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## Safety precautions

Carefully follow the precautions listed below because they are essential to guarantee the safety of the equipment.



### WARNING

- Always disconnect the air conditioner from the power supply before servicing it or accessing its internal components.
- Verify that installation and testing operations are performed by qualified personnel.
- Verify that the air conditioner is not installed in an easily accessible area.

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### General information

- ▶ Carefully read the content of this manual before installing the air conditioner and store the manual in a safe place in order to be able to use it as reference after installation.
- ▶ For maximum safety, installers should always carefully read the following warnings.
- ▶ Store the operation and installation manual in a safe location and remember to hand it over to the new owner if the air conditioner is sold or transferred.
- ▶ This manual explains how to install an indoor unit with a split system with two SAMSUNG units. The use of other types of units with different control systems may damage the units and invalidate the warranty. The manufacturer shall not be responsible for damages arising from the use of non compliant units.
- ▶ The manufacturer shall not be responsible for damage originating from unauthorized changes or the improper connection of electric and requirements set forth in the "Operating limits" table, included in the manual, shall immediately invalidate the warranty.
- ▶ The air conditioner should be used only for the applications for which it has been designed: the indoor unit is not suitable to be installed in areas used for laundry.
- ▶ Do not use the units if damaged. If problems occur, switch the unit off and disconnect it from the power supply.
- ▶ In order to prevent electric shocks, fires or injuries, always stop the unit, disable the protection switch and contact SAMSUNG's technical support if the unit produces smoke, if the power cable is hot or damaged or if the unit is very noisy.
- ▶ Always remember to inspect the unit, electric connections, refrigerant tubes and protections regularly. These operations should be performed by qualified personnel only.
- ▶ The unit contains moving parts, which should always be kept out of the reach of children.
- ▶ Do not attempt to repair, move, alter or reinstall the unit. If performed by unauthorized personnel, these operations may cause electric shocks or fires.
- ▶ Do not place containers with liquids or other objects on the unit.
- ▶ All the materials used for the manufacture and packaging of the air conditioner are recyclable.
- ▶ The packing material and exhaust batteries of the remote controller(optional) must be disposed of in accordance with current laws.
- ▶ The air conditioner contains a refrigerant that has to be disposed of as special waste. At the end of its life cycle, the air conditioner must be disposed of in authorized centers or returned to the retailer so that it can be disposed of correctly and safely.

## Installing the unit

**IMPORTANT:** When installing the unit, always remember to connect first the refrigerant tubes, then the electrical lines.

Always disassemble the electric lines before the refrigerant tubes.

- ▶ Upon receipt, inspect the product to verify that it has not been damaged during transport. If the product appears damaged, DO NOT INSTALL it and immediately report the damage to the carrier or retailer (if the installer or the authorized technician has collected the material from the retailer.)
- ▶ After completing the installation, always carry out a functional test and provide the instructions on how to operate the air conditioner to the user.
- ▶ Do not use the air conditioner in environments with hazardous substances or close to equipment that release free flames to avoid the occurrence of fires, explosions or injuries.
- ▶ Our units should be installed in compliance with the spaces shown in the installation manual, to ensure accessibility from both sides and allow repairs or maintenance operations to be carried out. The unit's components should be accessible and easy to disassemble without endangering people and objects.

For this reason, when provisions of the installation manual are not complied with, the cost required to access and repair the units (in SAFETY CONDITIONS, as set out in prevailing regulations) with harnesses, ladders, scaffolding or any other elevation system will NOT be considered part of the warranty and will be charged to the end customer.

## Power supply line, fuse or circuit breaker

- ▶ Always make sure that the power supply is compliant with current safety standards. Always install the air conditioner in compliance with current local safety standards.
- ▶ Always verify that a suitable grounding connection is available.
- ▶ Verify that the voltage and frequency of the power supply comply with the specifications and that the installed power is sufficient to ensure the operation of any other domestic appliance connected to the same electric lines.
- ▶ Always verify that the cut-off and protection switches are suitably dimensioned.
- ▶ Verify that the air conditioner is connected to the power supply in accordance with the instructions provided in the wiring diagram included in the manual.
- ▶ Always verify that electric connections (cable entry, section of leads, protections...) are compliant with the electric specifications and with the instructions provided in the wiring scheme. Always verify that all connections comply with the standards applicable to the installation of air conditioners.
- ▶ Devices disconnected from the power supply should be completely disconnected in the condition of overvoltage category.



CAUTION

- ◆ Make sure that you earth the cables.
  - Do not connect the earth wire to the gas pipe, water pipe, lighting rod or telephone wire. If earthing is not complete, electric shock or fire may occur.
- ◆ Install the circuit breaker.
  - If the circuit breaker is not installed, electric shock or fire may occur.
- ◆ Make sure that the condensed water dripping from the drain hose runs out properly and safely.
- ◆ Install the power cable and communication cable of the indoor and outdoor unit at least 1m away from the electric appliance.
- ◆ Install the indoor unit away from lighting apparatus using the ballast.
  - If you use the wireless remote control, reception error may occur due to the ballast of the lighting apparatus.
- ◆ Do not install the air conditioner in following places.
  - Place where there is mineral oil or arsenic acid. Resin parts flame and the accessories may drop or water may leak. The capacity of the heat exchanger may reduce or the air conditioner may be out of order.
  - The place where corrosive gas such as sulfurous acid gas generates from the vent pipe or air outlet. The copper pipe or connection pipe may corrode and refrigerant may leak.
  - The place where there is a machine that generates electromagnetic waves. The air conditioner may not operate normally due to control system.
  - The place where there is a danger of existing combustible gas, carbon fiber or flammable dust. The place where thinner or gasoline is handled. Gas may leak and it may cause fire.

## Preparation for installation

When deciding on the location of the air conditioner with the owner, the following restrictions must be taken into account.

### General

**Do NOT install the air conditioner in a location where it will come into contact with the following elements :**

- ◆ Combustible gases
- ◆ Saline air
- ◆ Machine oil
- ◆ Sulphide gas
- ◆ Special environmental conditions


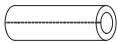
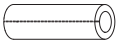
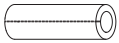






If you must install the unit in such conditions, first consult your dealer.

**Avoid installing the air conditioner :**

- ◆ In areas where it is exposed to direct sunlight. Close to heat sources.
- ◆ In damp areas or locations where it could come into contact with water. (for example rooms used for laundry)
- ◆ In areas where curtains and furniture could affect the supply and discharge of air.
- ◆ Without leaving the required minimum space around the unit. (as shown in the drawing)
- ◆ In scarcely ventilated areas.
- ◆ On surfaces that are unable to support the weight of the unit without deforming, breaking or causing vibrations during the use of the air conditioner.
- ◆ In a position that does not enable the condensate drainage pipe to be correctly installed. (at the end of the installation. It is always essential to check the efficiency of the drainage system)

### Accessories

- ◆ The following accessories are supplied with the indoor unit.  
The type and quantity may differ depending on the specifications.

Pattern sheet (1) 	Thermal insulation sponge A(1) 	Thermal insulation sponge B (1) 	Thermal insulation sponge C (1) 	Flexible hose clamp (1) 
Flexible hose (1) 	Cable-tie(6) 	user manual (1) 	Installation (1) manual 	Conduit bracket (1) 

## Deciding on where to install the indoor unit

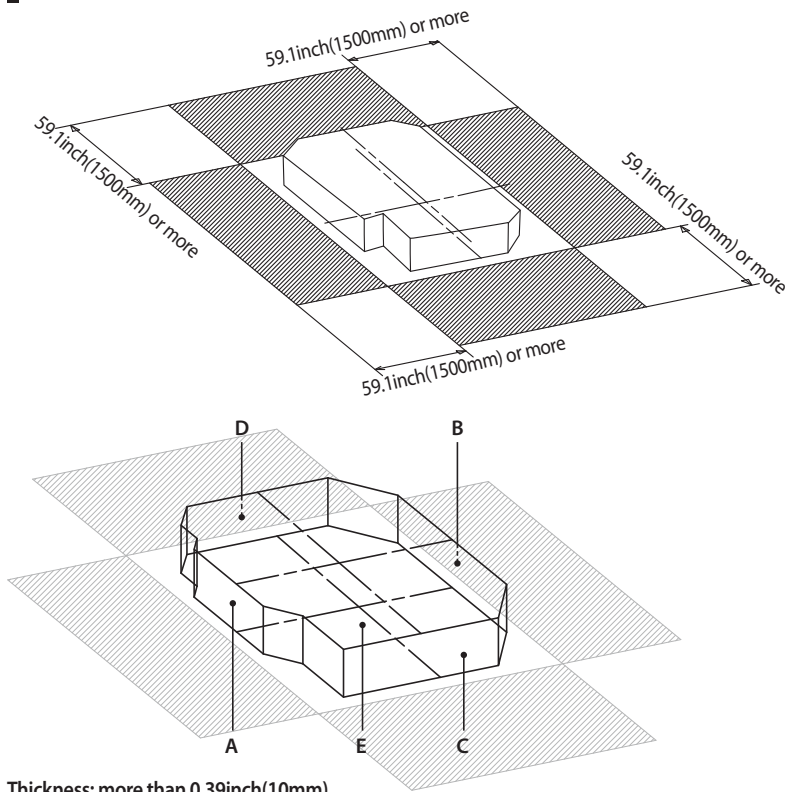
### Indoor unit

- ◆ There must be no obstacles near the air inlet and outlet.
- ◆ Install the indoor unit on a ceiling that can support its weight.
- ◆ Maintain sufficient clearance around the indoor unit.
- ◆ Make sure that the water dripping from the drain hose runs away correctly and safely.
- ◆ The indoor unit must be installed in this way, that they are out of public access. (Not touchable by the users)



• If you install the cassette type indoor unit on the ceiling with humidity over 80%, you must apply extra 10mm of polyethylene foam or other insulation with similar material on the body of the indoor unit.

### Space requirements for indoor unit



Thickness: more than 0.39inch(10mm)

unit: inch (mm)

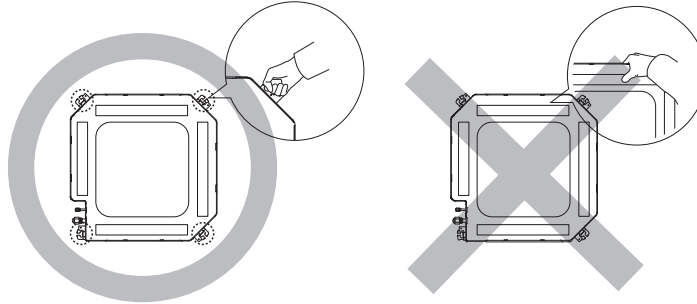
A	B	C	D	E
15.75*7.48 (400*190)	15.75*7.48 (400*190)	15.75*7.48 (400*190)	15.75*7.48 (400*190)	21.65*21.65 (550*550)

- ◆ Insulate the end of the pipe and some curved area by using separate insulator.
- ◆ Insulate the discharge and suction part at the same time when you insulate connection duct.

## Deciding on where to install the indoor unit

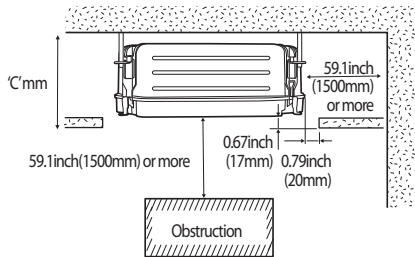


- The units must be installed according to distances declared, in order to permit accessibility from each side, either to guarantee correct operation of maintenance or repairing products.  
The unit's parts must be reachable and removable completely under safety condition (for people or things).



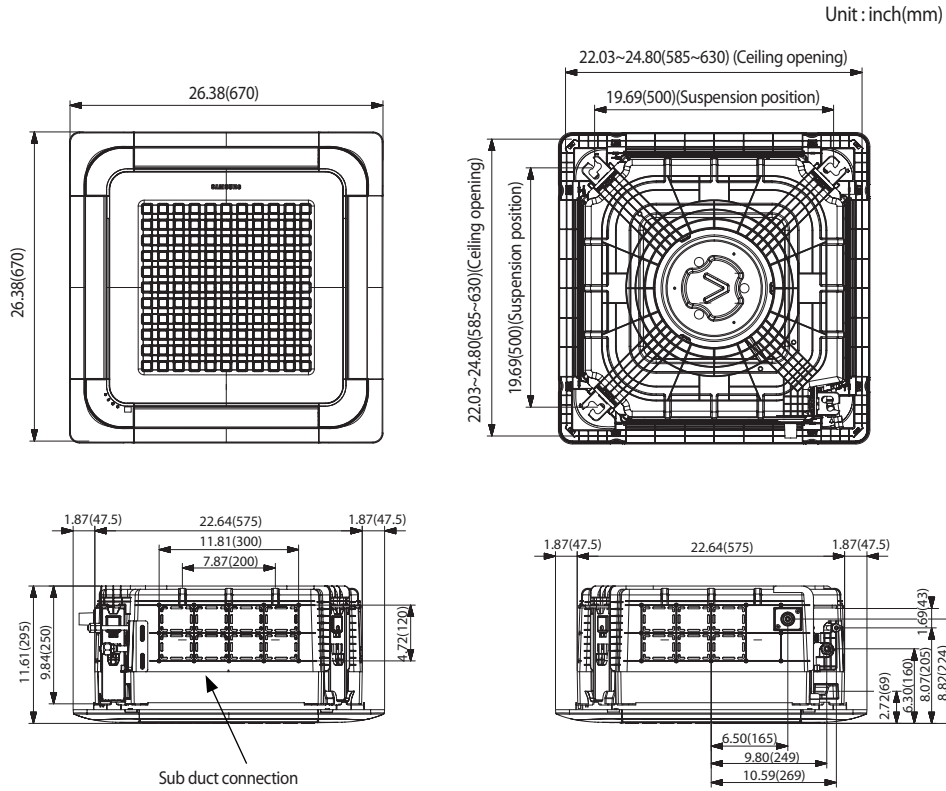
- \*The appearance of the unit maybe different from the picture depending on the model.
- Do not hold the discharge while carrying the indoor unit to avoid the possibility of breakage. You must hold the hanger plate on the corner and carry the indoor unit.

### Required space for an indoor unit installation



C	11.69"(297mm)
Net dimension	22.64" <sup>11</sup> *9.84" <sup>11</sup> *22.64" <sup>11</sup> (575mm*250mm*575mm)

## Drawing of the indoor unit



ENGLISH

		MODEL	
		**009/012**	**018**
Net dimension	inch(mm)	22.64x9.84x22.64 (575x250x575)	22.64x9.84x22.64 (575x250x575)
Net weight	lb(kg)	25.13 (11.4)	26.01 (11.8)
Liquid pipe connection		ø1/4"(6.35mm)	
Gas pipe connection		ø3/8"(9.52mm)	ø1/2"(12.70mm)
Drain Hose connection	inch(mm)	OD : Ø1(25) , ID : Ø0.79(20)	

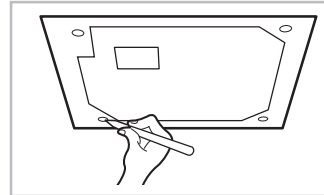
# Indoor unit installation

When deciding on the location of the air conditioner with the owner, the following restrictions must be taken into account.

1. Determine the position of the pipe and drain hose hole as seen in the picture and drill the hole with an inner diameter of 2.56inch(65mm) so that it slants slightly downwards.



• Since the diagram is made of paper, it may shrink or stretch slightly due to temperature or humidity. For this reason, before drilling the holes maintain the correct dimensions between the markings.

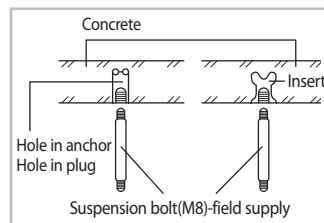


2. Insert bolt anchors, use existing ceiling supports or construct a suitable support as shown in figure.

3. Install the suspension bolts depending on the ceiling type.



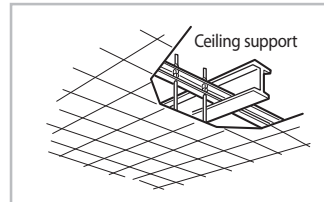
• Ensure that the ceiling is strong enough to support the weight of the indoor unit. Before hanging the unit, test the strength of each attached suspension bolt.  
 • If the length of suspension bolt is more than 4.9ft(1.5m), it is required to prevent vibration.  
 • The distance between a suspension bolt and the top of bracket (in indoor unit) not exceed 0.98inch(25mm)(**between indoor pipe and hanger plate**).



4. Screw eight nuts to the suspension bolts making space for hanging the indoor unit.



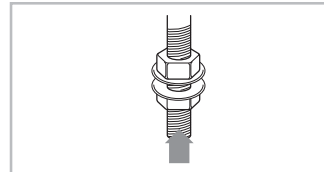
• You must install all the suspension rods.  
 • It is important to leave sufficient space in the false ceiling to allow access for maintenance or repairs to the drainage pipe connection, the refrigerant pipe connection, or to remove the unit if necessary.



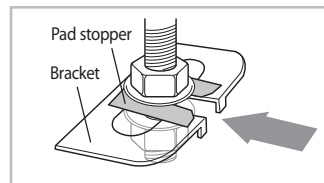
5. Hang the indoor unit to the suspension bolts between two nuts.



• Piping must be laid and connected inside the ceiling when suspending the unit. If the ceiling is already constructed, lay the piping into position for connection to the unit before placing the unit inside the ceiling.

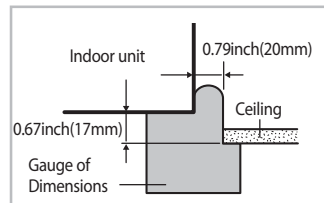


6. Screw the nuts to suspend the unit. Cut a pad stopper and place it on the bracket at this time.



7. Adjust the unit to the appropriate position considering the installation area for the front panel.

- 1) Place the pattern sheet on the indoor unit.
- 2) Adjust a space between the ceiling and the indoor unit by using the gauge of dimensions.
- 3) Fix the indoor unit securely after adjusting level of the unit by using a leveler.
- 4) Remove the pattern sheet, connect the other cables and install the front panel.





## Purging the unit

From factory the unit is supplied and set with a pre-charge of nitrogen gas. (insert gas) Therefore, all insert gas must be purged before connecting the assembly piping.

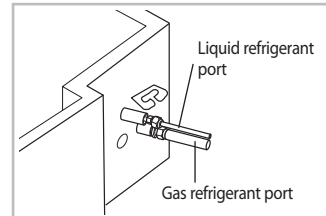
**Unscrew the pinch pipe at the end of each refrigerant pipe.**

RESULT : All inert gas escapes from the indoor unit.



NOTE

- To prevent dirt or foreign objects from getting into the pipes during installation, do NOT remove the pinch pipe completely until you are ready to connect the piping.



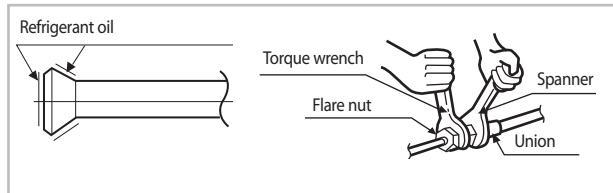
ENGLISH

## Connecting the refrigerant pipe

There are two refrigerant pipes of different diameters :

- ◆ A smaller one for the liquid refrigerant
- ◆ A larger one for the gas refrigerant
- ◆ The inside of copper pipe must be clean & has no dust

1. Remove the pinch pipe on the pipes and connect the assembly pipes to each pipe, tightening the nuts, first manually and then with a torque wrench, a spanner applying the following torque.

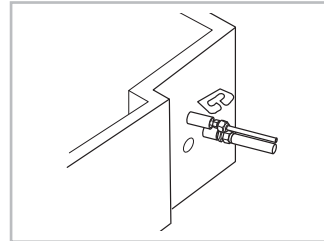


Outer Diameter (D)	Torque ft·lb(N·m)
ø1/4inch(6.35mm)	13.3(18)
ø3/8inch(9.52mm)	31.0(42)
ø1/2inch(12.70mm)	40.6(55)
ø5/8inch(15.88mm)	47.9(65)
ø3/4inch(19.05mm)	73.8(100)



- If the pipes must be shortened refer to page 11.

2. Must use insulator which is thick enough to cover the refrigerant tube to protect the condensate water on the outside of pipe falling onto the floor and the efficiency of the unit will be better.
3. Cut off any excess foam insulation.
4. Be sure that there must be no crack or wave on the bended area.
5. It would be necessary to double the insulation thickness(10mm or more) to prevent condensation even on the insulator when if the installed area is warm and humid.



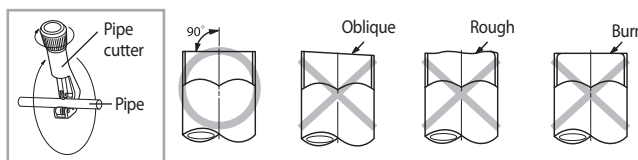
6. Do not use joints or extensions for the pipes that connect the indoor and outdoor unit. The only permitted connections are those for which the units are designed.



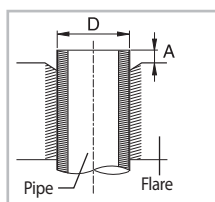
- Connect the indoor and outdoor units using pipes with flared connections(not supplied). For the lines, use insulated, unwelded, degreased and deoxidized copper pipe (Cu DHP type to ISO 1337 or UNI EN 12735-1), suitable for operating pressures of at least 4200kPa and for a burst pressure of at least 20700kPa. Copper pipe for hydro-sanitary applications is completely unsuitable.
- For sizing and limits (height difference, line length, max. bends, refrigerant charge, etc.) see the outdoor unit installation manual.
- All refrigerant connection must be accessible, in order to permit either unit maintenance or removing it completely.

## Cutting/Flaring the pipes

1. Make sure that you have the required tools available. (pipe cutter, reamer, flaring tool and pipe holder)
2. If you wish to shorten the pipes, cut it with a pipe cutter, taking care to ensure that the cut edge remains at a 90° angle with the side of the pipe. Refer to the illustrations below for examples of edges cut correctly and incorrectly.

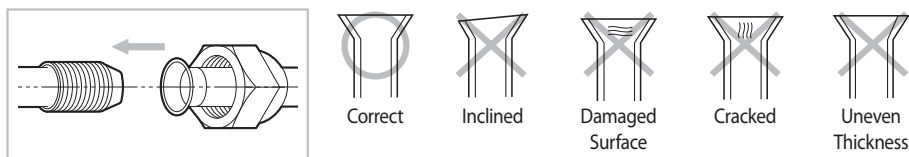


3. To prevent any gas from leaking out, remove all burrs at the cut edge of the pipe, using a reamer.
4. Slide a flare nut on to the pipe and modify the flare.



Outer Diameter (D)	Depth (A)
ø1/4inch(6.35mm)	0.051inch(1.3mm)
ø3/8inch(9.52mm)	0.071inch(1.8mm)
ø1/2inch(12.70mm)	0.079inch(2.0mm)
ø5/8inch(15.88mm)	0.087inch(2.2mm)
ø3/4inch(19.05mm)	0.087inch(2.2mm)

5. Check that the flaring is correct, referring to the illustrations below for examples of incorrect flaring.



6. Align the pipes and tighten the flare nuts first manually and then with a torque wrench, applying the following torque.

Valve	Flare nut		Valve cap		Pressure port cap		Valve needle		Pressure port	
	Wrench [inch(mm)]	ft·lb (N·m)	Wrench [inch(mm)]	ft·lb (N·m)	Wrench [inch(mm)]	ft·lb (N·m)	Wrench [inch(mm)]	ft·lb (N·m)	Wrench [inch(mm)]	ft·lb (N·m)
1/4"	0.67(17)	13.3(18)	0.91(23)	14.8(20)	0.71(18)	11.8~13.3(16~18)	Allen(hex.) 0.2(5)	6.6(9)	-	0.25(0.34)
3/8"	0.87(22)	31.0(42)	0.91(23)	14.8(20)	0.71(18)	11.8~13.3(16~18)	Allen(hex.) 0.2(5)	6.6(9)	-	0.25(0.34)
1/2"	1.02(26)	40.6(55)	1.14(29)	29.5(40)	0.71(18)	11.8~13.3(16~18)	Allen(hex.) 0.2(5)	9.6(13)	-	0.25(0.34)
5/8"	1.14(29)	47.9(65)	1.14(29)	29.5(40)	0.71(18)	11.8~13.3(16~18)	Allen(hex.) 0.2(5)	9.6(13)	-	0.25(0.34)
3/4"	1.42(36)	73.8(100)	1.50(38)	29.5(40)	0.71(18)	11.8~13.3(16~18)	Allen(hex.) 0.2(5)	9.6(13)	-	0.25(0.34)



- If the pipes require brazing ensure that OFN (Oxygen Free Nitrogen) is flowing through the system.
- Nitrogen blowing pressure range is 0.02 ~ 0.05MPa.

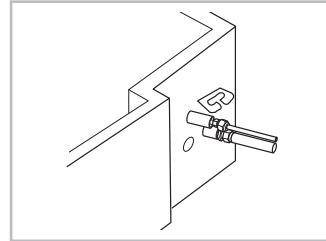
## Performing leak test & insulation

### Leak test

To identify potential gas leaks on the indoor unit, inspect the connection area of each refrigerant pipe using a leak detector for R-410A.

Before recreating the vacuum and recirculating the refrigerant gas, it is advisable to pressurize the whole system with nitrogen (using a cylinder with pressure reducer) at a pressure above 40 bar in order to immediately detect leaks on the refrigerant fittings.

Made vacuum for 15 minutes and pressurising system with nitrogen.



- If the pipes require brazing ensure that OFN (Oxygen Free Nitrogen) is flowing through the system.

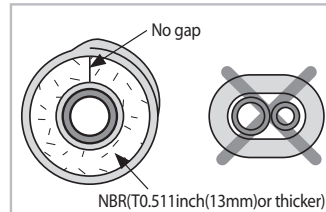
### Insulation

Once you have checked that there are no leaks in the system, you can insulate the piping and hose.

- 1 To avoid condensation problems, place T0.511 inch(13mm) or thicker Acrylonitrile Butadien Rubber separately around each refrigerant pipe.



- Always make the seam of pipes face upwards.



- 2 Wind insulating tape around the pipes and drain hose avoiding to compress the insulation too much.
- 3 Finish wrapping insulating tape around the rest of the pipes leading to the outdoor unit.
- 4 The pipes and electrical cables connecting the indoor unit with the outdoor unit must be fixed to the wall with suitable ducts.



- All refrigerant connection must be accessible, in order to permit either unit maintenance or removing it completely.

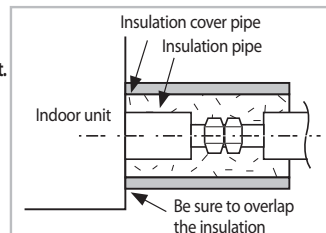
- 5 Select the insulation of the refrigerant pipe.

- ◆ Insulate the gas side and liquid side pipe referring to the thickness according to the pipe size.
- ◆ Indoor temperature of 86°F(30°C) and humidity of less than 85% is the standard condition.

If installing in a high humidity condition, use one grade thicker insulator by referring to the table below.

If installing in an unfavorable conditions, use thicker one.

- ◆ Insulator's heat-resistance temperature should be more than 248°F(120°C).



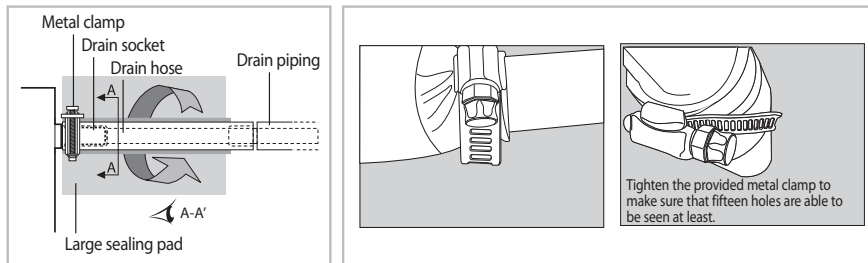
- Must fit tightly against body without any gap.

Pipe	Pipe size		Insulation Type (Heating/Cooling)				Remarks
			Standard [86°F(30°C), less than 85%]		High humidity [86°F(30°C), over 85%]		
	inch	mm	inch	mm	inch	mm	
Liquid pipe	Ø1/4~3/8	Ø6.35~9.52	9t	3/8	9t	3/8	Internal temperature is higher than 248°F(120°C)
	Ø1/2~3/4	Ø12.7~19.05	13t	1/2	13t	1/2	
Gas pipe	Ø1/4	Ø6.35	13t	1/2	19t	3/4	
	Ø3/8	Ø9.52	19t	3/4	25t	1	
	Ø1/2	Ø12.70					
	Ø5/8	Ø15.88					
Ø3/4	Ø19.05						

- ◆ When installing insulation in places and conditions below, use the same insulation that is used for high humidity conditions.
- <Geological condition>
- High humidity places such as shoreline, hot spring, near lake or river, and ridge (when the part of the building is covered by earth and sand.)
- <Operation purpose condition>
- Restaurant ceiling, sauna, swimming pool etc.
- <Building construction condition>
- The ceiling frequently exposed to moisture and cooling is not covered.
- e.g. The pipe installed at a corridor of a dormitory and studio or near an exit that opens and closes frequently.
- The place where the pipe is installed is highly humid due to the lack of ventilation system.

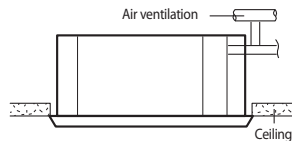
# Drainpipe and drain hose installation

- 1 Push the supplied drain hose as far as possible over the drain socket.
- 2 Tighten the metal clamp as shown in the picture.
- 3 Wrap the supplied large sealing pad over the metal clamp and drain hose to insulate and fix it with clamps.
- 4 Insulate the complete drain piping inside the building (field supply).  
If the drain hose cannot be sufficiently set on a slope, fit the hose with drain raising piping (field supply).
- 5 Push the drain hose up to insulation when connecting the drain hose to drain socket.

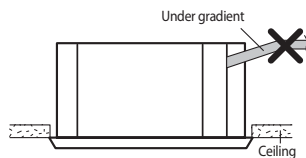


Check that the indoor unit is level with the ceiling by using the leveler.

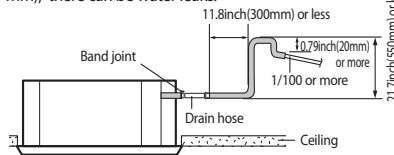
Install air ventilation to drain condensate water smoothly.



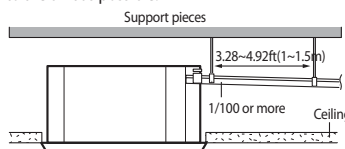
Do not give the hose and upward gradient after the connection port. This will cause water to flow backwards when the unit is stopped, resulting in water leaks.

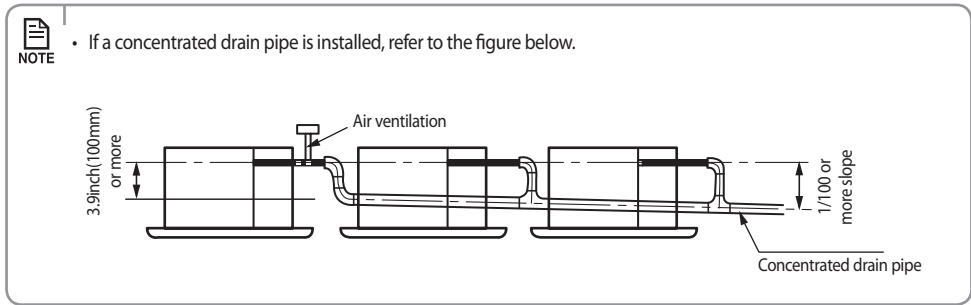


If it is necessary to increase the height of the drainpipe, install the drainpipe straightly within 11.8inch(300 mm) from the drain hose port. If it is raised higher than 21.7inch(550 mm), there can be water leaks.



Do not apply force to the piping on the unit side when connecting the drain hose. The hose should not be allowed to hang loose from its connection to the unit. Fasten the hose to a wall, frame or other support as close to the unit as possible.





### Testing the drainage

You should test the drainage after completing the installation. Prepare a little water about 2.0 liters.

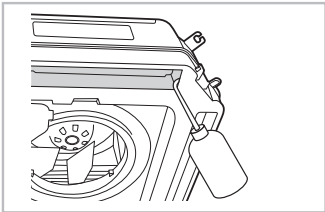
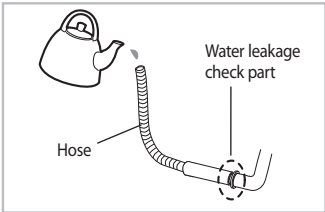
- 1 Turn the cover drain pump, then pull it out.
- 2 Pour water into the indoor unit as shown in figure.

**NOTE** • If you do not pour water inside the water supply intake, water may spill from the indoor unit.

- 3 Confirm that the water flows out through the drain hose.

**NOTE** • You can check the drainage only when the air conditioner is in cool mode.

- 4 Reassemble the cover drain pump.



## Installing DPM

When installing DPM, you should set 'DPM setting' to the outdoor unit.

If DPM model is not set, communication error may occur.

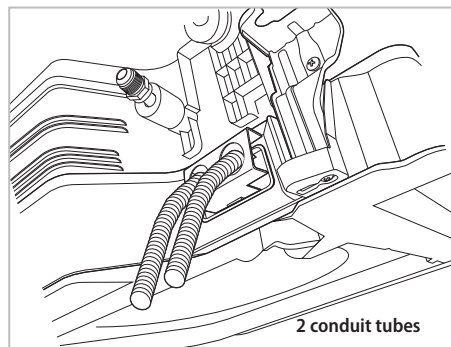
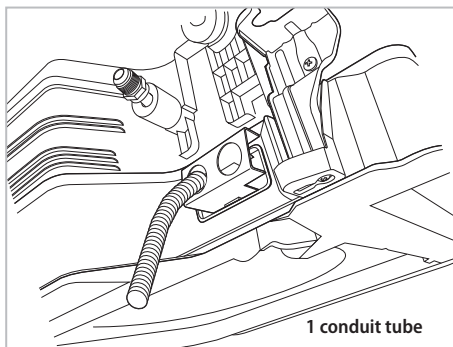
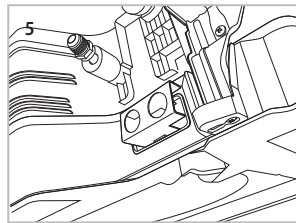
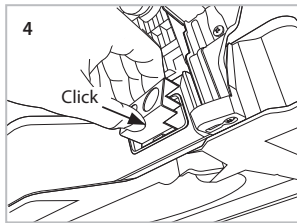
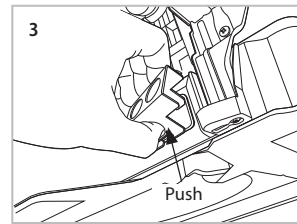
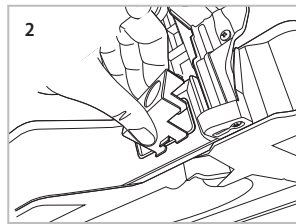
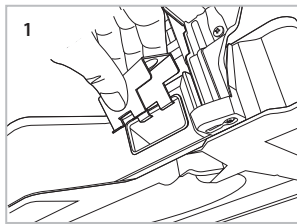
While the outdoor unit is tracking the indoor unit for one minute after the power supply is turned on, the operation may stop if the remote control reception signal of the installed indoor unit is different.

## Installing MULTI

If using a multi system, refer to the manual supplied with the outdoor unit.

## Bushing bracket installation

If the conduit tube is used, bushing bracket must be installed as shown in the picture to fix the conduit tube.





# Connecting the connection cord

If using a multi system, refer to the manual supplied with the outdoor unit.



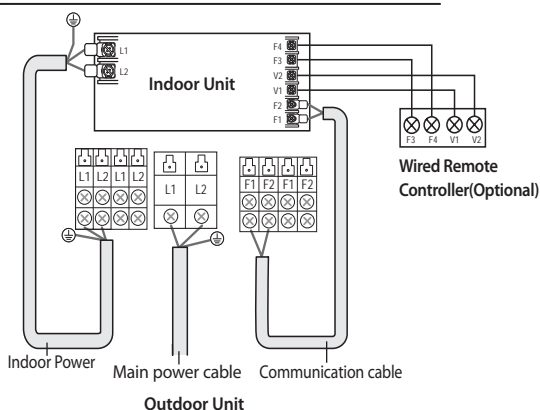
- Always remember to connect the refrigerant pipes before performing the electric connections.
- When disconnecting the system, always disconnect the electric cables before disconnecting the refrigerant pipes.
- Always remember to connect the air conditioner to the grounding system before performing the electric connections.

The indoor unit is powered by the outdoor unit by means of a H07 RN-F connection cable (or a more power model), with insulation in synthetic rubber and jacket in polychloroprene(neoprene), in accordance with the requirements of standard EN 60335-2-40.

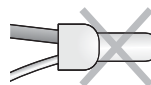
- Remove the screw on the electrical component box and remove the cover plate.
- Route the connection cord through the side of the indoor unit and connect the cable to terminals; refer to the figure below.
- Route the other end of the cable to the outdoor unit through the ceiling & the hole on the wall.
- Reassemble the electrical component box cover, carefully tightening the screw.

## Wiring diagram

### 1 phase



In case of extending the electric wire, please DO NOT use a round-shaped pressing socket. - Incomplete wire connections can cause electric shock or a fire.



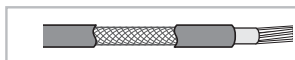
## Between Indoor and Outdoor Connection cable Specifications(Common in use)

Indoor Power supply			Communication Cable
Power Supply	Max/Min(V)	Indoor Power cable	
208-230V~, 60Hz	±10%	0.75~1.5mm <sup>2</sup> ,3wires	0.75~1.5mm <sup>2</sup> ,2wires

\* Power Supply cords of parts of appliances for outdoor use shall not be lighter than polychloroprene sheathed flexible cord. (Code designation IEC:60245 IEC 57 / CENELEC: H05RN-F or IEC:60245 IEC 66 / CENELEC: H07RN-F)

\* Screws on terminal block must not be unscrewed with the torque less than 12 kgf·cm.

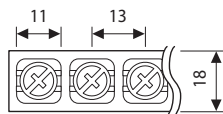
\* Since it has the external power supply, refer to the outdoor unit installation manual for MAIN POWER.



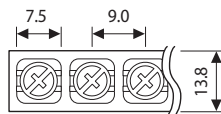
When installing the indoor unit in a computer room, use the double shielded(Tape aluminum / polyester braid + copper) cable of FROHH2R type.

## Terminal Block SPEC (Indoor)

AC POWER : M4 SCREW



COMMUNICATION : M3.5 SCREW

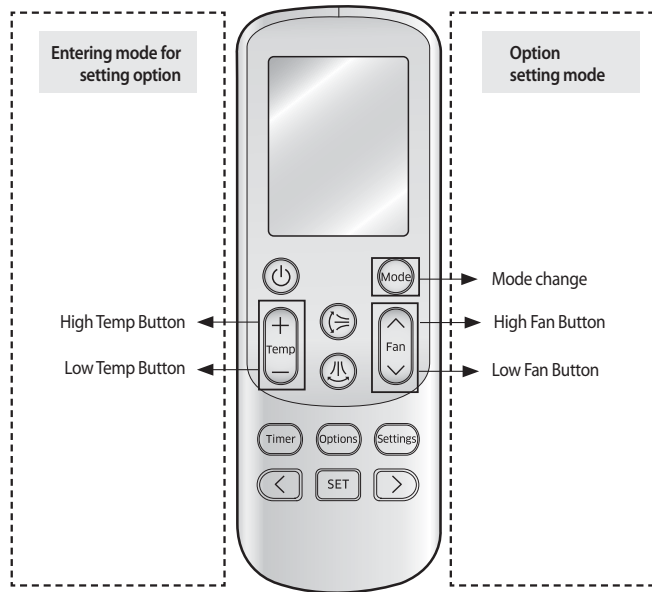


Tightening Torque ft·lb (kgf·cm)	
M3.5	(0.58~0.72) 8.0~10.0
M4	(0.87~1.08) 12.0~15.0


# Setting an indoor unit address and installation option

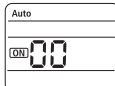
Set the indoor unit address and installation option with remote controller option.  
 Set the each option separately since you cannot set the ADDRESS setting and indoor unit installation setting option at the same time. You need to set twice when setting indoor unit address and installation option.  
 Please use the proper wireless remote which can set 24 digit option code. Following is the instructions of setting option code with wireless remote of MR-EH00U.  
 Please refer to the wired remote installation manual for setting with the wired remote.

## The procedure of setting option



### Step 1. Entering mode to set option

1. Remove batteries from the remote controller.
2. Insert batteries and enter the option setting mode while pressing High Temp button and Low Temp button .

3.  Check if you have entered the option setting status.



### Step 2. The procedure of option setting

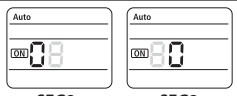

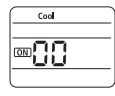
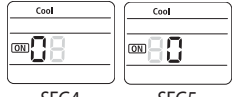




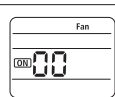
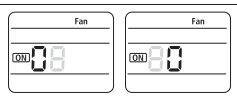


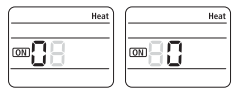


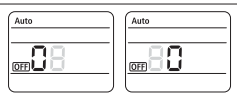
After entering the option setting status, select the option as listed below.




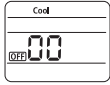
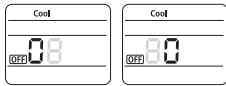

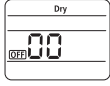


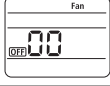



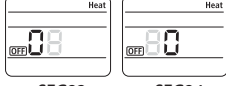
- Option setting is available from SEG1 to SEG 24
- SEG1, SEG7, SEG13, SEG18 aren't need to be set at MR-DH00. They are the page options which were used at the previous other remotes.
  - Set the each 2 bit option code in order except page options.
- For example: SEG2, 3 → SEG4, 5 → SEG6, 8 → SEG9, 10 → SEG11, 12 → SEG 14, 15 → SEG 16, 17 → SEG 18, 20 → SEG 21, 22 → SEG23, 24.

SEG1	SEG2	SEG3	SEG4	SEG5	SEG6	SEG7	SEG8	SEG9	SEG10	SEG11	SEG12
0	X	X	X	X	X	1	X	X	X	X	X
SEG13	SEG14	SEG15	SEG16	SEG17	SEG18	SEG19	SEG20	SEG21	SEG22	SEG23	SEG24
2	X	X	X	X	X	3	X	X	X	X	X


On(SEG1~12)	Off(SEG13~24)
	











Option setting	Status
<p>1. Setting SEG2, SEG3 option            Press Low Fan button( ) to enter SEG2 value.            Press High Fan button( ) to enter SEG3 value.            Each time you press the button, ㄱ ㄴ ㄷ... ㄹ ㅁ ㅂ will be selected in rotation.</p>	 <p style="text-align: center;">SEG2      SEG3</p>
<p>2. Setting Cool mode   Press Mode button to be changed to Cool mode in the ON status.</p>	
<p>3. Setting SEG4, SEG5 option            Press Low Fan button( ) to enter SEG4 value.            Press High Fan button( ) to enter SEG5 value.            Each time you press the button, ㄱ ㄴ ㄷ... ㄹ ㅁ ㅂ will be selected in rotation.</p>	 <p style="text-align: center;">SEG4      SEG5</p>
<p>4. Setting Dry mode   Press Mode button to be changed to DRY mode in the ON status.</p>	
<p>5. Setting SEG6, SEG8 option            Press Low Fan button( ) to enter SEG6 value.            Press High Fan button( ) to enter SEG8 value.            Each time you press the button, ㄱ ㄴ ㄷ... ㄹ ㅁ ㅂ will be selected in rotation.</p>	 <p style="text-align: center;">SEG6      SEG8</p>
<p>6. Setting Fan mode   Press Mode button to be changed to FAN mode in the ON status.</p>	
<p>7. Setting SEG9, SEG10 option            Press Low Fan button( ) to enter SEG9 value.            Press High Fan button( ) to enter SEG10 value.            Each time you press the button, ㄱ ㄴ ㄷ... ㄹ ㅁ ㅂ will be selected in rotation.</p>	 <p style="text-align: center;">SEG9      SEG10</p>
<p>8. Setting Heat mode   Press Mode button to be changed to HEAT mode in the ON status.</p>	
<p>9. Setting SEG11, SEG12 option            Press Low Fan button( ) to enter SEG11 value.            Press High Fan button( ) to enter SEG12 value.            Each time you press the button, ㄱ ㄴ ㄷ... ㄹ ㅁ ㅂ will be selected in rotation.</p>	 <p style="text-align: center;">SEG11      SEG12</p>
<p>10. Setting Auto mode   Press Mode button to be changed to AUTO mode in the OFF status.</p>	
<p>11. Setting SEG14, SEG15 option            Press Low Fan button( ) to enter SEG14 value.            Press High Fan button( ) to enter SEG15 value.            Each time you press the button, ㄱ ㄴ ㄷ... ㄹ ㅁ ㅂ will be selected in rotation.</p>	 <p style="text-align: center;">SEG14      SEG15</p>

## Setting an indoor unit address and installation option


Option setting	Status
12. Setting Cool mode  Press Mode button to be change to Cool mode in the OFF status.	
13. Setting SEG16, SEG17 option Press Low Fan button( ) to enter SEG16 value. Press High Fan button( ) to enter SEG17 value. Each time you press the button, 噪音... 噪F will be selected in rotation.	
14. Setting Dry mode  Press Mode button to be change to Dry mode in the OFF status.	
15. Setting SEG18, SEG20 option Press Low Fan button( ) to enter SEG18 value. Press High Fan button( ) to enter SEG20 value. Each time you press the button, 噪音... 噪F will be selected in rotation.	
16. Setting Fan mode  Press Mode button to be change to Fan mode in the OFF status.	
17. Setting SEG21, SEG22 option Press Low Fan button( ) to enter SEG21 value. Press High Fan button( ) to enter SEG22 value. Each time you press the button, 噪音... 噪F will be selected in rotation.	
18. Setting Heat mode  Press Mode button to be change to HEAT mode in the OFF status.	
19. Setting SEG23, SEG24 mode Press Low Fan button( ) to enter SEG23 value. Press High Fan button( ) to enter SEG24 value. Each time you press the button, 噪音... 噪F will be selected in rotation.	

### Step 3. Check the option you have set

After setting option, press  button to check whether the option code you input is correct or not.

Option	[SEG2,3]	[SEG4,5]	[SEG6,8]	[SEG9,10]	[SEG11,12]
Remote Controller Display					
Option	[SEG14,15]	[SEG16,17]	[SEG18,20]	[SEG21,22]	[SEG23,24]
Remote Controller Display					

### Step 4. Input option

Press operation button  with the direction of remote control for set.  
For the correct option setting, you must input the option twice.

### Step 5. Check operation

1. Reset the indoor unit by pressing the RESET button of indoor unit or outdoor unit.
2. Take the batteries out of the remote controller and insert them again and then press the operation button.

### Setting an indoor unit address (MAIN/RMC)

1. Check whether power is supplied or not.
  - When the indoor unit is not plugged in, there should be additional power supply in the indoor unit.
2. The panel(display ) should be connected to an indoor unit to receive option.
3. Before installing the indoor unit, assign an address to the indoor unit according to the air conditioning system plan.
4. Assign an indoor unit address by wireless remote controller.
  - The initial indoor unit ADDRESS is set as "MAIN : 0, RMC : 0".
  - Set Main and RMC Address only the setting is required.
  - There is no need to assign the indoor unit Main Address if the outdoor unit is addressing automatically. The indoor unit Main address will follow the outdoor unit's automatically.
  - Assign 12 digit when setting the indoor unit address.
  - No need to assign SEG4, 5, 8, 10 which are non applicable. Even though those segments are set, they will be ignored.
  - If you set the applicable segments with numbers other than the indicated, the initial setting will be maintained.

Option No. : 0AXXXX-1XXXX-2XXXX-3XXXX

Option	SEG1		SEG2		SEG3		SEG4	SEG5		SEG6	
Explanation	PAGE		MODE		Setting Main address		RESERVED	RESERVED		The unit digit of an indoor unit	
Indication and Details	Indication	Details	Indication	Details	Indication	Details				Indication	Details
	0		A		0	No Main address				0~3(ACN*)	A single digit
					1	Main address setting mode	0~4(AJN*)				
Option	SEG7		SEG8		SEG9		SEG10	SEG11		SEG12	
Explanation	PAGE		RESERVED		Setting RMC address		RESERVED	Group channel(*16)		Group address	
Indication and Details	Indication	Details			Indication	Details		Indication	Details	Indication	Details
	1				0	No RMC address		RMC1	0~2	RMC2	0~F
			1	RMC address setting mode							

\*SEG6: AJN\*\* models should check maximum installation indoor unit number of outdoor unit. (Indoor1: 0, Indoor2: 1, ~)

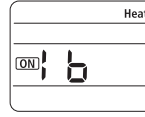
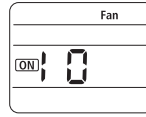
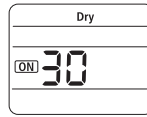
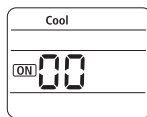
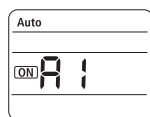


- When "A"~"F" is entered to SEG5~6, the indoor unit MAIN ADDRESS is not changed.
- If you set the SEG 3 as 0, the indoor unit will maintain the previous MAIN ADDRESS even if you input the option value of SEG6.
- If you set the SEG 9 as 0, the indoor unit will maintain previous RMC ADDRESS even if you input the option value of SEG11~12.

**Example) If you want to set as "MAIN : 3, CHANNEL : 1, RMC : B",**

SEG1	SEG2	SEG3	SEG4	SEG5	SEG6
0	A	1	-	-	3
SEG7	SEG8	SEG9	SEG10	SEG11	SEG12
1	-	1	-	1	B

assign option codes except SEG 1, 7 which are page options.



# Setting an indoor unit address and installation option

## Setting an indoor unit installation option (suitable for the condition of each installation location)

- Check whether power is supplied or not.
  - When the indoor unit is not plugged in, there should be additional power supply in the indoor unit.
- The panel(display) should be connected to an indoor unit to receive option.
- Set the installation option according to the installation condition of an air conditioner.
  - The default setting of an indoor unit installation option is "02000-100000-200000-300000".
  - Individual control of a remote controller(SEG20) is the function that controls an indoor unit individually when there is more than one indoor unit.
  - No need to assign SEG3, 6, 9, 10, 11, 16, 21, 22, 23, 24 which are non applicable. Even though those segments are set, they will be ignored.
  - If you set the applicable segments with numbers other than the indicated, the initial setting will be maintained.
- Set the indoor unit option by wireless remote controller.

Option No. : 02XXXX-1XXXXX-2XXXXX-3XXXXX

Option	SEG1		SEG2		SEG3		SEG4		SEG5		SEG6		
Explanation	PAGE		MODE		RESERVED		Use of external temperature sensor		Use of central control		RPM setting compensation		
Indication and Details	Indication	Details	Indication	Details			Indication	Details	Indication	Details	0. Not used 1. High ceiling mode 2. High ceiling kit 3. Low noise operation mode		
	0		2				0	Disuse	0	Disuse			
Option	SEG7		SEG8		SEG9		SEG10		SEG11		SEG12		
Explanation	PAGE		Use of drain pump		RESERVED		RESERVED		RESERVED		Master / Slave		
Indication and Details	Indication	Details	Indication	Details							Indication	Details	
	1		0	Disuse							0	slave	
			1	Use	1	master							
Option	SEG13		SEG14		SEG15		SEG16		SEG17		SEG18		
Explanation	PAGE		Use of external control		Setting the output of external control		S-Plasma ion		Buzzer control		Number of hours using filter		
Indication and Details	Indication	Details	Indication	Details	Indication	Details	Indication	Details	Indication	Details	Indication	Details	
	2		0	Disuse	0	Thermo on	0	Disuse	0	Mixed operation control 1/Use buzzer	2	1000 Hour	
			1	ON/OFF Control	1	Operation on	1	Use	1	Mixed operation control 1/Disuse of buzzer	6	2000 Hour	
			2	OFF Control					2	Mixed operation control 2/Use buzzer			
3			WINDOW Control	3					Mixed operation control 2/Disuse of buzzer				

\*SEG17 for ACN\*\* Model: Not used "Mixed operation control & Indication No.2 / No.3"

Option	SEG19		SEG20		SEG21		SEG22	SEG23		SEG24
Explanation	PAGE		Individual control of a remote controller		Heating setting compensation		RESERVED	Motion detect sensor		RESERVED
	Indication	Details	Indication	Details	Indication	Details		Indication	Details	
Indication and Details	3		0 or 1	Indoor 1	0	Disuse	RESERVED			0.No Use (Factory Setting) 1.Standard Mode/Auto Set OFF30 Min. 2.Standard Mode/Auto Set OFF60 Min. 3.Standard Mode/Auto Set OFF 120 Min. 4.Standard Mode/Auto Set OFF 180 Min. 5.Premium Mode/ Auto Set OFF30 Min. 6.Premium Mode/ Auto Set OFF60 Min. 7.Premium Mode/Auto Set OFF 120 Min. 8.Premium Mode/Auto Set OFF 180 Min.
			2	Indoor 2						
			3	Indoor 3						
			1	Indoor 4	2°C					
			2		5°C					

► If you input a number other than 0~4 on the individual control of the indoor unit(SEG 20), the indoor is set as "Indoor 1".

Example) If you want to set as "Exterior temperature sensor : USE, External control : USE, Number of hours using filter : 2000hr",

SEG1	SEG2	SEG3	SEG4	SEG5	SEG6
0	2	-	1	0	-
SEG7	SEG8	SEG9	SEG10	SEG11	SEG12
1	0	-	-	-	0
SEG13	SEG14	SEG15	SEG16	SEG17	SEG18
2	1	0	-	0	6
SEG19	SEG20	SEG21	SEG22	SEG23	SEG24
3	0	-	-	-	-

assign option codes except SEG 1, 7, 13, 19 which are page options.

## Setting an indoor unit address and installation option

### Changing a particular option

You can change each digit of set option.

Option	SEG1		SEG2		SEG3		SEG4		SEG5		SEG6	
Explanation	PAGE		MODE		The option mode you want to change		The tens' digit of an option SEG you will change		The unit digit of an option SEG you will change		The changed value	
Indication and Details	Indication	Details	Indication	Details	Indication	Details	Indication	Details	Indication	Details	Indication	Details
	0		D		Option mode	0~F	Tens' digit of SEG	0~9	Unit digit of SEG	0~9	The changed value	0~F







- NOTE**
- When changing a digit of an indoor unit address setting option, set the SEG3 as 'A'.
  - When changing a digit of indoor unit installation option, set the SEG3 as '2'.

**Ex) When setting the 'buzzer control' into disuse status.**

Option	SEG1	SEG2	SEG3	SEG4	SEG5	SEG6
Explanation	PAGE	MODE	The option mode you want to change	The tens' digit of an option SEG you will change	The unit digit of an option SEG you will change	The changed value
Indication	0	D	2	1	7	1



## Troubleshooting

Abnormal conditions	LED lamp display				Remarks
	Operation	Defrost	Timer	Filter	
					
Power reset	●	X	X	X	
Error of temperature sensor in the indoor unit (Open/Short)	X	●	X	X	
Error of heat exchanger sensor in the indoor unit (Open/Short)	●	●	X	X	
Error of fan motor in the indoor unit	X	X	●	X	
Error of the outdoor temperature sensor Error of the condensor temperature sensor Error of the discharge temperature sensor	●	X	●	X	
No communication for 2 minutes between indoor and outdoor unit (communication error for more than 2minutes)	X	●	●	X	
Error of outdoor unit	X	●	●	●	
Detection of the float switch	X	X	●	●	
EEPROM error	●	●	●	X	
EEPROM option error	●	●	●	●	
Motion detect sensor error	●	X	X	●	
Mixed operation error	X	X	X	●	

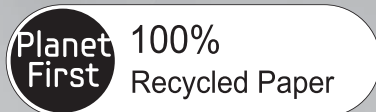
● On   ● Flickering   X Off

◆ If you turn off the air conditioner when the LED is flickering, the LED is also turned off.



Cassette Type Series  
AJ\*\*\*JNNDCH

# Air Conditioner installation manual



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