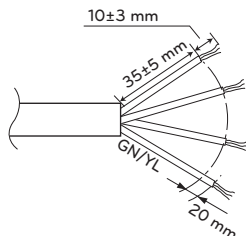


Wired remote controller connector



CAUTION

The connecting cable connected to the indoor and outdoor unit should be complied with the following specifications. (The appliance shall be installed in accordance with national wiring regulations.)



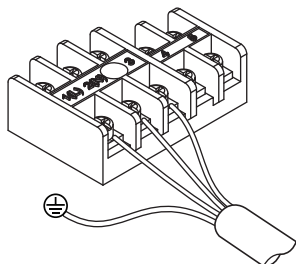
Type	Normal Cross-Sectional Area (mm ²)
4-Way, Round	0.75
1-Way	1.0

If the supply cord is damaged, it must be replaced by a special cord or assembly available from the manufacturer of its service agent.

Pipes and wires should be purchased separately for installation of the product.

CAUTION

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



* The figure can be changed according to model.

Precautions when laying power wiring

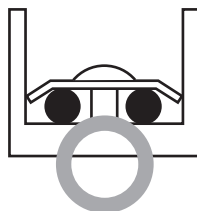
Use round pressure terminals for connections to the power terminal block.



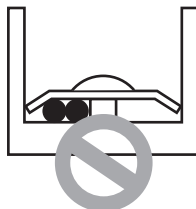
When none are available, follow the instructions below.

- Do not connect wiring of different thicknesses to the power terminal block. (Slack in the power wiring may cause abnormal heat.)
- When connecting wiring which is the same thickness, do as shown in the figure below.

Connect same thickness wiring to both sides.



It is forbidden to connect two to one side.



It is forbidden to connect wiring of different thicknesses.



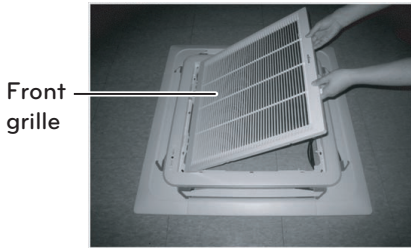
- For wiring, use the designated power wire and connect firmly, then secure to prevent outside pressure being exerted on the terminal block.
- Use an appropriate screwdriver for tightening the terminal screws. A screwdriver with a small head will strip the head and make proper tightening impossible.
- Over-tightening the terminal screws may break them.

INSTALLATION OF DECORATIVE PANEL(ACCESSORY)

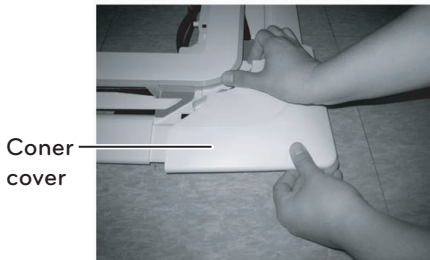
Decorative Panel for 4-Way Type

The decorative panel has its installation direction.
Before installing the decorative panel,
always remove the paper template.

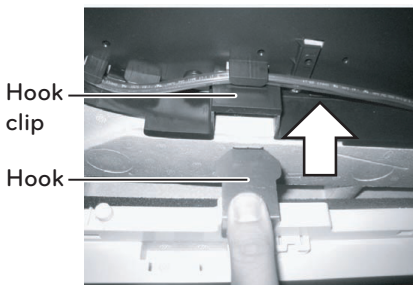
- 1 Remove the packing and take out air inlet grille from front panel.



- 2 Remove the Corner covers of the panel.

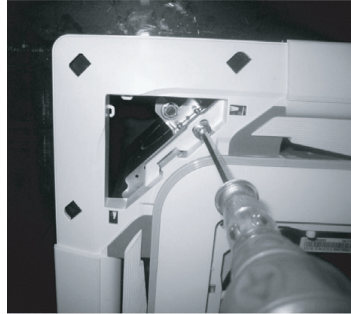


- 3 Fit the panel on the unit by inserting hooks as shown in picture.

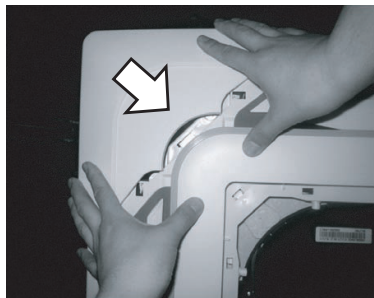


- 4 Insert two screws on diagonal corners of panel. Do not tighten the bolts completely. (The fixing screws are included in the indoor unit box.)

Check the alignment of panel with the ceiling. Height can be adjusted using hanging bolts as shown in picture. Insert the other two screws and tighten all screws completely.

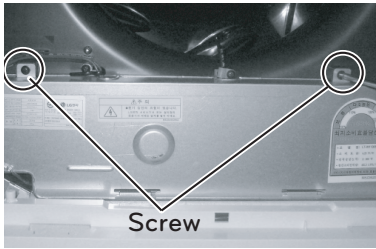


- 5 Fit the corner covers.



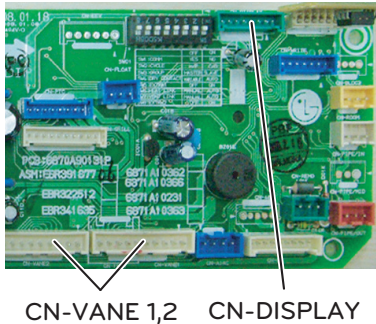
18 INSTALLATION OF DECORATIVE PANEL(ACCESSORY)

- 6 Open two screws of control panel cover.

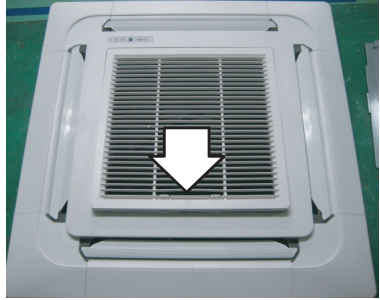


- 7 Connect one display connector and two vane control connectors of front panel to indoor unit PCB.

The position marking on PCB is as:
Display connector : CN-DISPLAY
Vane control connector: CN-VANE 1,2



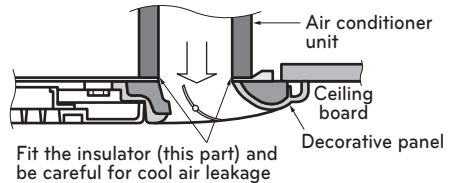
- 9 Install the air inlet grille and Filter on the panel.



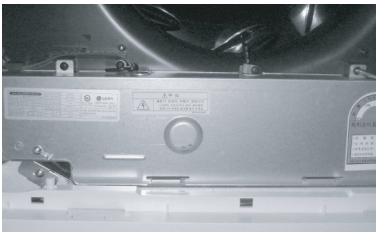
CAUTION

Install certainly the decorative panel.
Cool air leakage causes sweating. ☞
Water drops fall.

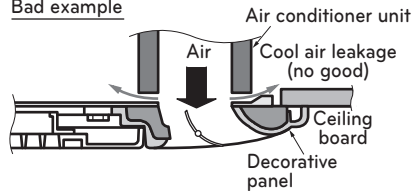
Good example



- 8 Close the cover for control box.



Bad example

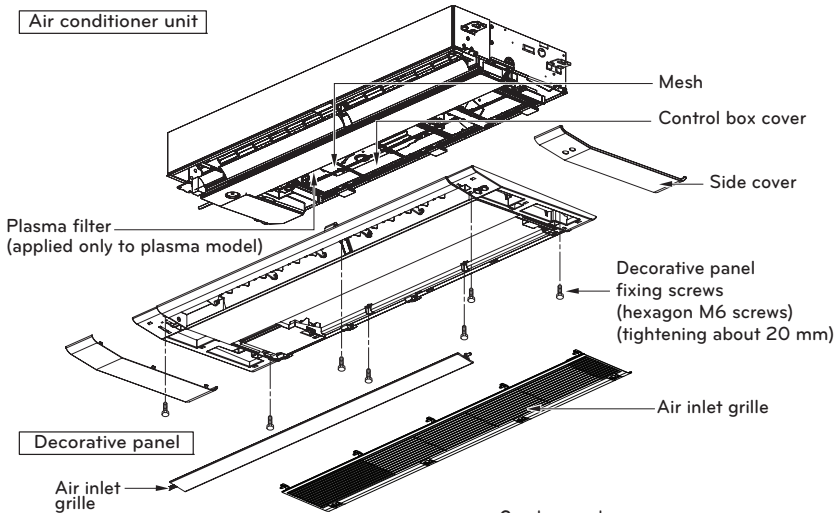


Decorative Panel for 1-Way Type (Type 1)

The decoration panel has its installation direction.

Before installing the decoration panel, always remove the paper template.

- 1 Open the air outlet vane, and extract side covers.
- 2 Remove the air inlet grille from the decoration panel.
- 3 Hook decoration panel to indoor unit, using hooks attached at the backside of both side of decoration panel.
- 4 Arrange wires not to get caught between decoration panel and indoor unit.
- 5 Screw 7 fixing screws.
- 6 Connect the vane motor connector and display connector. (Plasma connector for plasma model)
- 7 Install the air inlet grille (including the air filter) and side covers.

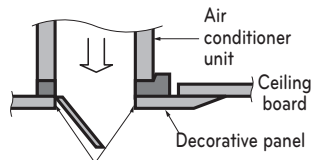


CAUTION

Install certainly the decorative panel.
Cool air leakage causes sweating.

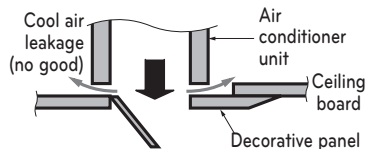
☞ Water drops fall.

Good example



Fit the insulator (this part) and be careful for cool air leakage

Bad example

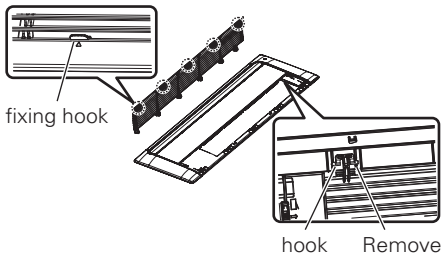


Decorative Panel for 1-Way Type (Type 2)

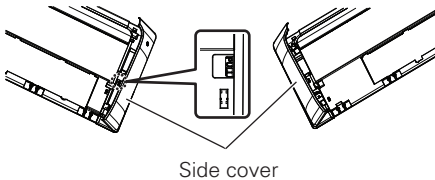
Front Panel Installation

Before installing the front panel, be sure to remove the air filter from the indoor unit.

- 1 Remove the suction panel.
 - Push all of the fixing hooks fitted on the front panel.
 - Open the suction panel and push it down to remove it completely.



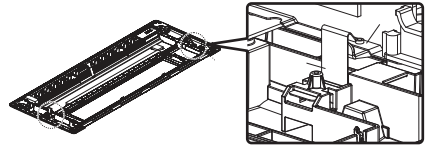
- 2 Pull on the PULL handle to remove the side covers on both sides of the front panel.



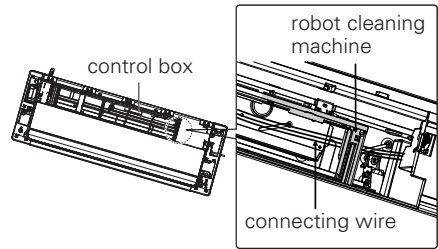
CAUTION

Be careful not to damage the hook.

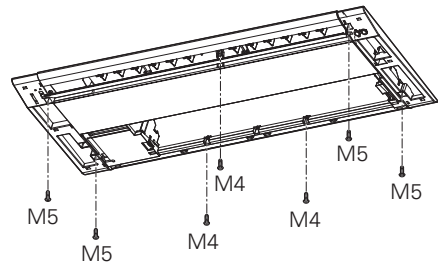
- 3 Hang the hooks from both ends of the front panel on the body of the indoor unit.



- 4 Put the front panel's connection wires inside the bottom of the drain pan and pull them out towards the control box.



- 5 Use the front panel fixing bolts to affix the panel to the indoor unit.



CAUTION

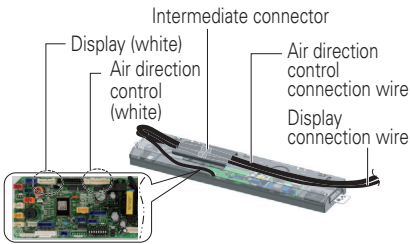
If you do not affix all the fixing screws, the air conditioner may operate abnormally.

6 Connecting the Panel Connector

- Models with Intermediate Connectors
Open the connector fixing cover and connect the air direction control/display/suction panel connection wires to the connector. Insert the connector into the designated area until it makes a 'click' sound.
Being poorly fastened could cause problems with operation.

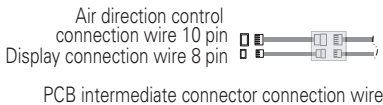
※ Air direction control connection wires and connector - 10 Pin (white)
Display connection wires and connectors - 8 Pin (white)
Plasma kit connection wires - 4 Pin (blue)

Case1: Models with regular grill

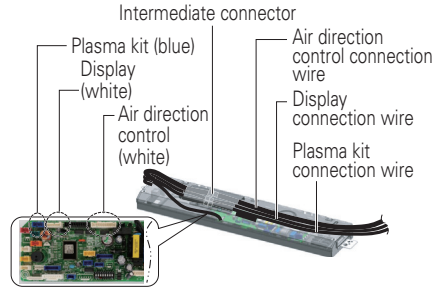


Fastening: Connect the air direction control connection wire and the display connection wire to the intermediate connector

Color: Air direction control connector [white], PCB housing [white] Display connector [white], PCB housing [white]

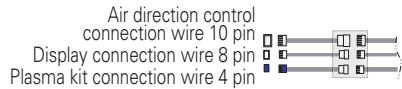


Case2: Models with plasma kit



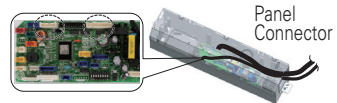
Fastening: Connect the air direction control connection wire, the display connection wire and the plasma kit connection wire to the intermediate connector

Color: Air direction control connector [white], PCB housing [white]
Display connector [white], PCB housing [white]
Plasma kit connector [white], PCB housing [white]



PCB intermediate connector connection wire

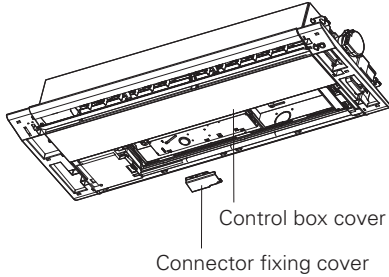
- For models without an intermediate connector, connect the air direction control/display/suction panel connection wires to the housing inside the main PCB.



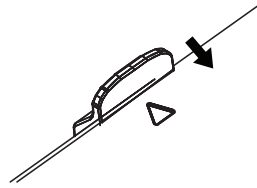
Air direction control connection wire and connector 10 Pin (white)
Display connection wire and connector 8 Pin (white)
PCB Panel Connector

22 INSTALLATION OF DECORATIVE PANEL(ACCESSORY)

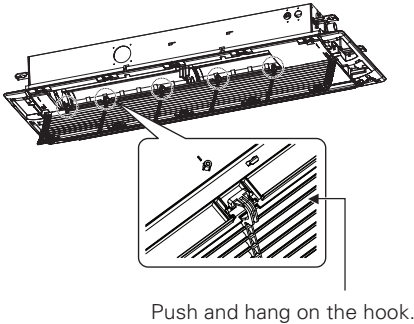
- 7 For models with an intermediate connector, fasten the connector fixing cover to the control box cover, and insert the air filter back into the indoor unit. Models without an intermediate connector are connected directly to the housing in the PCB and do not use a fixed cover.



- 9 Push on the fixing hook to secure the suction panel.



- 8 Reattach the suction panel to the front panel and close it completely.



! CAUTION

Make sure that the suction panel's hooks are all there and replace any missing hooks.

TEST RUNNING

PRECAUTIONS IN TEST RUN

- The initial power supply must provide at least 90 % of the rated voltage. Otherwise, the air conditioner should not be operated.

CAUTION

- For test run, carry out the cooling operation firstly even during heating season. If heating operation is carried out firstly, it leads to the trouble of compressor. Then attention must be paid.
- Carry out the test run more than 5 minutes without fail.
(Test run will be cancelled 18 minutes later automatically)

- To cancel the test run, press any button.

CHECK THE FOLLOWING ITEMS WHEN INSTALLATION IS COMPLETED

- After completing work, be sure to measure and record trial run properties, and store measured data, etc.
- Measuring items are room temperature, outside temperature, suction temperature, blow out temperature, wind velocity, wind volume, voltage, current, presence of abnormal vibration and noise, operating pressure, piping temperature, compressive pressure.
- As to the structure and appearance, check following items.
 - * Is the circulation of air adequate?
 - * Is the draining smooth?
 - * Is the heat insulation complete (refrigerant and drain piping)?
 - * Is there any leakage of refrigerant?
 - * Is the remote controller switch operated?
 - * Is there any faulty wiring?
 - * Are not terminal screws loosened?

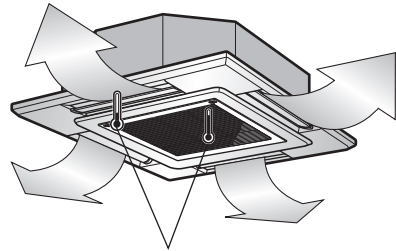
M4.....118 N·cm{12 kgf·cm}
 M5.....196 N·cm{20 kgf·cm}
 M6.....245 N·cm{25 kgf·cm}
 M8.....588 N·cm{60 kgf·cm}

Connection of power supply

- Connect the power supply cord to the independent power supply.
Circuit breaker is required.
- Operate the unit for 15 minutes or more.

Evaluation of the performance

- Measure the temperature of the intake and discharge air.
- Ensure the difference between the intake temperature and the discharge one is more than 8 °C (Cooling) or reversely (Heating).



Thermometer

* The figure can be changed according to model.

INSTALLATION INSTRUCTIONS

Installer Setting - How to enter installer setting mode

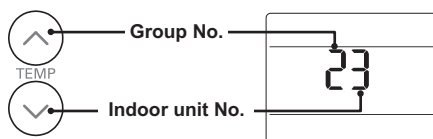
CAUTION

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 With the **MODE** button pressed, press the reset button.



- 2 By using the **▲** or **▼** button, set the indoor unit address.
- Setting range : 00 ~ FF



- 3 After setting the address, press the **⏻** button toward the indoor unit 1 time.
- 4 The indoor unit will display the set address to complete the address setting.
- The address display time and method can differ by the indoor unit type.

Installer Setting - Installer Setting Code Table

Installer Setting Code Table

No.	Function	Function Code	Setting Value	Remote Controller LCD
0	Mode Override	0	0 : Set to Master	0.0
			1 : Set to Slave	0.1
1	Ceiling Height Selection	1	1 : Standard	1.1
			2 : Low	1.2
			3 : High	1.3
			4 : Super High	1.4
2	Group Control	2	0 : Set to Master	2.0
			1 : Set to Slave	2.1
			2 : Check Master/Slave	2.2
	Auxiliary heater	2	3 : Set to Auxiliary heater	2.3
			4 : Cancel Auxiliary heater	2.4
			5 : Check Auxiliary heater Installation	2.5

Mode Override

This Function is only for Non-Auto Changeover H/P model.

Ceiling Height Selection

Indoor unit connected to wired remote controller operate as wired remote controller setting.

Group Control

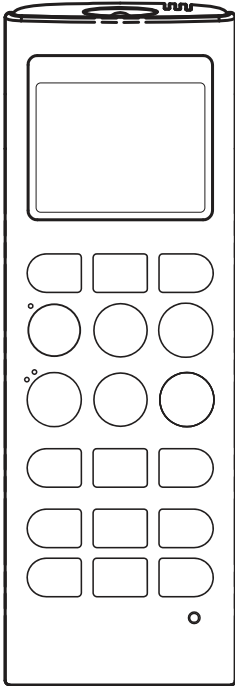
This function is only for group control. Please don't set this function in case of non-group control.

After setting Group Control of the product, turn off the power then turn it back on after 1 minute.

Auxiliary heater

This function is only applied to models with Auxiliary Heater function being activated.

Installer Setting - Setting Address of Central Control



- 1 With the MODE button pressed, press the RESET button.
- 2 By using the temperature setting button, set the indoor unit address.
 - Setting range : 00 ~ FF
- 3 After setting the address, press the ON/OFF button toward the indoor unit 1 time.
- 4 The indoor unit will display the set address to complete the address setting.
 - The address display time and method can differ by the indoor unit type.
- 5 Reset the remote controller to use the general operation mode.

Installer Setting - Checking Address of Central Control

- 1 With the FUNC. button pressed, press the RESET button.
- 2 Press the ON/OFF button toward the indoor unit 1 time, and the indoor unit will display the set address in the display window.
 - The address display time and method can differ by the indoor unit type.
- 3 Reset the remote controller to use the general operation mode.

