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LG

MULTI V System Indoor Unit (2 Series) **INSTALLATION MANUAL**

Type: Ceiling Suspended Convertable

IMPORTANT

- · 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.

IMPORTANT! Please read this instruction sheet completely before installing the product.

This air conditioning system meets strict safety and operating standards. As the installer or service person, it is an important part of your job to install or service the system so it operates safely and efficiently.

(
 Installation or repairs made by 	unqualified persons can result in hazards to you and others.
Installation MUST conform with	local building codes or, in the absence of local codes, with the National Electrical
	or current edition and Canadian Electrical Code Part1 CSA C.22.1.
 The information contained in th 	e 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 fol 	low all instructions in this manual can result in equipment malfunction, property
damage, personal injury and/or	death.
AUTION: Improper installation	, adjustment, alteration, service or maintenance can void the warranty.
The weight of the co	ndensing unit requires caution and proper handling procedures when lifting
or moving to avoid p	ersonal injury. Use care to avoid contact with sharp or pointed edges.
afety Precautions	
	vo wear and work gloves when installing equipment
	ye wear and work gloves when installing equipment.
	cal power is disconnected. Check with meter and equipment.
	n areas when power is connected to equipment.
 R-410A causes frostb 	vite burns.
 R-410A is toxic when 	burned.
	ER: The Owners Instructions and Warranty are to be given to the owner
OTE TO INSTALLING DEAL	or prominently displayed near the indoor Furnace/Air Handler Unit
	or prominently displayed hear the indoor Furnace/Air Handler Onit
	▲ Special warnings
When wiring:	
Electrical shock can	cause severe personal injury or death. Only a qualified,
experienced electrici	an should attempt to wire this system.
	he unit until all wiring and tubing are completed or reconnected and checked.
	I voltages are used in this system. Carefully refer to the wiring diagram and these
	nproper connections and inadeguate grounding can cause accidental injury or death
 Ground the unit following 	
	oose wiring may cause overheating at connection points and a possible fire hazard
When transporting:	
	up and moving the indoor and outdoor units. Get a partner to help, and
bend your knees when lif	ting to reduce strain on your back. Sharp edges or thin aluminum fins on
the air conditioner can cu	
When installing	-) ·····
in a wall. Make sure th	a wall is strong enough to hold the unit's weight
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It may be ne	cessary to construct a strong wood or metal frame to provide added support.
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MULTI V. Ceiling Suspended Convertable Type Indoor Unit Installation Manual

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Introduction

Symbols used in this Manual



This symbol alerts you to the risk of electric shock.

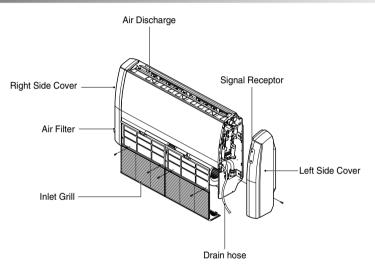


This symbol alerts you to hazards that may cause harm to the air conditioner.



This symbol indicates special notes.

Features



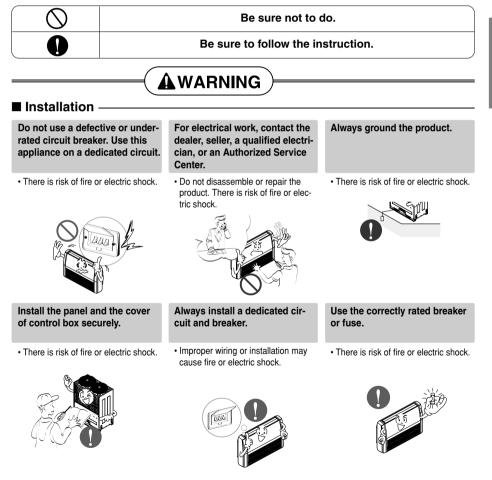
Safety Precautions

To prevent injury to the user or other people and property damage, the following instructions must be followed. Be sure to read before installing the air conditioner.

- Be sure to observe the cautions specified here as they include important items related to safety.
- Incorrect operation due to ignoring instruction will cause harm or damage. The seriousness is classified by the following indications.

WARNING This symbol indicates the possibility of death or serious injury.
 ACAUTION This symbol indicates the possibility of injury or damage to properties only.

Meanings of symbols used in this manual are as shown below.



Do not modify or extend the power cable.

• There is risk of fire or electric shock.



Do not let the air conditioner run for a long time when the humidity is very high and a door or a window is left open.

• Moisture may condense and wet or damage furniture.

Be cautious when unpacking and installing the product.

 Sharp edges could cause injury. Be especially careful of the case edges and the fins on the condenser and evaporator.



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.

Be sure the installation area does not deteriorate with age.

 If the base collapses, the air conditioner could fall with it, causing property damage, product failure, and personal injury.







Operation -

Do not store or use flammable gas or combustibles near the product.

There is risk of fire or failure of product.



Installation -

Always check for gas (refrigerant) leakage after installation or repair of product.

• Low refrigerant levels may cause failure of product.

Install the drain hose to ensure that water is drained away properly.

• A bad connection may cause water leakage.

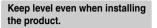


Do not install the product where the noise or hot air from the outdoor unit could damage the neighborhoods.

• It may cause a problem for your neighbors.

Use two or more people to lift and transport the product.

· Avoid personal injury.



· To avoid vibration or water leakage.



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.



If you eat the liquid from the batteries, brush your teeth and see doctor. Do not use the remote if the batteries have leaked.

• The chemicals in batteries could cause burns or other health hazards.







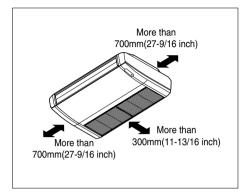
Installation

Read completely, then follow step by step.

Select the best Location

Indoor unit

- 1. Do not have any heat or steam near the unit.
- 2. Select a place where there are no obstacles in front of the unit.
- 3. Make sure that condensation drainage can be conveniently routed away.
- 4. Do not install near a doorway.
- 5. Ensure that the interval between a wall and the left (or right) of the unit is more than 70cm.
- 6. Use a stud finder to locate studs to prevent unnecessary damage to the wall.

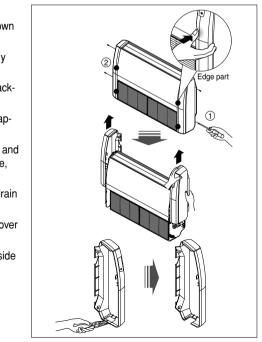


CAUTION : In case that the unit is installed near the sea, the installation parts may be corroded by salt. The installation parts (and the unit) should be taken appropriate anti-corrosion measures.

Preparing Work for Installation

Open side cover

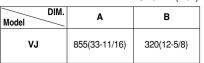
- 1. Remove two screws from side-cover as shown in fig.
- 2. Unlock side-cover from side panel by slightly pulling the edge of side cover.
- 3. Tap the side-cover with your palm on the backside.(Inlet grill side.)
- 4. Hold the side-cover with other hand while tapping to prevent it to fall down.
- 5. The Drain hole is on the left side of the unit and side cover opening is common for drain pipe, connecting pipe and wiring diagram.
- 6. Remove the rubber stopple in the desired drain direction.
- Knock out the pipe hole from the left side-cover with the help or nipper/plier.
- 8. Knock hole on right side-cover only if right side is selected for water drain.

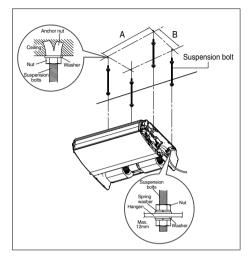


Unit: mm(inch)

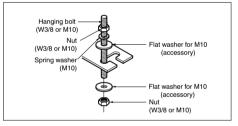
MOUNTING THE ANCHOR NUT AND BOLT

- Prepare 4 suspension bolts. (Each bolts length should be same.)
- Measure and mark the position for the Suspension bolts and the piping hole.
- Drill the hole for anchor nut on the ceiling.
- Insert the nuts and washer onto the suspension bolts for locking the suspension bolts on the ceiling.
- Mount the suspension bolts to the anchor-nuts firmly.
- Secure the hangers onto the Suspension bolts (adjust level roughly.) using nuts, washers and spring washers.
- Adjust a level with a level gauge on the direction of left-right, back-forth by adjusting suspension bolts.
- Adjust a level on the direction of top-bottom by adjusting supension bolts. Then the unit will be declined to the bottomside so as to drain well.



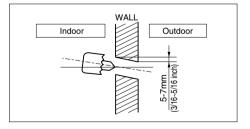


: Tighten the nut and bolt to prevent unit falling.



DRILL A HOLE IN THE WALL.

Drill the piping hole with a ø70mm hole core drill.
 Drill the piping hole at either the right or the left with the hole slightly slanted to the outdoor side.



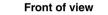
Indoor unit installation

Hang the Indoor unit on suspension bolt as per following guidelines:

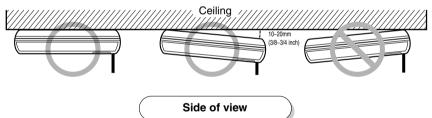
- 1. Lift the indoor unit to sufficient height.
- 2. Insert the suspended part of four suspension bolt in the four hangers provided on the side of main body one by one.
- 3. Lower the indoor unit till the hangers rest on their respective flat washer.
- 4. Adjust the level in the top down direction by adjusting the suspension bolts. Inclined the indoor unit as per direction provided in the fig

: Installation Information For Declination

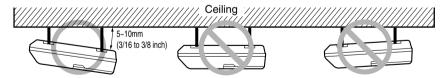
- 1. **Install declination** of the indoor unit is very **important for the drain** of the convertible type air conditioner.
- 2. Minimum thickness of the insulation for the connecting pipe shall be 10mm.
- 3. If the Installation Plates are fixed to horizontal line, the indoor unit after installing will be declined to the bottomside.



- The unit must be horizontal or inclined at angle.
- The inclination should be less than or equal to 1° or in between 10 to 20mm inclined in drain direction as shown in fig.



• The unit must be declined to the bottomside of the unit when finished installation.



Preparation of Piping

Main cause of gas leakage is defect in flaring work. Carry out correct flaring work in the following procedure.

1. Cut the pipes and the cable.

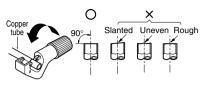
- Use the accessory piping kit or the pipes purchased locally.
- Measure the distance between the indoor and the outdoor unit.
- Cut the pipes a little longer than measured distance.
- Cut the cable 1.5m longer than the pipe length.

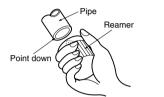
2. Burrs removal

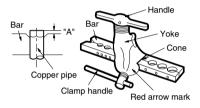
- Completely remove all burrs from the cut cross section of pipe/tube.
- Put the end of the copper tube/pipe to downward direction as you remove burrs in order to avoid to let burrs drop in the tubing.

3. Flaring work

Carry out flaring work using flaring tool as shown below. Firmly hold copper tube in a bar(or die) as indicated dimension in the table above.







4. Check

- Compare the flared work with figure below.
- If flare is noted to be defective, cut off the flared section and do flaring work again.

Smooth all round



Opening shutoff valve

- 1. Remove the cap and turn the valve counter clockwise with the hexagon wrench.
- 2. Turn it until the shaft stops.

Do not apply excessive force to the shutoff valve. Doing so may break the valve body, as the valve is not a backseat type. Always use the special tool.

3. Make sure to tighten the cap securely.

Closing shutoff valve

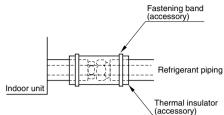
- 1. Remove the cap and turn the valve clockwise with the hexagon wrench.
- 2. Securely tighten the valve until the shaft contacts the main body seal.
- 3. Make sure to tighten the cap securely.
 - * For the tightening torque, refer to the table on the below.

HEAT INSULATION

- 1. Use the heat insulation material for the refrigerant piping which has an excellent heat-resistance (over 120°C).
- 2. Precautions in high humidity circumstance:

This air conditioner has been tested according to the "ISO Conditions with Mist" and confirmed that there is not any default. However, if it is operated for a long time in high humid atmosphere (dew point temperature: more than 23°C), water drops are liable to fall. In this case, add heat insulation material according to the following procedure:

• Heat insulation material to be prepared... EPDM (Ethylene Propylene Diene Methylene)-over 120°C the heat-resistance temperature.



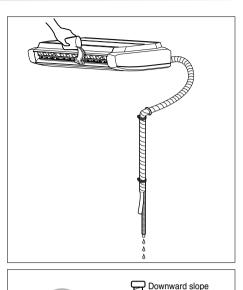
• Add the insulation over 10mm thickness at high humidity environment.

Checking the Drainage

1. Set the air direction louvers up-and-down to the position(horizontally) by hand.

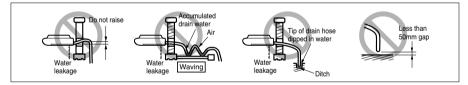
To check the drainage.

- 1. Pour a glass of water on the evaporator using a kettle.
- Ensure the water flows through the drain hose of the indoor unit without any leakage and goes out the drain exit.



Drain piping

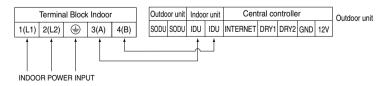
- 1. The drain hose should point downward for easy drain flow.
- 2. Do not make drain piping like the following.



Wiring Connection

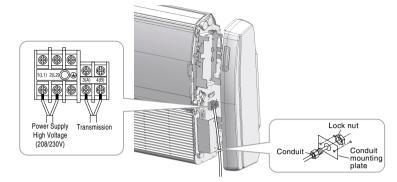
Connect the wires to the terminals on the control board individually according to the outdoor unit connection.

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



WARNING : Make sure that the screws of the terminal are free from looseness.

Connection method of the connecting cable(Example)



WARNING : Loose wiring may cause the terminal to overheat or result in unit malfunction.

A fire hazzard may also exist. Therefore, be sure all wiring is tightly connected.



CAUTION:

After the confirmation of the above conditions, prepare the wiring as follows:

- 1) Never fail to have an individual power specialized for the air conditioner. As for the method of wiring, be guided by the circuit diagram posted on the inside of control box cover.
- 2) Provide a circuit breaker switch between power source and the unit.
- 3) The screws which fasten the wiring in the casing of electrical fittings are liable to come loose from vibrations to which the unit is subjected during the course of transportation. Check them and make sure that they are all tightly fastened. (If they are loose, it could give rise to burn-out of the wires.)
- 4) Specification of power source
- 5) Confirm that electrical capacity is sufficient.
- 6) Be sure that the starting voltage is maintained at more than 90 percent of the rated voltage marked on the name plate.
- Confirm that the cable thickness is as specified in the power sources specification. (Particularly note the relation between cable length and thickness.)
- 8) Never fail to equip a leakage breaker where it is wet or moist.
- 9) The following troubles would be caused by voltage drop-down.
 - Vibration of a magnetic switch, damage on the contact point, fuse breaking, disturbance by the normal function of an overload protection device.
 - · Proper starting power is not given to the compressor.

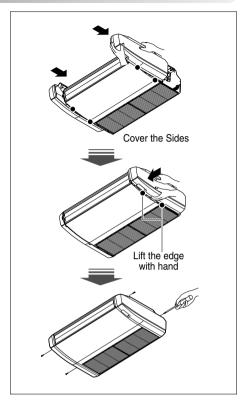
HAND OVER

Teach the customer the operation and maintenance procedures, using the operation manual. (air filter cleaning, temperature control, etc.)

ENGLISH

Side Cover Assembly

- 1. Cover the sides of main body with sidecover as shown in fig.
- 2. Lift slightly the edge of side-cover with hands to fix the cover properly on the panel.
- 3. Push the side-cover from front side (air outlet side) towards the inlet grill side to lock the side cover on the main body.
- 4. Fasten the securing screw.

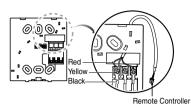


Installation Manual 15

Installation of Wired Remote Controller

1. Connect the wired remote controller cable to the wired remote controller installation board as shown in the right picture.

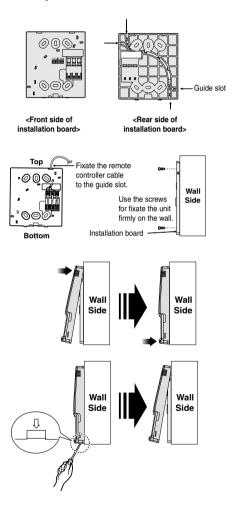
12V	Red wire	
SIG	Yellow wire	
GND	Black wire	



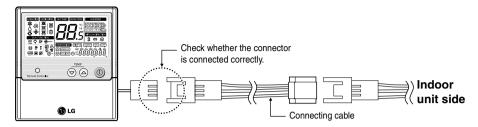
Cable

- * The wired remote controller cable is connected as factory default.
- 2. After fixing the cable to the guide slot, attach the wired remote controller installation board at the desired location.
- Before fixing the wired remote controller cable to the guide slot, remove any clogged part of the case in the direction to install before the installation.
- 3. After locating the wired remote controller installation board at the desired location, screw the unit firmly. (When there is a buried box, install the wired remote controller board to fit the buried box.)
- Use the screw provided.
- 4. After fixing the top part of the wired remote controller to the installation board as shown in beside picture, press the bottom part to assemble the controller to it's board.

When disassemble the wired remote controller from the installation board, use the driver as shown in the right picture and insert it into the hole with the arrow. And when you pull the driver in the front direction, the wired remote controller will be separated.



5. Use the connecting cable to connect the indoor unit and the wired remote controller.



6. When the distance between the wired remote controller and the indoor unit is 10m and above, use the extension cable.

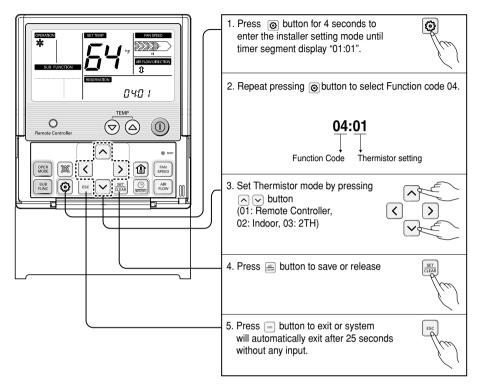
ACAUTION

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 50m 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.

Optional Operation of Wired Remote Controller

Two Thermistor System



* Therefore system will use value that sensed from indoor unit or remote controller

Temperature sensor location		Function		
01	Remote controller Operation in remote controller Temperature sensor			
02	Indoor unit	Operation in indoor unit temperature sensor		
03	2-Thermistor	Operation in lower temperature after comparing the temperature between the indoor unit and remote controller		

* If you want to know more Optional Operation, please refer to Wide Wired Remote Controller Manual.

Dip Switch Setting

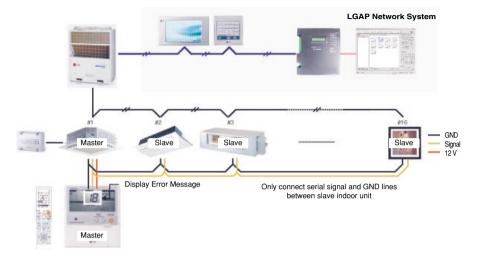
	Function	Description	Setting Off	Setting On	Default
SW1	Communication	N/A (Default)	-	-	Off
SW2	Cycle	N/A (Default)	-	-	Off
SW3	Group Control	Selection of Master or Slave	Master	Slave	Off
SW4	Dry Contact Mode	Selection of Dry Contact Mode	Wired/Wireless remote controller Selection of Manual or Auto operation Mode	Auto	Off
SW5	Installation	CST – No function	-	-	-
		Duct – Fan continuous oper- ation	Continuous operation Removal	tion Working	
		CVT – Selection of ceiling or floor	Ceiling	Floor	Off
		Console – Concealed or not	General installation	Concealed installation	
SW6	Heater linkage	N/A	-	-	Off
SW7	Ventilator linkage	Selection of Ventilator link- age	Linkage Removal	Working	0"
	Vane selection (Console)	Selection of up/down side Vane	Up side + Down side Vane	Up side Vane Only	Off
SW8	Etc.	Spare	-	-	Off

For Multi V Models, Dip switch 1, 2, 6, 8 must be set OFF. That dip switch is used for other models.

Group Control Setting

1. Group Control 1

■ Wired remote controller 1 + Indoor units



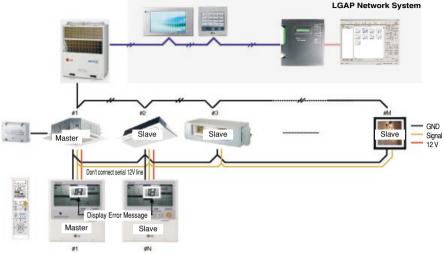
- **1. It is possible to 16 indoor units(Max) by one wired remote controller.** Set only one indoor unit to Master, set the others to Slave.
- 2. It is possible to connect with every type of indoor units.
- 3. It is possible to use wireless remote controller at the same time.
- 4. It is possible to connect with Dry Contact and Central controller at the same time. The Master indoor unit is possible to recognize Dry Contact and Central controller only.
- 5. In case of any error occurs at indoor unit, display on the wired remote controller. Exception of the error indoor unit, an individual indoor unit control possibility.

6. In case of Group Control, be limited additional functions of indoor unit.

- Selection of operation options (stop/mode/temperature)
- Control of flow rate (strong/middle/weak)
- Time reservation function
- Elevation grille
- # All kind of indoor units be set possible using a wireless remote controller, except cassette and duct types. Refer to wireless remote controller manual for setting group control.
- It is possible to connect indoor units since Feb. 2009. In the other cases, please contact LGE.

2. Group Control 2

Wired remote controllers + Indoor units



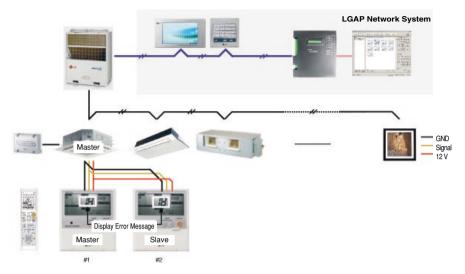
- 1. It is possible to control N indoor units by wired remote controller M units. (M+N≤17 Units) Set only one indoor unit to Master, set the others to Slave. Set only one wired remote controller to Master, set the others to Slave. Other than those, it is same with the Group Control 1.
- 2. It is possible to connect with every type of indoor units.
- 3. It is possible to use wireless remote controller at the same time.
- 4. It is possible to connect with Dry Contact and Central controller at the same time.

The Master indoor unit is possible to recognize Dry Contact and Central controller only.

- 5. In case of any error occurs at indoor unit, display on the wired remote controller. Exception of the error indoor unit, an individual indoor unit control possibility.
- 6. In case of Group Control, be limited additional functions of indoor unit.
 - Selection of operation options (stop/mode/temperature)
 - Control of flow rate (strong/middle/weak)
 - Time reservation function
 - Elevation grille
- * All kind of indoor units be set possible using a wireless remote controller, except cassette and duct types. Refer to wireless remote controller manual for setting group control.
- * It is possible to connect indoor units since Feb. 2009. In the other cases, please contact LGE.

3. 2 Remote Control

■ Wired remote controller 2 + Indoor unit 1



- 1. It is possible to connect two wired remote controllers with one indoor unit.
- 2. Every types of indoor unit is possible to connect two remote controller.
- 3. It is possible to use wireless remote controller at the same time.
- 4. It is possible to connect with Dry Contact and Central controller at the same time.
- 5. In case of any error occurs at indoor unit, display on the wired remote controller.
- 6. There isn't limits of indoor unit function.



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After reading this manual, keep it in a place easily accessible to the user for future reference.