



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.

Floor standing

Original instruction for commercial use



MFL72016701
Rev.05_111825



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TIPS FOR SAVING ENERGY

Here are some tips that will help you minimize the power consumption when you use the air conditioner. You can use your air conditioner more efficiently by referring to the instructions below:

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

For your records

Staple your receipt to this page in case you need it to prove the date of purchase or for warranty purposes. Write the model number and the serial number here:

Model number : _____





Serial number : _____

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


Dealer's name : _____

Date of purchase : _____

SAFETY INSTRUCTIONS

	Read the precautions in this manual carefully before operating the unit.		This appliance is filled with flammable refrigerant (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

- 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.
 - There is risk of fire or electric shock.
- Always ground the unit.
 - 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.
- Do not modify or extend the power cable.
 - There is risk of fire or electric shock.
- Do not install, remove, or reinstall the unit by yourself (customer).
 - There is risk of fire, electric shock, explosion, or injury
- For antifreeze, always contact the dealer or an authorized service center.
 - Almost the antifreeze is a toxic product.
- 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 unit on a defective installation stand.
 - It may cause injury, accident, or damage to the unit.
- Be sure the installation area does not deteriorate with age.
 - If the base collapses, the unit could fall with it, causing property damage, unit failure, and personal injury.
- Do not install the water pipe system as Open loop type.
 - It may cause failure of unit.

- Use a vacuum pump or inert (nitrogen) gas when doing leakage test or purging air. Do not compress air or oxygen and do not use flammable gases.
 - There is the risk of death, injury, fire or explosion.
- Make sure the connected condition of connector in product after maintenance.
 - Otherwise, it may cause product damage.
- Do not touch leaked refrigerant directly.
 - There is risk of frostbite.
- Copper in contact with refrigerants shall be oxygen-free or deoxidized, for example Cu-DHP as specified in EN 12735-1 and EN 12735-2.
- Compliance with national gas regulations shall be observed.
- Refrigerant tubing shall be protected or enclosed to avoid damage.
- The installation of pipe-work shall be kept to a minimum.
- A brazed, welded, or mechanical connection shall be made before opening the valves to permit refrigerant to flow between the refrigerating system parts. A vacuum valve shall be provided to evacuate the interconnecting pipe and/or any uncharged refrigerating system part.
- 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 authorises their competence to handle refrigerants safely in accordance with an industry recognised assessment specification.
- Do not use means to accelerate the defrosting process or to clean, other than those recommended by the manufacturer.
- Do not pierce or burn.
- Be aware that refrigerants may not contain an odour.

- Dismantling the unit, treatment of the refrigerant oil and eventual parts should be done in accordance with local and national standards.
- Flexible refrigerant connectors (such as connecting lines between the indoor and outdoor unit) that may be displaced during normal operations shall be protected against mechanical damage.
- Pipe-work shall be protected from physical damage.
- Mechanical connections (mechanical connectors or flared joints) shall be accessible for maintenance purposes.

Operation

- Take care to ensure that power cable could not be pulled out or damaged during operation.
 - There is risk of fire or electric shock.
- Do not place anything on the power cable.
 - There is risk of fire or electric shock.
- Do not plug or unplug the power supply plug during operation.
 - There is risk of fire or electric shock.
- Do not touch (operate) the unit with wet hands.
 - There is risk of fire or electric shock.
- Do not place a heater or other appliances near the power cable.
 - There is risk of fire or electric shock.
- Do not allow water to run into electric parts.
 - There is risk of fire, failure of the unit, or electric shock.
- Do not store or use flammable gas or combustibles near the unit.
 - There is risk of fire or failure of unit.
- Do not use the unit in a tightly closed space for a long time.
 - It may cause damage to the unit.

- When flammable gas leaks, turn off the gas and open a window for ventilation before turning the unit on.
 - There is risk of explosion or fire.
- If strange sounds, or smell or smoke comes from unit, turn the breaker off or disconnect the power supply cable.
 - There is risk of electric shock or fire.
- Stop operation and close the window in storm or hurricane. If possible, remove the unit from the window before the hurricane arrives.
 - There is risk of property damage, failure of unit, or electric shock.
- Do not open the front cover of the unit while operation. (Do not touch the electrostatic filter, if the unit is so equipped.)
 - There is risk of physical injury, electric shock, or unit failure.
- Do not touch any electric part with wet hands. you should be power off before touching electric part.
 - There is risk of electric shock or fire.
- Do not touch refrigerant pipe and water pipe or any internal parts while the unit is operating or immediately after operation.
 - There is risk of burns or frostbite, personal injury.
- If you touch the pipe or internal parts, you should be wear protection or wait time to return to normal temperature.
 - Otherwise , it may cause burns or frostbite, personal injury.
- Turn the main power on 6 hours ago before the product starting operation.
 - Otherwise, it may cause compressor damage.
- Do not touch electric parts for 10 minutes after main power off.
 - There is risk of physical injury, electric shock.
- The inside heater of product may operate during stop mode. It is intended to protect the product.

- Be careful that some part of the control box are hot.
 - There is risk of physical injury or burns.
- When the unit is soaked (flooded or submerged), contact an Authorized Service Center.
 - There is risk of fire or electric shock.
- Be cautious that water could not be poured to the unit directly.
 - There is risk of fire, electric shock, or unit damage.
- Ventilate the unit from time to time when operating it together with a stove, etc.
 - There is risk of fire or electric shock.
- Turn the main power off when cleaning or maintaining the unit.
 - There is risk of electric shock.
- Take care to ensure that nobody could step on or fall onto the unit.
 - This could result in personal injury and unit damage.
- If the unit is not used for long time, we strongly recommend not to switch off the power supply to the unit.
 - There is risk of water freezing.
- The appliance shall be stored in a well-ventilated area where the room size corresponds to the room area as specified for operation.
- 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).
- The appliance shall be stored so as to prevent mechanical damage from occurring.
- 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.

- When mechanical connectors are reused indoors, sealing parts shall be renewed. When flared joints are reused indoors, the flare part shall be re-fabricated.
- Periodic (more than once/year) cleaning of the dust or salt particles stuck on the heat exchangers by using water.
- Keep any required ventilation openings clear of obstruction.

Repair

• **Detection of flammable refrigerants**

Under no circumstances shall potential sources of ignition be used in the searching for or detection of refrigerant leaks.

A halide torch (or any other detector using a naked flame) shall not be used.

• **Leak detection methods**

The following leak detection methods are deemed acceptable for systems containing flammable refrigerants.

Electronic leak detectors shall be used to detect flammable refrigerants, but the sensitivity may not be adequate, or may need re-calibration. (Detection equipment shall be calibrated in a refrigerant-free area.) Ensure that the detector is not a potential source of ignition and is suitable for the refrigerant used.

Leak detection equipment shall be set at a percentage of the LFL of the refrigerant and shall be calibrated to the refrigerant employed and the appropriate percentage of gas (25 % maximum) is confirmed.

Leak detection fluids are suitable for use with most refrigerants but the use of detergents containing chlorine shall be avoided as the chlorine may react with the refrigerant and corrode the copper pipe-work.

If a leak is suspected, all naked flames shall be removed/extinguished.

If a leakage of refrigerant is found which requires brazing, all of the refrigerant shall be recovered from the system, or isolated (by means of shut off valves) in a part of the system remote from the leak. Oxygen free nitrogen (OFN) shall then be purged through the system both before and during the brazing process.

- **Removal and evacuation**

When breaking into the refrigerant circuit to make repairs – or for any other purpose - conventional procedures shall be used. However, it is important that best practice is followed since flammability is a consideration.

The following procedure shall be adhered to:

- Remove refrigerant
- Purge the circuit with inert gas
- Evacuate
- Purge again with inert gas
- Open the circuit by cutting or brazing.

The refrigerant charge shall be recovered into the correct recovery cylinders. The system shall be “flushed” with OFN to render the unit safe.

This process may need to be repeated several times.

Compressed air or oxygen shall not be used for this task.

Flushing shall be achieved by breaking the vacuum in the system with OFN and continuing to fill until the working pressure is achieved, then venting to atmosphere, and finally pulling down to a vacuum.

This process shall be repeated until no refrigerant is within the system. When the final OFN charge is used, the system shall be vented down to atmospheric pressure to enable work to take place. This operation is absolutely vital if brazing operations on the pipe-work are to take place. Ensure that the outlet for the vacuum pump is not close to any ignition sources and there is ventilation available.

• Charging procedures

In addition to conventional charging procedures, the following requirements shall be followed.

- Ensure that contamination of different refrigerants does not occur when using charging equipment. Hoses or lines shall be as short as possible to minimise the amount of refrigerant contained in them.
- Cylinders shall be kept upright.
- Ensure that the refrigeration system is earthed prior to charging the system with refrigerant.
- Label the system when charging is complete (if not already).
- Extreme care shall be taken not to overfill the refrigeration system. Prior to recharging the system it shall be pressure tested with OFN. The system shall be leak tested on completion of charging but prior to commissioning. A follow up leak test shall be carried out prior to leaving the site.

• Recovery

When removing refrigerant from a system, either for servicing or decommissioning, it is recommended good practice that all refrigerants are removed safely. When transferring refrigerant into cylinders, ensure that only appropriate refrigerant recovery cylinders are employed. Ensure that the correct number of cylinders for holding the total system charge are available. All cylinders to be used are designated for the recovered refrigerant and labelled for that refrigerant (i.e. special cylinders for the recovery of refrigerant).

Cylinders shall be complete with pressure relief valve and associated shut-off valves in good working order. Empty recovery cylinders are evacuated and, if possible, cooled before recovery occurs.

The recovery equipment shall be in good working order with a set of instructions concerning the equipment that is at hand and shall be suitable for the recovery of flammable refrigerants. In addition, a set of calibrated weighing scales shall be available and in good working order.

Hoses shall be complete with leak-free disconnect couplings and in good condition. Before using the recovery machine, check that it is in satisfactory working order, has been properly maintained and that any associated electrical components are sealed to prevent ignition in the event of a refrigerant release. Consult manufacturer if in doubt.

The recovered refrigerant shall be returned to the refrigerant supplier in the correct recovery cylinder, and the relevant Waste Transfer Note arranged.

Do not mix refrigerants in recovery units and especially not in cylinders. If compressors or compressor oils are to be removed, ensure that they have been evacuated to an acceptable level to make certain that flammable refrigerant does not remain within the lubricant.

The evacuation process shall be carried out prior to returning the compressor to the suppliers.

Only electric heating to the compressor body shall be employed to accelerate this process. When oil is drained from a system, it shall be carried out safely.

CAUTION

Installation

- Always check for gas (refrigerant) leakage after installation or repair of unit.
 - Low refrigerant levels may cause failure of unit.
- Keep level even when installing the unit.
 - To avoid vibration or water leakage.

- Use two or more people to lift and transport the unit.
 - Avoid personal injury.
- Do not install the unit in potentially explosive atmospheres.
- Connect the water for filling or refilling the heating system as specified by EN 1717/EN 61770 to avoid contamination of drinking water by return flow.

Operation

- Do not use the unit for special purposes, such as preserving foods, works of art, etc.
 - There is risk of damage or loss of property.
- Use a soft cloth to clean. Do not use harsh detergents, solvents, etc.
 - There is risk of fire, electric shock, or damage to the plastic parts of the unit.
- Do not step on or put anything on the unit.
 - There is risk of personal injury and failure of unit.
- Use a firm stool or ladder when cleaning or maintaining the unit.
 - Be careful and avoid personal 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 disconnected from its power source during service and when replacing parts.
- Means for disconnection must be incorporated in the fixed wiring in accordance with the wiring rules.
- The Installation kit supplied with the appliance are to be used and that old Installation kit should not be reused.

- 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. Installation work must be performed in accordance with the national wiring standards by authorized personnel only.
- This equipment shall be provided with a supply conductor complying with the national regulation.
- The instructions for service to be done by specialized personnel, mandated by the manufacturer or the authorized representative may be supplied in only one Community language which the specialized personnel understand.
- This appliance is not intended for use by persons (including children) with reduced physical, sensory or mental capabilities or lack of experience and knowledge, unless they have been given supervision or instruction concerning use of the appliance by a person responsible for their safety. Children should be supervised to ensure that they do not play with the appliance.

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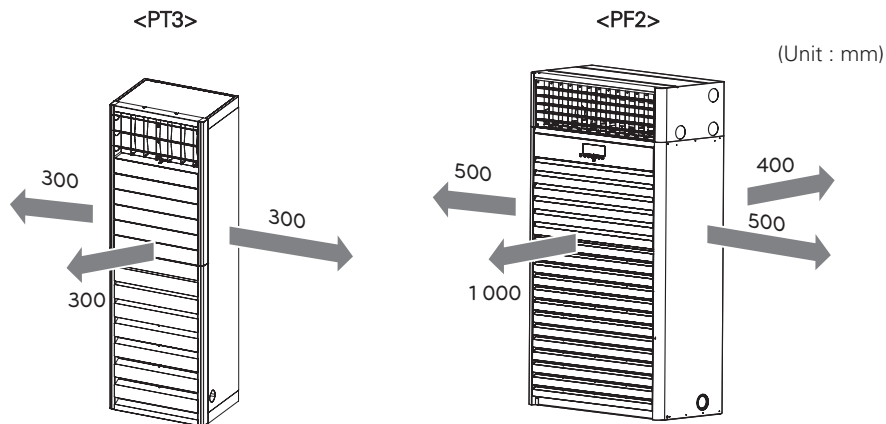
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INSTALLATION PLACE

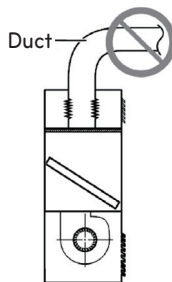
Select the best Location

- 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, or other obstacles.
- The indoor unit must keep the maintenance space.



CAUTION

- It's not possible to apply the duct indoor unit to this model.
- Do not disassemble, repair, or modify the product to install the duct. (This may cause performance degradation and burnout.)

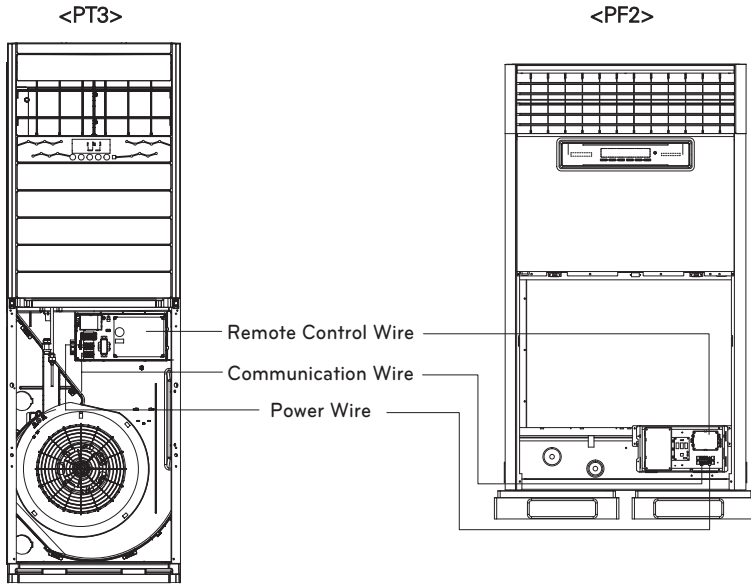


WIRING CONNECTION

Connecting the cable

* The inside and outside connecting cable can be connected after opening the inlet grille.

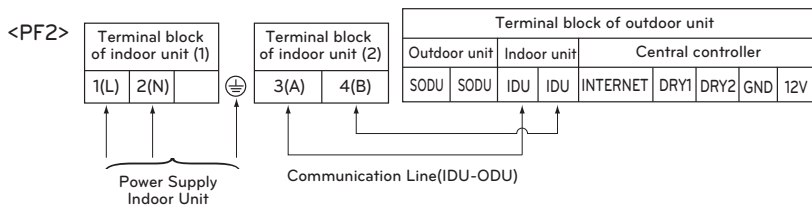
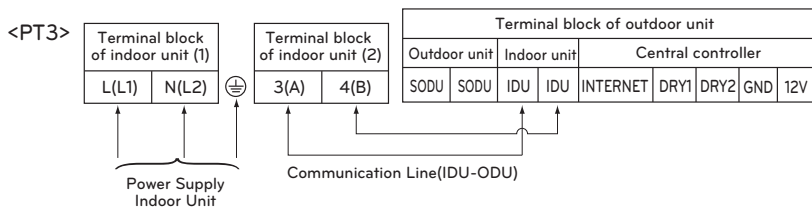
- 1 Open the inlet grille manually.
- 2 Open the control cover with screwdriver(⊕).



- 3 Secure the control cover to the original position with the screw.
- 4 Close the inlet grille.

Wiring Connection

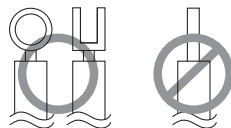
- Connect the wires to the terminals on the control board individually according to the outdoor unit connection.
- Ensure that the color of the wires of outdoor unit and the terminal No. are the same as those of indoor unit respectively.
- The installation of a residual current device(RCD) having a rated residual operating current not exceeding 30 mA is advisable.



- ※ Resistance measurement position for incorrect wiring.
- ※ Pipes and wires should be purchased separately for installation of the product.

WARNING

Use O-Ring or Y-Ring when connecting Power cable and Connecting cable.



CAUTION

The **connecting cable** connected to the indoor and outdoor unit should be complied with the following specifications (Rubber insulation, type H05RN-F approved by HAR or SAA). (This equipment shall be provided with a cable set complying with the national regulation).

NORMAL CROSS-SECTIONAL AREA 1.5 mm²

If the supply cord is damaged, it must be replaced by a special cord or assembly available from the manufacturer of its service agent. When the connection line between the indoor unit and outdoor unit and outdoor unit is over 40 m, connect the telecommunication line and power line separately.

WARNING

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

⚠ CAUTION

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

⚠ CAUTION

Be sure to test the power line and communication line for incorrect wiring before power is applied.

- 1) If the power line and communication line are swapped over, the product will be damaged.
- 2) Incorrect wiring confirmation test method:
Measure the resistance across the power terminals (L,N) using a multi meter.
 - Resistance value of a normal connection: 1 MΩ or more
 - Incorrect wiring resistance value: 500 MΩ or less

⚠ CAUTION

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

- 1) Never fail to have separate power specially for the air conditioner. As for the method of wiring, follow the circuit diagram pasted on the inside of control box cover.
- 2) Provide a circuit breaker switch between power source and the unit.
- 3) 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 give rise to burn-out of the wires.)
- 4) Confirm the 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.
- 7) Confirm that the cable thickness is as specified in the power sources specification. (Particularly note the relation between cable length and thickness.)
- 8) Do not install the leakage breaker in a place which is wet or moist. Water or moist may cause short circuit.
- 9) The following troubles would be caused by voltage drop-down.
 - Vibration of a magnetic switch, damage on the contact point there of, fuse breaking, disturbance to the normal function of a overload protection device.
 - Proper starting power is not given to the compressor.
- 10) Before applying power to the indoor unit, be sure to check for incorrect wiring of the power and communication lines.

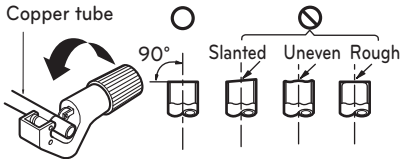
CONNECTING PIPES

Preparation of Pipe

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

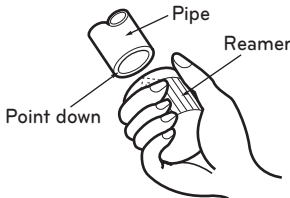
Cut the pipes and the cable

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



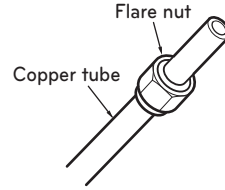
Burrs removal

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



Putting nut on

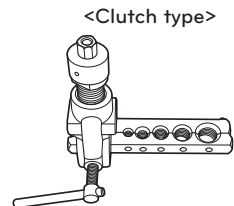
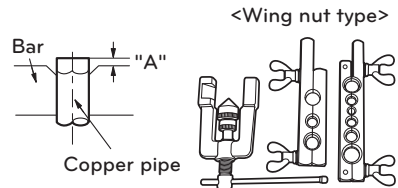
- Remove flare nuts attached to indoor and outdoor unit, then put them on pipe/tube having completed burr removal. (not possible to put them on after finishing flare work)



Flaring work

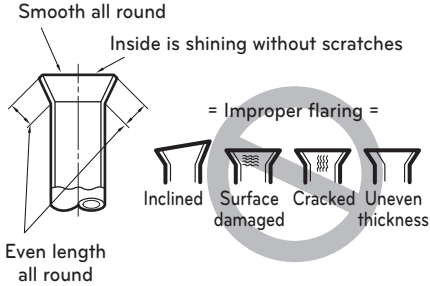
- 1 Firmly hold copper pipe in a bar with the dimension shown in below table.
- 2 Carry out flaring work with the flaring tool.

Pipe diameter inch (mm)	A inch (mm)	
	Wing nut type	Clutch type
Ø 1/4 (Ø 6.35)	0.04~0.05 (1.1~1.3)	0~0.02 (0~0.5)
Ø 3/8 (Ø 9.52)	0.06~0.07 (1.5~1.7)	
Ø 1/2 (Ø 12.7)	0.06~0.07 (1.6~1.8)	
Ø 5/8 (Ø 15.88)	0.06~0.07 (1.6~1.8)	
Ø 3/4 (Ø 19.05)	0.07~0.08 (1.9~2.1)	



Check

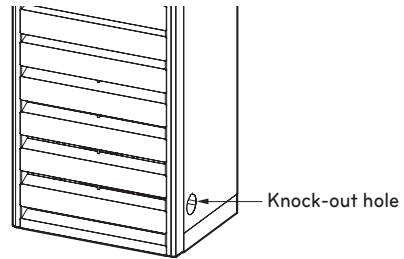
- 1 Compare the flared work with the figure by.
- 2 If a flared section is defective, cut it off and do flaring work again.



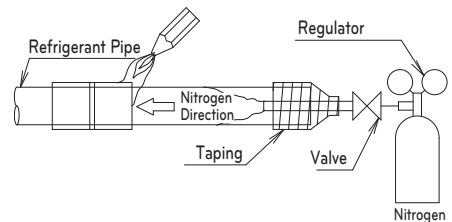
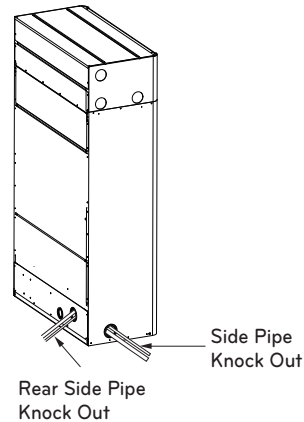
Welding

- Pipe connections can be done on the front side or on the side according to the installation environments.
- Be sure to let 1.0 kgf/cm² Nitrogen flow in the pipe when welding.
- If Nitrogen was not flown during welding, many oxidized membranes may form inside the pipe and disturb the normal operations of valves and condensers.

<PT3>



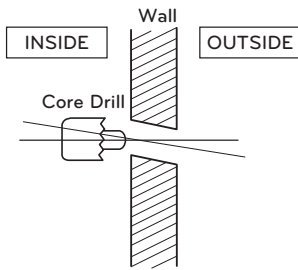
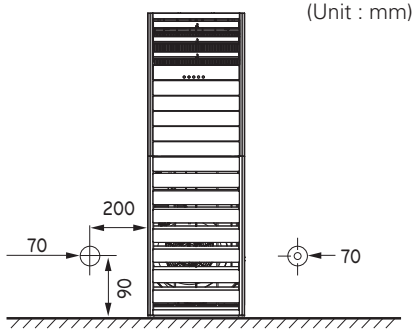
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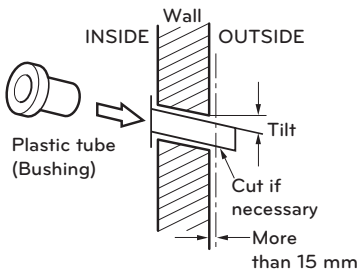
INSTALLATION

Indoor unit installation

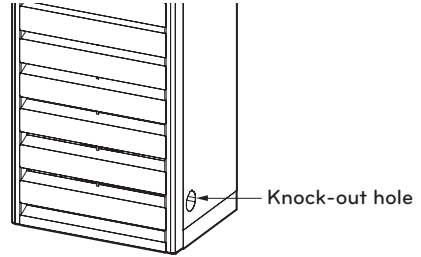
- 1 The mounting floor should be strong and solid enough to prevent it from vibration.
- 2 Drill the piping hole with 70 mm diameter hole-core drill at either the right or the left of indoor unit. The hole should be slightly slant to the outdoor side.



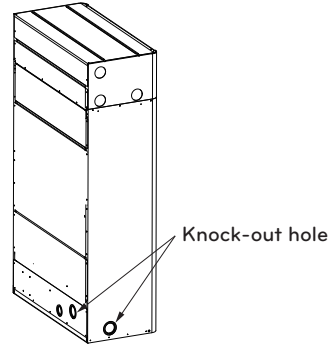
- 3 Insert the plastic tube through the hole.
- 4 Cut the extruded outside part of the plastic tube, if necessary.



<PT3>



<PF2>



- When using knock-out hole to route the piping, insert the plastic cover in knock-out hole in order to prevent the piping from damaged by sharp edge of the hole.

* The feature may be changed according to the type of model.

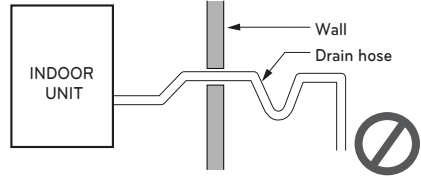
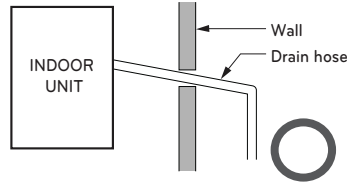
CAUTION

- Install the product to remain horizontal using the horizontal gauge.
- Do not damage cables when you install the indoor unit. There is risk of fire or electric shock.

Indoor Unit Drain Piping

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

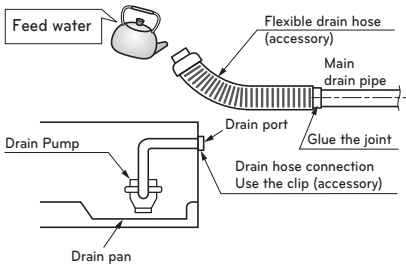
- Drain piping must have down-slope (1/50 to 1/100): be sure not to provide up-and-down slope to prevent reversal flow.
- During drain piping connection, be careful not to exert extra force on the drain port on the indoor unit.
- The outside diameter of the drain connection on the indoor unit is 32 mm.
 - Piping material: Polyvinyl chloride pipe inner diometes \varnothing 25 mm and pipe fittings.
- Be sure to install heat insulation on the drain piping.
 - Heat insulation material: Polyethylene foam with thickness more than 8 mm.



Drain test

The air conditioner uses a drain pump to drain water.

Use the following procedure to test the drain pump operation:



CAUTION

- The supplied flexible drain hose should not be strained. A strained hose may cause leakage of water.

DIP Switch Setting

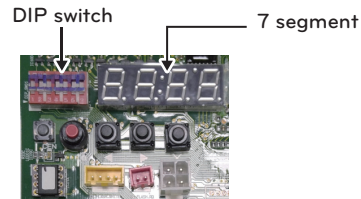
Outdoor Unit

In case that the products meet specific conditions, "Auto addressing" function can start automatically with the improved speed by turning the DIP switch #3 of the outdoor unit and resetting the power.

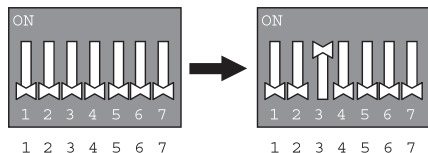
* Specific conditions:

- All names of the indoor units are ARNU****4
- The serial number of Multi V super IV (outdoor units) is after October 2013.

Outdoor Unit PCB



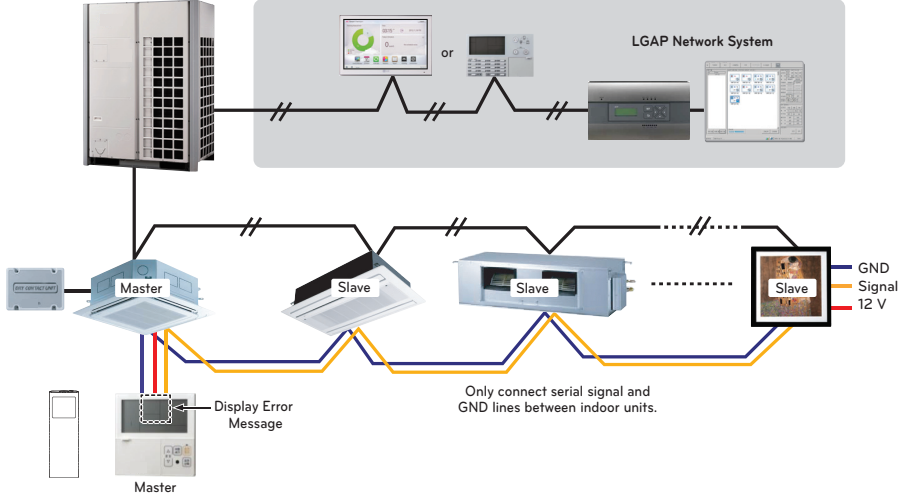
Outdoor Unit DIP Switch



Group Control Setting

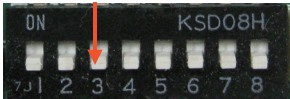
Group Control 1

■ Wired remote controller 1 + Standard Indoor Units

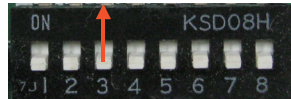


■ DIP Switch in PCB

① Master Setting
- No. 3 Off



② Slave Setting
- No. 3 On



Indoor Unit DIP Switch

Some products have no DIP switch on PCB. It is possible to set indoor units to Master or Slave by using the wireless remote controller instead of DIP switch.

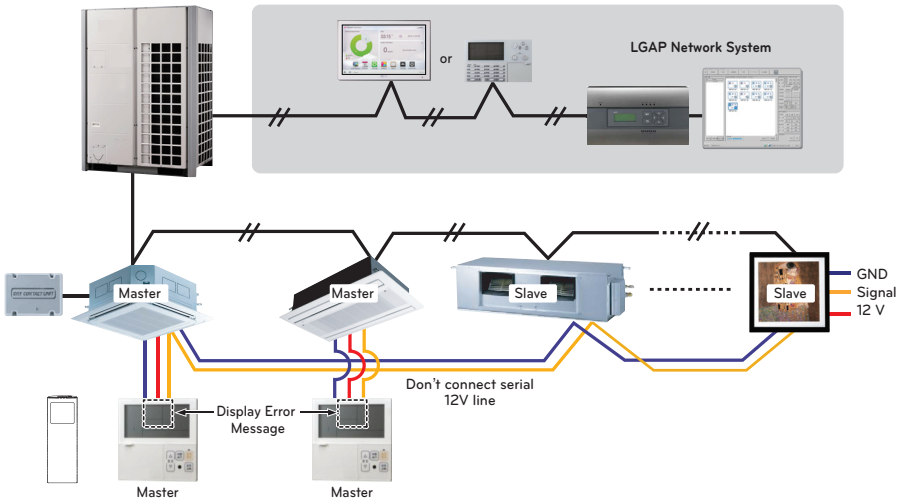
For the details of the setting, please refer to the manual of the wireless remote controller.

- 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 that any error occurs at indoor unit, the error code is displayed on the wired remote controller.
It is possible to control the other indoor units except the error units.

- * It is possible to connect indoor units since Feb. 2009.
- * It can be the cause of malfunctions when there is no setting of master and slave.
- * In case of Group Control, it is possible to use following functions.
 - Selection of operation, stop or mode
 - Temperature setting and room temperature check
 - Current time change
 - Control of flow rate (High/Middle/Low)
 - Reservation settings
 - It is not possible at some functions.

Group Control 2

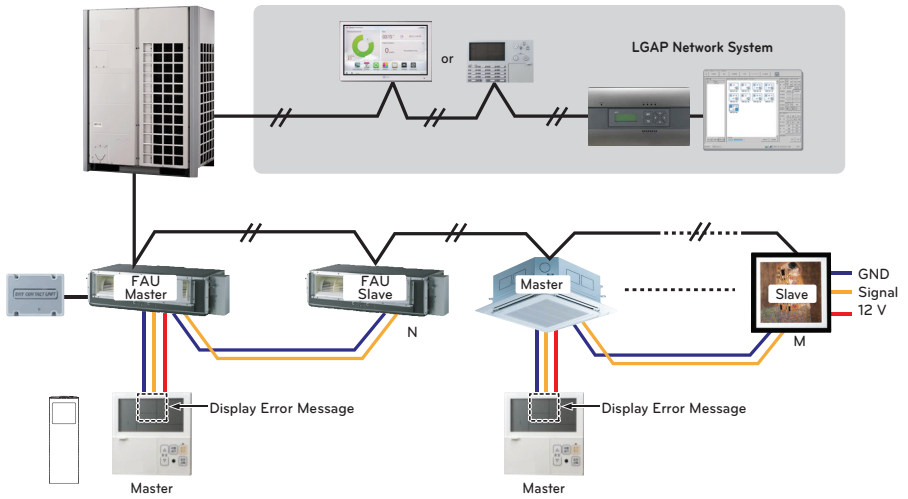
■ Wired remote controllers + Standard Indoor Units



- * It is possible to control 16 indoor units(Max.) with the master wired remote control.
- * Other than those, it is same with the Group Control 1.

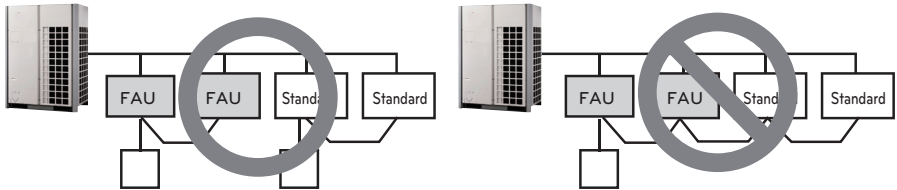
Group Control 3

■ Mixture connection with indoor units and Fresh Air Intake Unit



* In case of connecting with standard indoor unit and Fresh Air Intake Unit, separate Fresh Air Intake Unit with standard units. ($N, M \leq 16$) (Because setting temperature are different.)

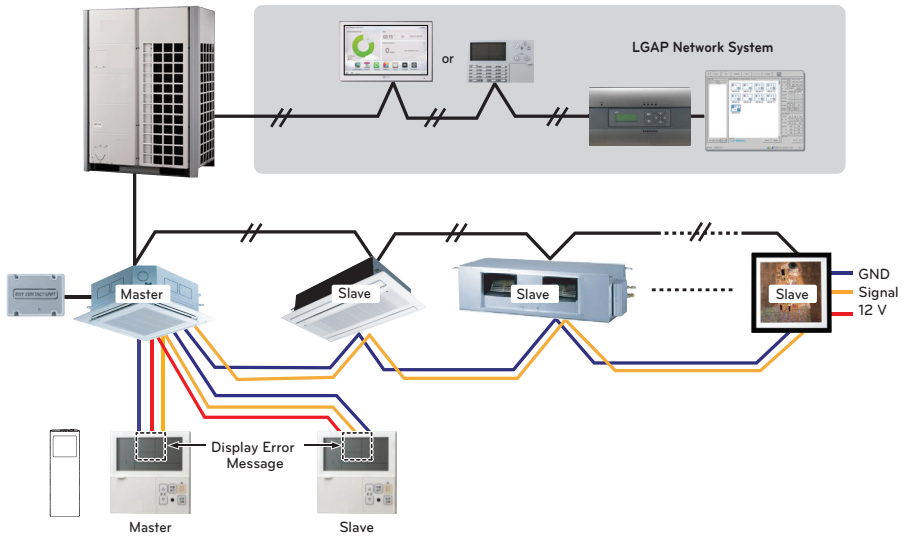
* Other than those, it is same with Group Control 1.



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

2 Remote Control

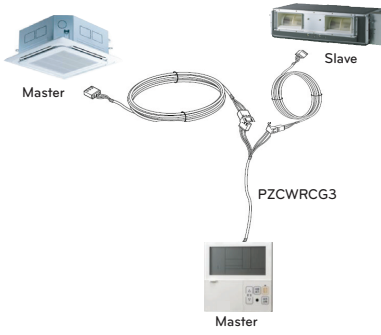
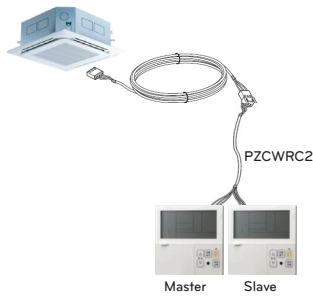
■ Wired remote controller 2 + Indoor unit 1



- 1 It is possible to connect two wired remote controllers (Max.) with one indoor unit.
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.
- 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 that any error occurs at indoor unit, the error code is displayed on the wired remote controller.
- 6 There isn't limits of indoor unit function.

Accessories for group control setting

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

Indoor unit 2 EA + Wired remote controller 1 EA	Indoor unit 1 EA + Wired remote controller 2 EA
<p>* PZCWRCG3 cable used for connection</p> 	<p>* PZCWRC2 cable used for connection</p> 



CAUTION

Apply totally enclosed noncombustible conduit in case of local building code Requiring plenum cable usage.

Airborne Noise Emission

The A-weighted sound pressure emitted by this product is below 70 dB.

** The noise level can vary depending on the site.

The figures quoted are emission level and are not necessarily safe working levels. Whilst there is a correlation between the emission and exposure levels, this cannot be used reliably to determine whether or not further precautions are required. Factors that influence the actual level of exposure of the workforce include the characteristics of the work room and the other sources of noise, i.e. the number of equipment and other adjacent processes and the length of time for which an operator is exposed to the noise. Also, the permissible exposure level can vary from country to country. This information, however, will enable the user of the equipment to make a better evaluation of the hazard and risk.

Limiting concentration

Limiting concentration is the limit of Freon gas concentration where immediate measures can be taken without hurting the human body when refrigerant leaks in the air. The limiting concentration shall be described in the unit of kg/m^3 (Freon gas weight per unit air volume) for facilitating calculation.

Limiting concentration: 0.44 kg/m^3 (R410A)
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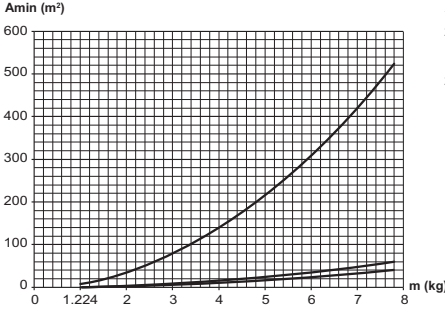
■ Calculate refrigerant concentration

$$\text{Refrigerant concentration} = \frac{\text{Total amount of replenished refrigerant in refrigerant facility (kg)}}{\text{Capacity of smallest room where indoor unit is installed (m}^3\text{)}}$$

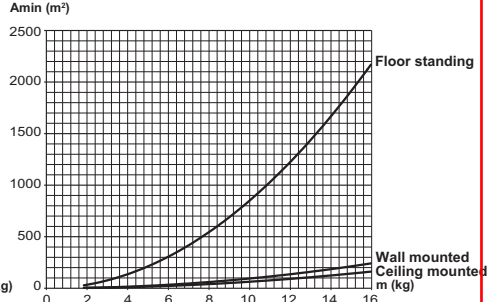
Minimum floor area (for R32)

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

IEC 60335-2-40:2013+A1:2016 Edition 5.1



IEC 60335-2-40:2018 Edition 6.0.



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

IEC 60335-2-40:2013+A1: 2016 Edition 5.1 IEC 60335-2-40: 2018 Edition 6.0. IEC 60335-2-40:2013+A1: 2016 Edition 5.1 IEC 60335-2-40: 2018 Edition 6.0. IEC 60335-2-40:2013+A1: 2016 Edition 5.1 IEC 60335-2-40: 2018 Edition 6.0.

Floor standing		Floor standing		Wall mounted		Wall mounted		Ceiling Mounted		Ceiling Mounted	
m (kg)	Amin (m ²)	m (kg)	Amin (m ²)	m (kg)	Amin (m ²)	m (kg)	Amin (m ²)	m (kg)	Amin (m ²)	m (kg)	Amin (m ²)
< 1.224	-	< 1.842	-	< 1.224	-	< 1.842	-	< 1.224	-	< 1.842	-
1.224	12.9	1.842	28.88	1.224	1.43	1.842	4.44	1.224	0.956	1.842	3.64
1.4	16.82	2.0	34.04	1.4	1.87	2.0	4.83	1.4	1.25	2.0	3.95
1.6	21.97	2.2	41.19	1.6	2.44	2.2	5.31	1.6	1.63	2.2	4.34
1.8	27.80	2.4	49.02	1.8	3.09	2.4	5.79	1.8	2.07	2.4	4.74
2.0	34.32	2.6	57.53	2.0	3.81	2.6	6.39	2.0	2.55	2.6	5.13
2.2	41.53	2.8	66.72	2.2	4.61	2.8	7.41	2.2	3.09	2.8	5.53
2.4	49.42	3.0	76.60	2.4	5.49	3.0	8.51	2.4	3.68	3.0	5.92
2.6	58.00	3.2	87.15	2.6	6.44	3.2	9.68	2.6	4.31	3.2	6.48
2.8	67.27	3.4	98.39	2.8	7.47	3.4	10.93	2.8	5.00	3.4	7.32
3.0	77.22	3.6	110.30	3.0	8.58	3.6	12.26	3.0	5.74	3.6	8.20
3.2	87.86	3.8	122.90	3.2	9.76	3.8	13.66	3.2	6.54	3.8	9.14
3.4	99.19	4.0	136.17	3.4	11.02	4.0	15.13	3.4	7.38	4.0	10.13
3.6	111.20	4.2	150.13	3.6	12.36	4.2	16.68	3.6	8.27	4.2	11.17
3.8	123.90	4.4	164.77	3.8	13.77	4.4	18.31	3.8	9.22	4.4	12.26
4.0	137.29	4.6	180.09	4.0	15.25	4.6	20.01	4.0	10.21	4.6	13.40
4.2	151.36	4.8	196.09	4.2	16.82	4.8	21.79	4.2	11.26	4.8	14.59
4.4	166.12	5.0	212.77	4.4	18.46	5.0	23.64	4.4	12.36	5.0	15.83
4.6	181.56	5.2	230.13	4.6	20.17	5.2	25.57	4.6	13.50	5.2	17.12
4.8	197.70	5.4	248.18	4.8	21.97	5.4	27.58	4.8	14.70	5.4	18.46
5.0	214.51	5.6	266.90	5.0	23.83	5.6	29.66	5.0	15.96	5.6	19.85
5.2	232.02	5.8	286.30	5.2	25.78	5.8	31.81	5.2	17.26	5.8	21.30
5.4	250.21	6.0	306.39	5.4	27.80	6.0	34.04	5.4	18.61	6.0	22.79
5.6	269.09			5.6	29.90			5.6	20.01		
5.8	288.65			5.8	32.07			5.8	21.47		
6.0	308.90			6.0	34.32			6.0	22.98		



Eco design requirement

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