

ENGLISH

FRANÇAIS

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.

TYPE: Wall Mounted



P/NO : MFL 42803105

www.lg.com

MULTI V. Wall Mounted Type Indoor Unit Installation Manual

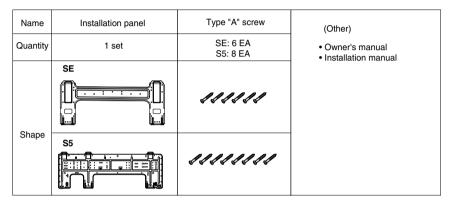
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Installation Parts



Standard Accessories



WIRED REMOTE CONTROLLER INSTALLATION

• Since the room temperature sensor is in the remote controller, the remote controller box should be installed in a place away from direct sunlight, high humidity and direct supply of cold air to maintain proper space temperature. Install the remote controller about 5ft(1.5m) above the floor in an area with good air circulation at an average temperature.

Do not install the remote controller where it can be affected by:

- Drafts, or dead spots behind doors and in corners.
- Hot or cold air from ducts.
- Radiant heat from sun or appliances.
- Concealed pipes and chimneys.
- Uncontrolled areas such as an outside wall behind the remote controller.
- This remote controller is equipped with a seven segment LED. display. For proper display of the remote controller LED's, the remote controller should be installed properly as shown in Fig.1. (The standard height is 1.2~1.5 m from floor level.)

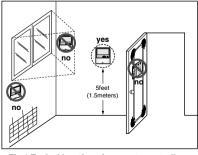


Fig.1 Typical locations for remote controller

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.

AWARNING 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.

\bigcirc	Be sure not to do.	
	Be sure to follow the instruction.	

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.	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.	Be cautious when unpacking and installing the product.
There is risk of fire or electric shock.	Moisture may condense and wet or damage furniture.	• Sharp edges could cause injury. Be especially careful of the case edges and the fins on the condenser and evapo-

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.

rator.

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

Use a vacuum pump or Inert (nitrogen) gas when doing leakage test or air purge. Do not compress air or Oxygen and Do not use Flammable gases. Otherwise, it may cause fire or explosion.

• There is the risk of death, injury, fire or explosion.

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.

Keep level even when installing the product.

• To avoid vibration or water leakage.

Do not install the product
where the noise or hot air from
the outdoor unit could dam-
age the neighborhoods.Use two or more people to lift
and transport the product.Do not install the product
where it will be exposed to
sea wind (salt spray) directly.• It may cause a problem for
your neighbors.• Avoid personal injury.• It may cause corrosion on the
product. Corrosion, particularly

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.

Selection of the best location

- 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, fence, or other obstacles.

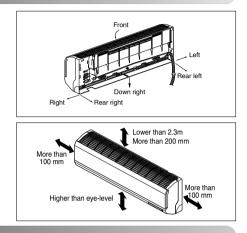
The mounting wall should be strong and solid enough to protect it from the vibration.

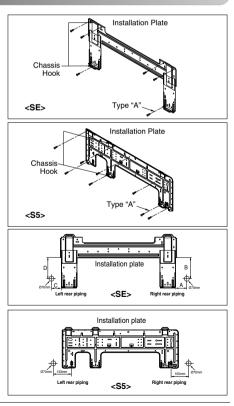
Fixing Installation Plate

The wall you select should be strong and solid enough to prevent vibration

- 1. Mount the installation plate on the wall with type "A" screws. If mounting the unit on a concrete wall, use anchor bolts.
- Mount the installation plate horizontally by aligning the centerline using a level.
- Measure the wall and mark the centerline. It is also important to use caution concerning the location of the installation plate-routing of the wiring to power outlets is through the walls typically. Drilling the hole through the wall for piping connections must be done safely.

CHASSIS	Distance (mm)			
UTA0010	Α	В	С	D
SE	70	110	90	110
S5	100	122	240	122

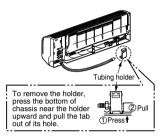




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Piping Method

- Preparing the indoor unit's piping and drain hose for installation through the wall.
- Remove the plastic tubing retainer(see illustration below) and pull the tubing and drain hose away from chassis.
- Replace the plastic tubing holder in the original position.



CAUTION : When install, make sure that the remaining parts must be removed clearly so as not to damage the piping and drain hose, especially power cord and connecting cable.

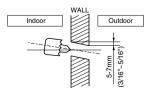


For left rear piping

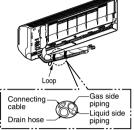
1. Route the indoor tubing and the drain hose in the direction of rear left.



- 2. Insert the connecting cable into the indoor unit from the outdoor unit through the piping hole.
 - Do not connect the cable to the indoor unit.
 - Make a small loop with the cable for easy connection later.
 - 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.



3. Tape the tubing, drain hose and the connecting cable. Be sure that the drain hose is located at the lowest side of the bundle. Locating at the upper side can cause drain pan to overflow inside the unit.

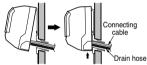


INDITICE : If the drain hose is routed inside the room, insulate the hose with an insulation material* so that dripping from "sweating"(condensation) will not damage furniture or floors.

*Foamed polyethylene or equivalent is recommended.

4. Indoor unit installation

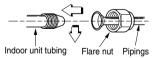
Hook the indoor unit onto the upper portion of the installation plate. (Engage the two hooks of the rear top of the indoor unit with the upper edge of the installation plate.) Ensure that the hooks are properly seated on the installation plate by moving it left and right.



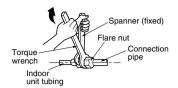
Press the lower left and right sides of the unit against the installation plate until the hooks engage into their slots(clicking sound).

5. Connecting the pipings to the indoor unit and drain hose to drain pipe.

Align the center of the pipings and sufficiently tighten the flare nut by hand.

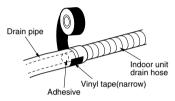


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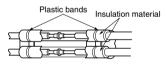


Pipe Size[Torque]		
GAS LIQUID		
Ø12.7[5.5kgf·m]	Ø6.35[1.8kgf⋅m]	
Ø15.88[6.6kgf·m]	Ø9.52[4.2kgf·m]	

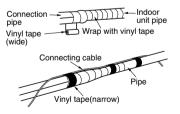
When extending the drain hose at the indoor unit, install the drain pipe.



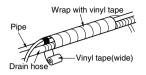
- 6. Wrap the insulation material around the connecting portion.
 - Overlap the connection pipe insulation material and the indoor unit pipe insulation material. Bind them together with vinyl tape so that there is no gap.



Wrap the area which accommodates the rear piping housing section with vinyl tape.



Bundle the piping and drain hose together by wrapping them with vinyl tape over the range within which they fit into the rear piping housing section.



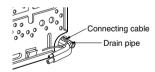
If the split type Indoor unit is installed in a wall having hole or opening near by or back side of the unit, then the air from other side of the wall can come inside the condition space through that hole/ opening. That air can cause unwanted dew/ water droplet formation when it comes in contact with body of the indoor unit. So all hole or opening on the wall must be blocked very well to avoid water dropping from the body of the unit.

For right rear piping

1. Route the indoor tubing and the drain hose to the required piping hole position.



2. Insert the piping, drain hose and the connecting cable into the piping hole.

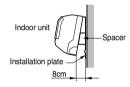


- Insert the connecting cable into the indoor unit.
 Don't connect the cable to the indoor unit.
 - Make a small loop with the cable for easy connection later.
- 4. Tape the drain hose and the connecting cable.
 - · Connecting cable

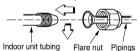


5. Indoor unit installation

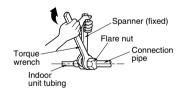
- Hang the indoor unit from the hooks at the top of the installation plate.
- Insert the spacer etc. between the indoor unit and the installation plate and separate the bottom of the indoor unit from the wall.



- 6. Connecting the pipings to the indoor unit and the drain hose to drain pipe.
 - Align the center of the pipings and sufficiently tighten the flare nut by hand.

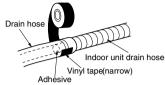


■ Tighten the flare nut with a wrench.

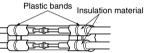


Pipe Size[Torque]		
GAS	LIQUID	
Ø12.7[5.5kgf·m]	Ø6.35[1.8kgf·m]	
Ø15.88[6.6kgf·m]	Ø9.52[4.2kgf·m]	

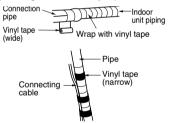
When extending the drain hose at the indoor unit, install the drain pipe.



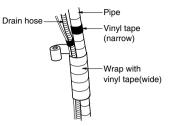
- 7. Wrap the insulation material around the connecting portion.
 - Overlap the connection pipe heat insulation and the indoor unit pipe heat insulation material. Bind them together with vinyl tape so that there is no gap.



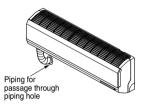
Wrap the area which accommodates the rear piping housing section with vinyl tape.



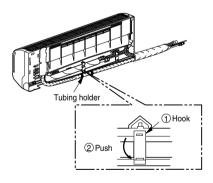
Bundle the piping and drain hose together by wrapping them with cloth tape over the range within which they fit into the rear piping housing section.



8. Reroute the pipings and the drain hose across the back of the chassis.

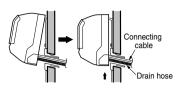


- 9. Set the pipings and the drain hose to the back of the chassis with the tubing holder.
 - Hook the edge of tubing holder to tap on chassis and push the bottom of tubing holder to be engaged at the bottom of chassis.



10. Indoor unit installation

- Remove the spacer.
- Ensure that the hooks are properly seated on the installation plate by moving it left and right.



Press the lower left and right sides of the unit against the installation plate until the hooks engage into their slots(clicking sound).

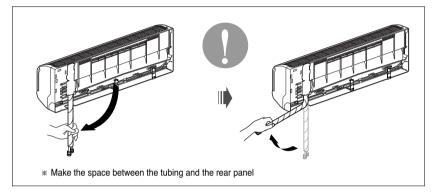
ACAUTION

If the split type Indoor unit is installed in a wall having hole or opening near by or back side of the unit, then the air from other side of the wall can come inside the condition space through that hole/ opening. That air can cause unwanted dew/ water droplet formation when it comes in contact with body of the indoor unit. So all hole or opening on the wall must be blocked very well to avoid water dropping from the body of the unit.

Installation Information. For left piping. Follow the instruction below.

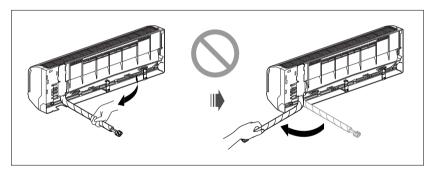
Good case

• Press on the upper side of clamp and unfold the tubing to downward slowly.



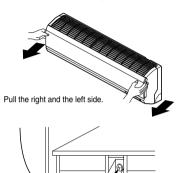
Bad case

• Following bending type from right to left may cause damage to the tubing.



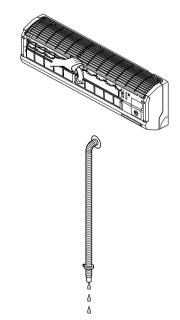
Drain Piping

- 1. To remove the front panel from the indoor unit, remove the front panel from the indoor unit cabinet.
 - Set the air direction louvers up-and-down to the position(horizontally) by hand.
 - Remove the securing screws that retain the front panel. Pull the lower left and right sides of the grille toward you and lift it off. (2.1/7, 2.6/9, 3.5/12 kW/Btu models: 2EA, 3.5/18 kW/Btu models: 3EA)



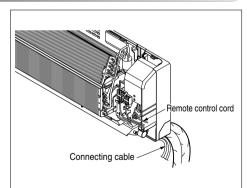
Screw

- 2. To check the drainage.
 - Pour a glass of water on the evaporator.
 - Ensure the water flows through the drain hose of the indoor unit without any leakage and goes out the drain exit.

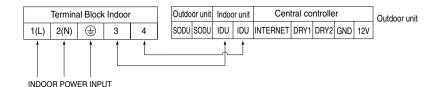


Wiring Connection

- 1) 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.

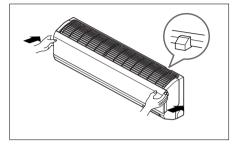


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2) Attach the Grille onto the cabinet.

- Grasp lower the left and right side of the Grille and engage four tabs on the top inside edge of the chassis.
- Press the Grille toward the chassis until it will be back into place.



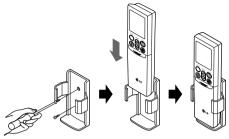
CAUTION : The Power cord connected to the unit should be selected according to the following specifications.

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

- Never fail to have an individual power circuit specifically for the air conditioner. As for the method of wiring, be guided by the circuit diagram posted on the inside of control cover.
- 2) The screw 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 cause burn-out of the wires.)
- 3) Specification of power source.
- 4) Confirm that electrical capacity is sufficient.
- 5) See to that the starting voltage is maintained at more than 90 percent of the rated voltage marked on the name plate.
- 6) Confirm that the cable thickness is as specified in the power source specification. (Particularly note the relation between cable length and thickness.)
- 7) In a wet or moist area, always install an earth leakage circuit breaker.
- 8) The following would be caused by voltage drop.
 - Vibration of a magnetic switch, which will damage the contact point, fuse breaking, disturbance of the normal function of the overload.
- 9) The means for disconnection from a power supply shall be incorporated in the fixed wiring and have an air gap contact separation of at least 3mm in each active(phase) conductors.

Installation of wirelss remote controller

How to mount onto a wall

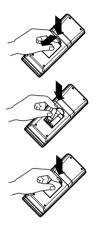


How to insert the batteries

- 1. Remove the battery cover by pulling it according to the arrow direction.
- 2. Insert new batteries making sure that the (+) and (-) of battery are installed correctly.
- 3. Reattach the cover by sliding it back into position.

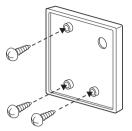
NOTICE

- 1. Always use/replace both batteries of same type.
- 2. If the system is not to be used for a long time, remove the batteries to save their working life.
- 3. If the display screen of remote controller starts, fading replace both of the batteries.



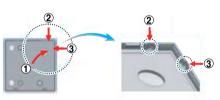
Installation of Wired Remote Controller

- 1. Please fix tightly using provided screw after placing remote controller setup board on the place where you like to setup.
 - Please set it up not to bend because poor setup could take place if setup board bends.
 - Please set up remote controller board fit to the reclamation box if there is a reclamation box.



2. Can set up Wired remote controller cable into three directions.

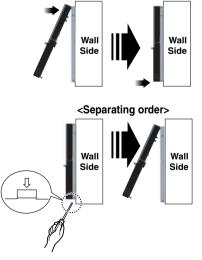
- Setup direction: the surface of wall reclamation, upper, right
- If setting up remote controller cable into upper and right side, please set up after removing remote controller cable guide groove.
- ℜ Remove guide groove with long nose.
- ① Reclamation to the surface of the wall
- ② Upper part guide groove
- 3 Right part guide groove



<Wire guide grooves>

- Please fix remote controller upper part into the setup board attached to the surface of the wall, as the picture below, and then, connect with setup board by pressing lower part.
 - Please connect not to make a gap at the remote controller and setup board's upper and lower, right and left part.

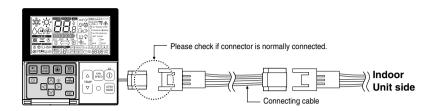
<Connecting order>



When separating remote controller from setup board, as the picture below, after inserting into the lower separating hole using screw driver and then, spinning clockwise, remote controller is separated.

- There are two separating holes. Please individually separate one at a time.
- Please be careful not to damage the inside components when separating.

4. Please connect indoor unit and remote controller using connection cable.



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

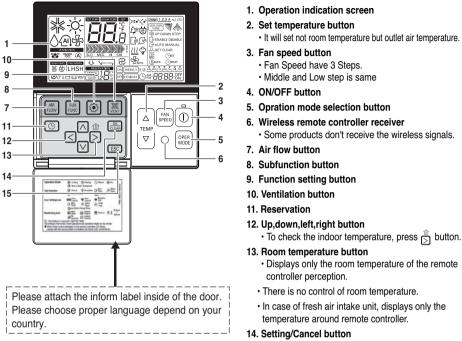
ACAUTION

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.

Name and function of wired remote controller(Accessory)



15. Exit button

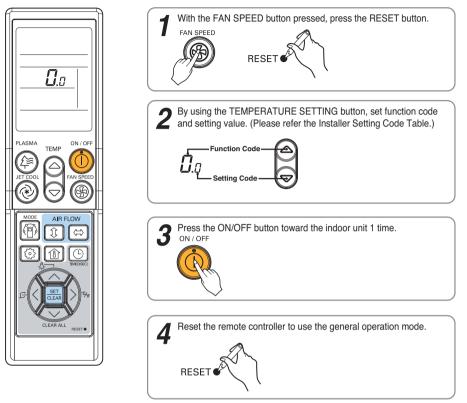
Some functions may not be operated and displayed depending on the product type.
 It will display strange value to the room temperature if wired remote controller is not connected.

Model : PQRCVSL0 (Black Color) PQRCVSL0QW (White Color)

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Group Control Setting

Master/Slave Setting

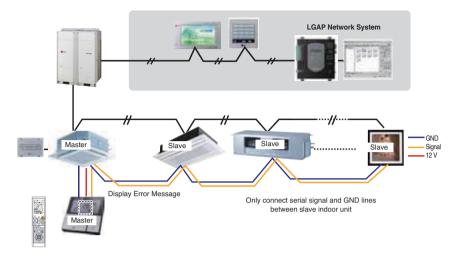


Installer Setting Code Table

No.	Function	Function Code	Setting Value	Remote Controller LCD
		2	0 : Set to Master	2.0
1	Group Control		1 : Set to Slave	2.1
		2 : Check Master/Slave	2 .2	

1. Group Control 1

Wired remote controller 1 + Indoor units

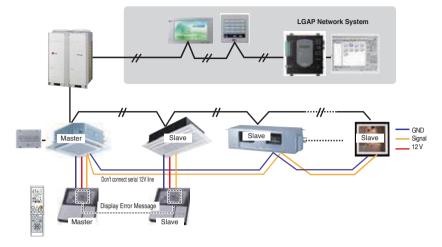


- **1. It is possible to 16 indoor units(Max) by one wired remote controller.** Set only one indoor unit to Master, set the others to Slave.
- 2. It is possible to connect with every type of indoor units.
- 3. It is possible to use wireless remote controller at the same time.
- 4. It is possible to connect with Dry Contact and Central controller at the same time.
 - The Master indoor unit is possible to recognize Dry Contact and Central Controller only.
 - In case of Central controller and Group controller at the same time, it is possible to connect standard 2series indoor units or later since Feb. 2009.
 - In case of Central controller setting, the Central controller can control indoor units after setting only the address of master indoor unit.
 - Slave indoor unit will be operated like master indoor unit.
 - Slave indoor unit can not be individually controlled by Central controller.
 - Some remote controller can't perform with Dry Contact and Central controller at the same time. So contact us further information about it.
- 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, it is possible to use following functions.
 - Selection of operation options (operation/stop/mode/set temperature)
 - Control of flow rate (High/Middle/Low)
 - It is not possible at some functions.
- * Indoor units be set possible using a wireless remote controller.

This indoor unit be set possible using a wireless remote controller for setting group control. (type : Wall Mounted, ART COOL Gallery, ART COOL Mirror)

- * It is possible to connect indoor units since Feb. 2009. In the other cases, please contact LGE.
- * It can be the cause of malfuctions when there is no setting of master and slave.

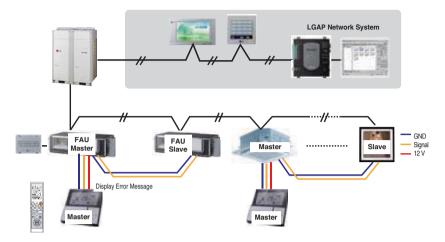
2. Group Control 2



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.

3. Group Control 3

Mixture connection with indoor units and Fresh Air Intake Unit



* In case of connecting with standard indoor unit and Fresh Intake Unit, separate Fresh Air Intake Unit with standard units. (Because setting temperature are different.)

***** Other than those, it is same with Group Control 1.

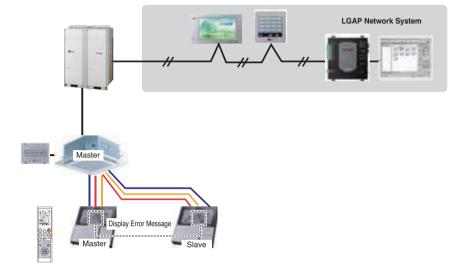


* FAU : Fresh Air Intake Unit Standard: Standard Indoor Unit

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4. 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.
- * Maximum 2wired remote controllers can be connected with 1 indoor unit.

5. Accessories for group control setting

It is possible to set group control by using below accessories.

