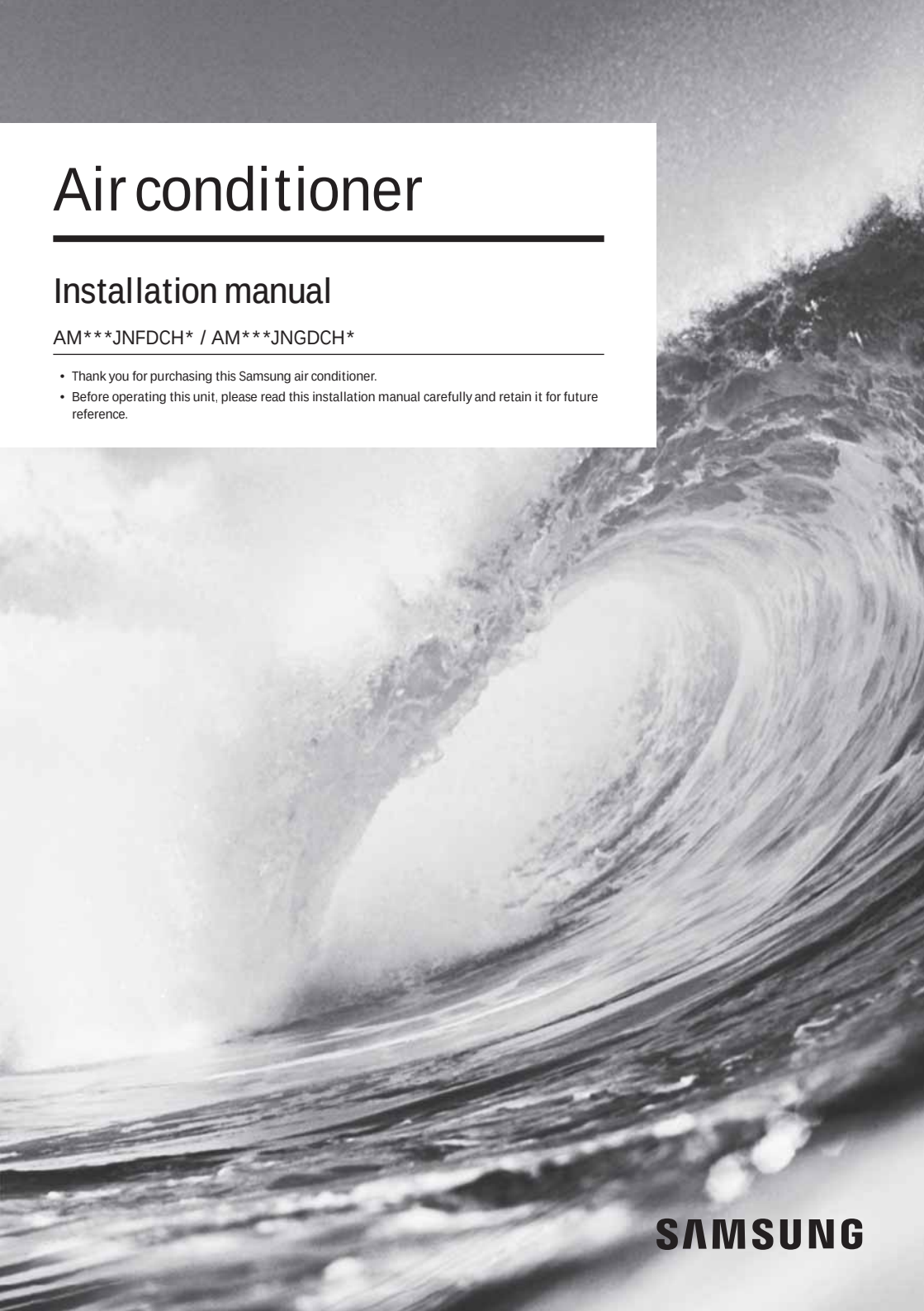


Air conditioner

Installation manual

AM***JNFDCH* / AM***JNGDCH*

- Thank you for purchasing this Samsung air conditioner.
- Before operating this unit, please read this installation manual carefully and retain it for future reference.



SAMSUNG

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Safety Precautions



WARNING

► Cancer and Reproductive Harm - www.P65Warnings.ca.gov.

(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.

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 hydraulic lines. Failure to comply with these instructions or to comply with the 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 control(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.
- ▶ Wear protective equipment (such as safety gloves, goggles, and headgear) during installation and maintenance works. Installation/repair technicians may be injured if protective equipment is not properly equipped.

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.
- ▶ 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.
- ▶ Our units must be installed in compliance with the spaces indicated in the installation manual to ensure either accessibility from both sides or ability to perform routine maintenance and repairs. The units' components must be accessible and that can be disassembled in conditions of complete safety either for people or things. For this reason, where it is not observed as indicated into the Installation Manual, the cost necessary to reach and repair the unit (in safety, as required by current regulations in force) with slings, trucks, scaffolding or any other means of elevation won't be considered in-warranty and charged to end user.

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.

Safety Precautions



- 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.

Accessories

The following accessories are supplied with the indoor unit.

The type and quantity may differ depending on the specifications.

Extension pipe 	Pipe insulator 	Drain insulator cover 	Insulator 
	Insulation cover band 	User's manual 	Installation manual 

Extension pipe type	Liquid pipe	Gas pipe
006/009/012/018	Φ 6.35 (1/4")	Φ 12.7 (1/2")
024	Φ 9.52 (3/8")	Φ 15.88 (5/8")

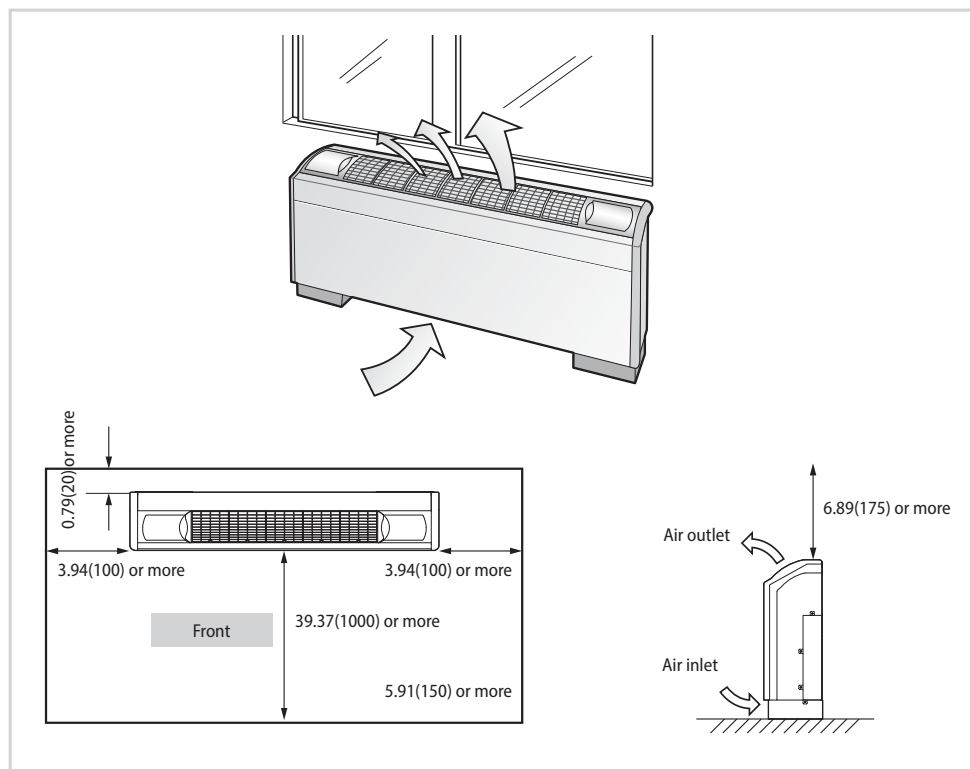
Selecting the installation location

Decide the installation location, with the consideration of the following conditions, under user's approval.

- Place where air flow is not disturbed.
- Place with flat surface and where structure can bear the weight and vibration of the indoor unit. (If the structure is not strong enough, indoor unit may fall and get damaged or cause personal injury.)
- Place where sufficient space can be guaranteed for maintenance and other services.
- Place where condensation can be drained easily.
- Place that allows refrigerant pipe connection within allowable distance.
- Place where indoor unit will not be exposed to direct sunlight.
- Place that can keep the distance of at least 3.28 ft (1 m) between power/communication cable and any electronic devices. (Depending on the circumstances, problem may occur even if you secure 3.28 ft (1 m) of distance.)

Exposed Type

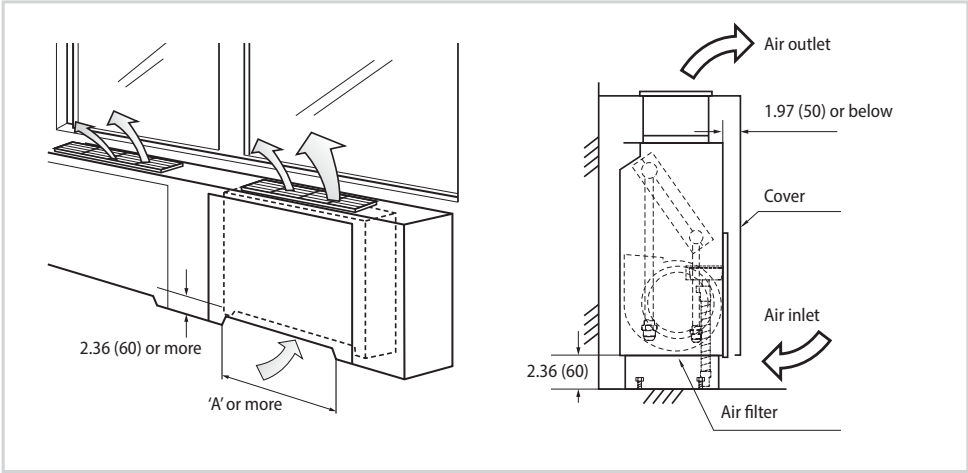
Unit: inch (mm)



Selecting the installation location

Concealed Type

Unit: inch (mm)

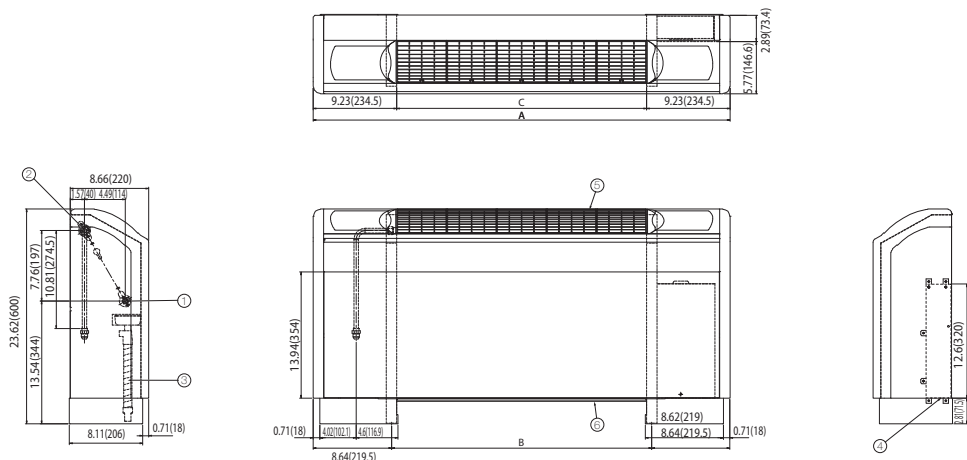


Model	A
006/009/012	27.56 (700)
018/024	38.58 (980)

Drawing of the indoor unit

Exposed Type

Unit : inch (mm)



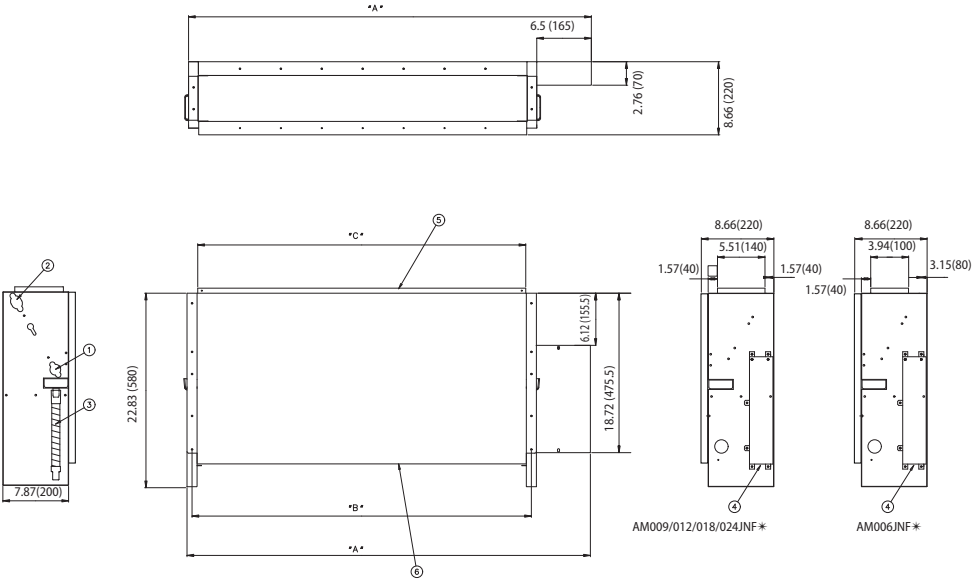
Model	"A"	"B"	"C"
006/009/012	46.02 inch (1169mm)	28.74 inch (730 mm)	27.56 inch (700 mm)
018/024	57.05 inch (1449mm)	39.76 inch (1010 mm)	38.58 inch (980 mm)

No.	Name	Description
1	Liquid pipe connection	**006/009/012/018** : $\phi 6.35$ (1/4") **024** : $\phi 9.52$ (3/8")
2	Gas pipe connection	**006/009/012/018** : $\phi 12.7$ (1/2") **024** : $\phi 15.88$ (5/8")
3	Drain pipe connection	ID $\phi 18$ (0.709") Hose
4	Power wiring	-
5	Air outlet	-
6	Air intake	-

Selecting the installation location

Concealed Type

Unit: inch (mm)



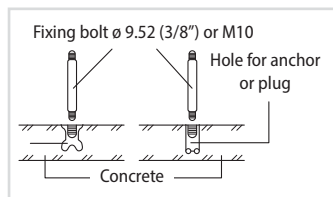
Model	"A"	"B"	"C"
006/009/012	37.2 inch (945 mm)	28.74 inch (730 mm)	27.56 inch (700 mm)
018/024	48.23 inch (1225 mm)	39.76 inch (1010 mm)	38.58 inch (980 mm)

No.	Name	Description
1	Liquid pipe connection	**006/009/012/018** : $\phi 6.35$ (1/4") **024** : $\phi 9.52$ (3/8")
2	Gas pipe connection	**006/009/012/018** : $\phi 12.7$ (1/2") **024** : $\phi 15.88$ (5/8")
3	Drain pipe connection	ID $\phi 18$ (0.709") Hose
4	Power wiring	-
5	Air outlet	-
6	Air intake	-

Indoor unit installation

Refrigerant pipe work must be done before installing the indoor unit.

1. Check the product and the location where it will be installed.
2. Check the required installation conditions.
3. Drill a hole on a floor or a wall and insert bolt anchors as shown in the figure.
 - Use a $\varnothing 9.52$ (3/8") or M10 bolts for installation.
 - At least 2 anchor bolts must be used for fixing the indoor unit.



- All the part must be purchased separately.
- Service space must be secured.

4. Select a location with no obstacles in surrounding area while allowing easy pipe and electrical installation, and also consider a place where it may not fall or get shaken by vibration or any other external force.
5. Drill a hole for the drain on the bottom or rear side of the indoor unit with a diameter between 2.36~2.56 inch (60~65 mm).
6. Make sure that product is in level.
 - Check the horizontality by using a level or a vinyl tube with water etc.



- If the indoor unit is not installed in level, drain water may get in to the indoor unit due to incorrect measurement of water level.

7. Fix the indoor unit by connecting it to the anchor bolt.

Purging the unit

On delivery, the indoor unit is loaded with inert gas.

All this gas must therefore be purged before connecting the assembly piping.

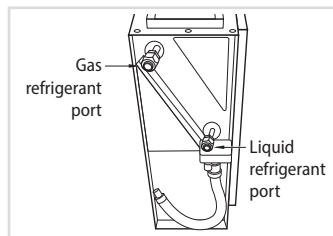
To purge the inert gas, proceed as follows.

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

Result: All inert gas escapes from the indoor unit.



- 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.



The designs and shape are subject to change according to the model.

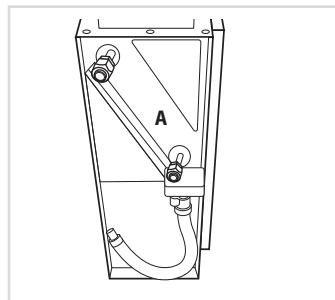
Connecting the refrigerant pipe

There are two refrigerant pipes of differing 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.

The connection procedure for the refrigerant pipes varies according to the exit position of the pipes from the indoor unit, as seen when facing the indoor in the "A" side.

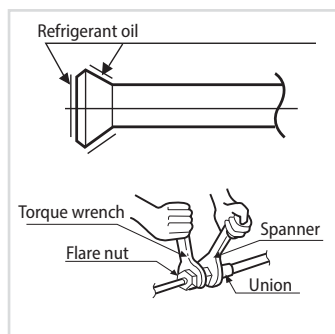
- Liquid refrigerant port
- Gas refrigerant port
- Drain hose port



The designs and shape are subject to change according to the model.

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		Torque	
mm	inch	N • m	ibf • ft
6.35	1/4	14~18	10.3~13.3
9.52	3/8	34~42	25.1~31.0
12.70	1/2	49~61	36.1~45.0
15.88	5/8	68~82	50.2~60.5



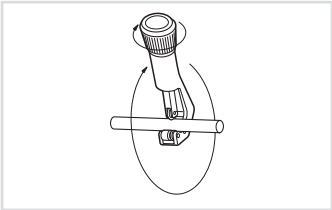
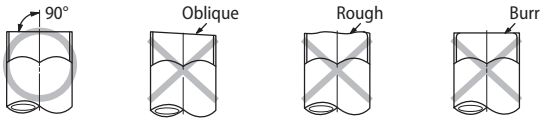
NOTE

- Must apply refrigerant oil on the flaring area to prevent a leak.

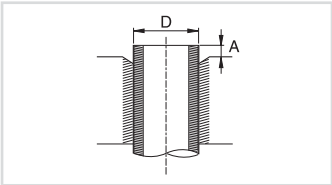
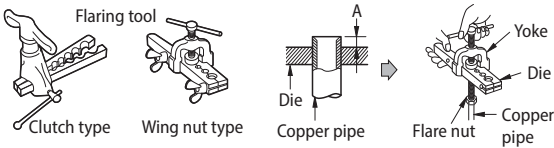
2. Be sure that there must be no crack or kink on the bended area.

Cutting/Flaring the pipes

1. Make sure that you prepared the required tools. (pipe cutter, reamer, flaring tool and pipe holder)
2. If you want to shorten the pipe, cut it using a pipe cutter ensuring that the cut edge remains at 90° with the side of the pipe. There are some examples of correctly and incorrectly cut edges below.



3. To prevent a gas leak, remove all burrs at the cut edge of the pipe using a reamer.
4. Carry out flaring work using flaring tool as shown below.



Outer diameter (D)		Depth of flaring part (A)					
		Using flaring tool for R-410A		Using conventional flaring tool			
				Clutch type		Wing nut type	
mm	inch	mm	inch	mm	inch	mm	inch
6.35	1/4	0~0.5	0~0.02	1.0~1.5	0.04~0.06	1.5~2.0	0.06~0.08
9.52	3/8	0~0.5	0~0.02	1.0~1.5	0.04~0.06	1.5~2.0	0.06~0.08
12.70	1/2	0~0.5	0~0.02	1.0~1.5	0.04~0.06	1.5~2.0	0.06~0.08
15.88	5/8	0~0.5	0~0.02	1.0~1.5	0.04~0.06	1.5~2.0	0.06~0.08

Cutting/Flaring the pipes

5. Check if you flared the pipe correctly. There are some examples of incorrectly flared pipes below.



Correct



Inclined



Damaged Surface

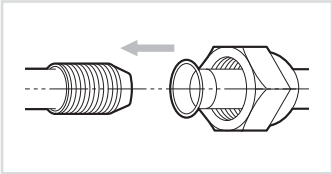


Cracked



Uneven Thickness

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



Outer diameter		Connection Torque		Flare dimension		Flare shape [mm (inch)]
mm	inch	kgf·cm	lbf·ft	mm	inch	
6.35	1/4	14~18	10.3~13.3	8.7~9.1	0.34~0.36	A detailed diagram of the required flare shape. It shows a conical flare with a 45° ± 2° angle. The outer radius is labeled R 0.4~0.8 (0.016~0.032). The thickness of the flare is indicated as 90° ± 2°.
9.52	3/8	34~42	25.1~31.0	12.8~13.2	0.50~0.52	
12.70	1/2	49~61	36.1~45.0	16.2~16.6	0.64~0.65	
15.88	5/8	68~82	50.2~60.5	19.3~19.7	0.76~0.78	
19.05	3/4	100~120	73.8~88.5	23.6~24.0	0.93~0.94	



• In case of needing brazing, you must work with Nitrogen gas blowing.

Performing leak test & insulation

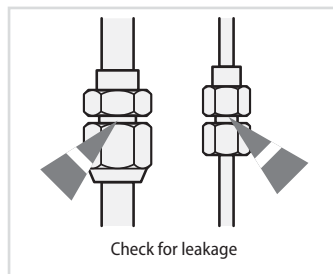
Leak test

LEAK TEST WITH NITROGEN (before opening valves)

In order to detect basic refrigerant leaks, before recreating the vacuum and recirculating the R-410A, it's responsible of installer to pressurize the whole system with nitrogen (using a pressure regulator) at a pressure above 4.1MPa (gauge).

LEAK TEST WITH R-410A (after opening valves)

Before opening valves, discharge all the nitrogen into the system and create vacuum. After opening valves check leaks using a leak detector for refrigerant R-410A.

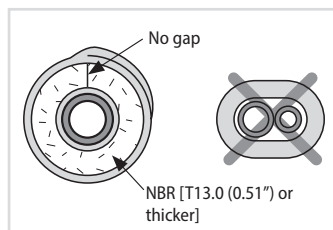


- Discharge all the nitrogen to create a vacuum and charge the system.

Insulation

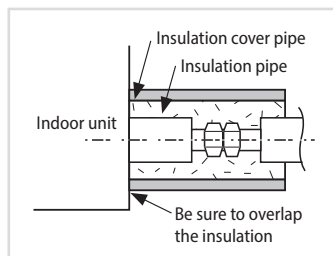
Once you have checked that there are no leaks in the system, you can insulate the piping and hose.

1. To avoid condensation problems, place **T13.0 (0.51") 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.



- Must fit tightly against body without any gap.

Performing leak test & insulation

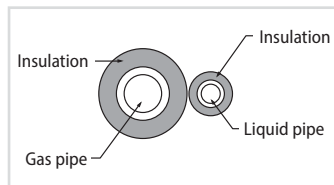
- 5. Select the insulation of the refrigerant pipe.
- Insulate the gas side and liquid side pipe referring to the thickness according to the pipe size.
- Indoor temperature of 86 °F(30 °C) and humidity of 85% is the standard condition.
If install in a high humidity condition,use one grade thicker insulator 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).

Pipe	Outer diameter		Insulation Type (Cooling/Heating)				Remarks
			General [30 °C (86 °F), 85 %]		High humidity [30 °C (86 °F), 85 %]		
			EPDM, NBR				
	mm	inch	mm	inch	mm	inch	
Liquid pipe	6.35~9.52	1/4~3/8	9	3/8	9	3/8	Internal temperature is higher than 248 °F (120 °C)
	12.7~50.8	1/2~2	13	1/2	13	1/2	
Gas pipe	6.35	1/4	13	1/2	19	3/4	
	9.52~25.4	3/8~1	19	3/4	25	1	
	28.58~44.45	1 1/8~1 3/4	19	3/4	32	1 1/4	
	50.8	2	25	1	38	1 1/2	

- 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.

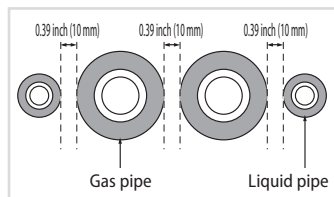
Refrigerant pipe before EEV kit and MCU or without EEV kit and MCU

- You can contact the gas side and liquid side pipes but the pipes should not be pressed.
- When contacting the gas side and gas side pipe, use 1 grade thicker insulator.

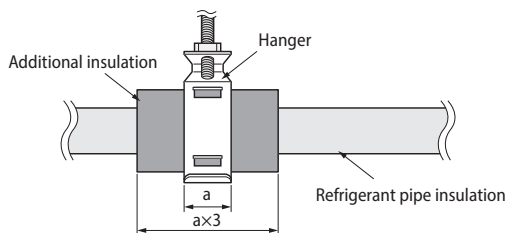


Refrigerant pipe after EEV kit and MCU

- Install the gas side and liquid side pipes, leave 0.39 inch (10 mm) of space.
- When contacting the gas side and liquid side pipe, use 1 grade thicker insulator.



- Install the insulation not to get wider and use the adhesives on the connection part of it to prevent moisture from entering.
- Wind the refrigerant pipe with insulation tape if it is exposed to outside sunlight.
- Install the refrigerant pipe respecting that the insulation does not get thinner on the bent part or hanger of pipe.
- Add the additional insulation if the insulation plate gets thinner.

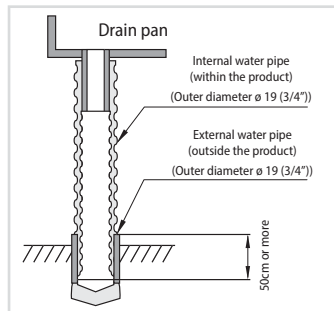


Drain pipe and drain hose installation

1. Install a drain pipe according to following instruction.
2. When you complete the drain hose installation, pour water to make sure water is drained properly.



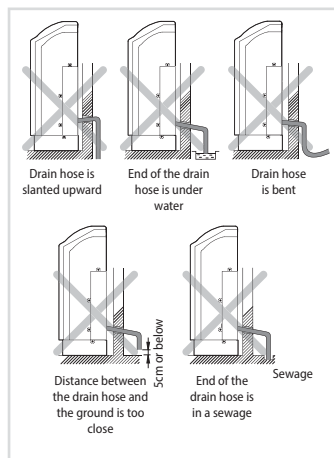
- Make sure to keep the drain hose from getting tangled or loosed (on the connection part).
- If it is necessary, connect a extension hose (drain hose) to drain hose for indoor unit and insulate the external surface of the extension hose if it is connected in indoor.
- If you installed a drain pipe underneath the refrigerant pipe, make sure to fix the drain hose firmly.
- If you install the drain hose by drilling a hole on a wall, make sure that slope is downward.



3. When passing the drain hose through the hole drilled in the wall, make sure to avoid following cases.

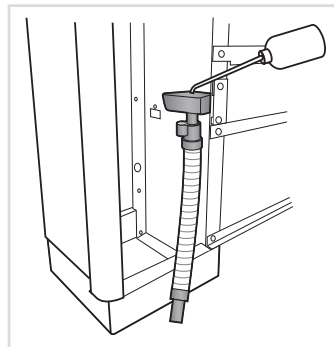


- Since the draining is of natural drain type, install the drain hose in downward direction.
- If you do not tie the drain hose with a cable tie, leakage may occur.
- Drain pipe may get clogged if there is any foreign substances within the drain pan, so you must remove any foreign substances after completing the installation.
- Do not use the drain hose (extension hoses) that is connected by number of hoses together.
 - Water may leak from the connection part, therefore install the drain hose in one piece. However, if the length is too short and you cannot avoid connecting number of drain hoses together, make sure to use silicone sealant or other material for water-proofing measures. (Do not use insulating tape.)



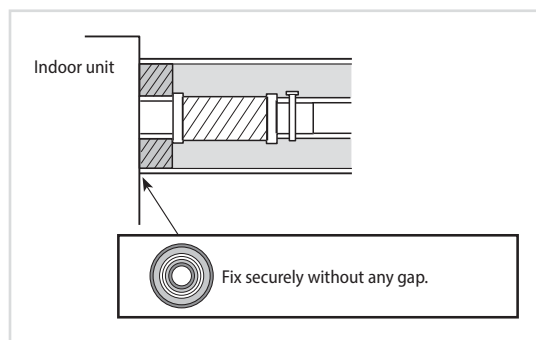
Water leakage test

1. Pour water to the hole for the drain test or drain pan of the indoor unit as shown in the figure. (About 1ℓ)
2. Make sure that draining is done properly by checking end of the drain pipe.
3. If water leakage occurs, check the horizontality of the indoor unit, connection part of the drain hose/drain pipe and take measure to stop the leakage.



- After connecting the drain pipe to the indoor unit, you must perform leakage test. If the drain test has not done properly, water may get into the indoor and cause property damage.
- Empty the condensation water in the drain pan before any repair/maintenance service.

Pipe insulation

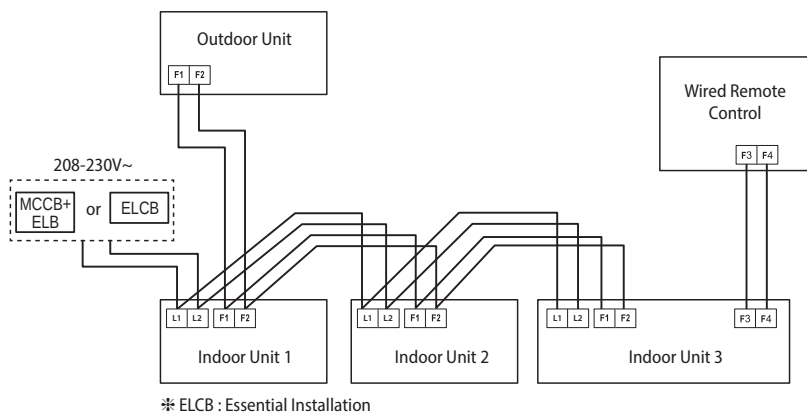


- You must insulate refrigerant pipes, branch joints, distribution header and the pipe connection part.
- Make sure to prevent any gap between the insulation on the bent part of the pipes.
- Make sure that insulation is overlapped when fixing it.

Wiring Work

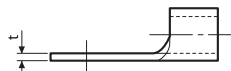
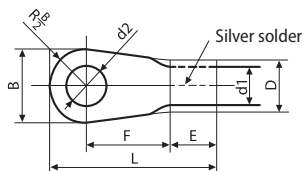
Power and communication cable connection

1. Before wiring work, you must turn off all power source.
2. Indoor unit power should be supplied through the breaker (ELCB or MCCB+ELB) separated by the outdoor power.
ELCB: Earth Leakage Circuit Breaker
MCCB: Molded Case Circuit Breaker
ELB: Earth Leakage Breaker
3. The power cable should be used only copper wires.
4. Connect the power cable (L1, L2) among the units within maximum length and communication cable(F1, F2) each.
5. Connect F3, F4(for communication) when installing the wired remote control.



※ When Installing ELCB(MCCB + ELB) indoor unit, do not connect with other indoor units attached to other outdoor units(system A/C).

Selecting compressed ring terminal



Normal dimensions for cable (inch ²)	Normal dimensions for screw (inch)	B		D		d1		E	F	L	d2		t
		Standard dimension (inch)	Allowance (inch)	Standard dimension (inch)	Allowance (inch)	Standard dimension (inch)	Allowance (inch)	Min.	Min.	Max.	Standard dimension (inch)	Allowance (inch)	Min.
0.0023	0.16	0.26	±0.0079	0.13	+0.012 -0.0079	0.067	±0.0079	0.16	0.24	0.63	0.17	±0.0079 0	0.028
	0.16	0.31											
0.0039	0.16	0.26	±0.0079	0.17	+0.012 -0.0079	0.091	±0.0079	0.24	0.24	0.69	0.17	±0.0079 0	0.031
	0.16	0.33											
0.0062	0.16	0.37	±0.0079	0.22	+0.012 -0.0079	0.134	±0.0079	0.24	0.20	0.79	0.17	±0.0079 0	0.035

Wiring Work

Specification of electronic wire

Power supply	MCCB	ELB or ELCB	Power cable	Earth cable	Communication cable
Max : 253V Min : 187V	XA	XA, 30 mA 0.1 sec	0.0039 inch ² (2.5 mm ²)	0.0039 inch ² (2.5 mm ²)	0.0012~0.0023 inch ² (0.75~1.5 mm ²)

- ※ Run transmission wiring between the indoor and outdoor units through a conduit to protect against external forces, and feed the conduit through the wall together with refrigerant piping.
- Decide the capacity of ELCB(or MCCB+ELB) by below formula.

The capacity of ELCB(or MCCB+ELB) X [A] = 1.25 X 1.1 X ΣAi

- ※ X : The capacity of ELCB(or MCCB+ELB).
- ※ ΣAi : Sum of Rating currents of each indoor unit.
- ※ Refer to each installation manual about the rating current of indoor unit.
- Decide the power cable specification and maximum length within 10% power drop among indoor units.

$$\sum_{k=1}^n \left(\frac{\text{Coef} \times 35.6 \times L_k \times i_k}{1000 \times A_k} \right) < 10\% \text{ of input voltage[V]}$$

※ Coef: 1.55

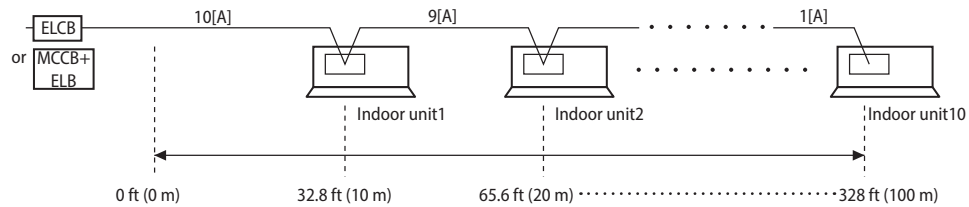
※ L_k: Distance among each indoor unit[m]

A_k: Power cable specification[mm²]

i_k: Running current of each unit[A]

Example of Installation

- Total power cable length L = 328 ft(100 m), Running current of each units 1[A]
- Total 10 indoor units were installed

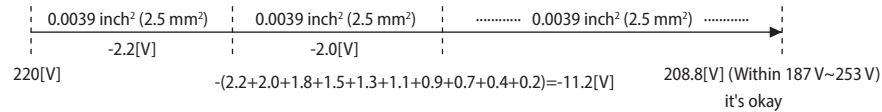


- Apply following equation.

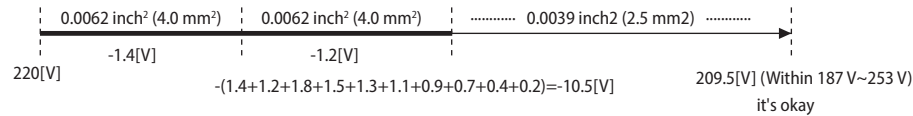
$$\sum_{k=1}^n \left(\frac{\text{Coef} \times 35.6 \times L_k \times i_k}{1000 \times A_k} \right) < 10 \% \text{ of input voltage[V]}$$

✳ Calculation

- Installing with 1 sort wire.



- Installing with 2 different sort wire.



Wiring Work



CAUTION

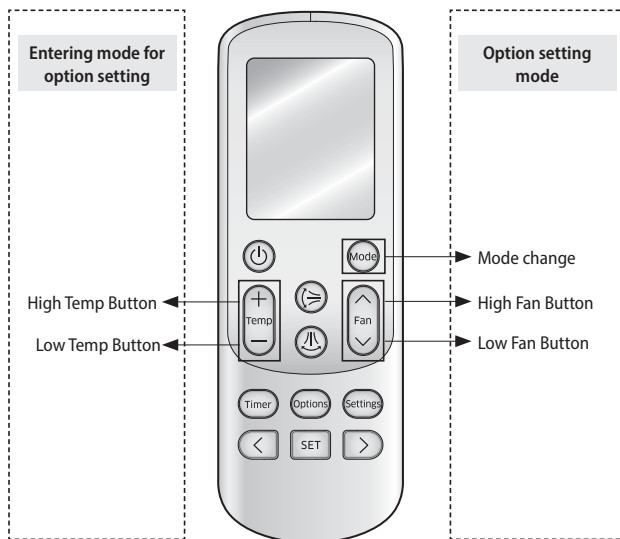
- Select the power cable in accordance with relevant local and national regulations.
- Wire size must comply with local and national code.
- Power supply cords of parts of appliances for outdoor use shall not be lighter than polychloroprene sheathed flexible cord. (Code designation H07RN-F or H05RN-F)
- You should connect the power cable into the power cable terminal and fasten it with a clamp.
- The unbalanced power must be maintained within 10 % of supply rating among whole indoor units.
- If the power is unbalanced greatly, it may shorten the life of the condenser. If the unbalanced power is exceeded over 10% of supply rating, the indoor unit is protected, stopped and the error mode indicates.
- To protect the product from water and possible shock, you should keep the power cable and the connection cord of the indoor and outdoor units in the iron pipe.
- Connect the power cable to the auxiliary circuit breaker.
An all pole disconnection from the power supply must be incorporated in the fixed wiring[$\geq 1/8''$ (3 mm)].
- You must keep the cable in a protection tube.
- Keep distances of 2" (50 mm) or more between power cable and communication cable.
- Maximum length of power cables are decided within 10% of power drop. If it exceeds, you must consider another power supplying method.
- The circuit breaker(ELCB or MCCB+ELB) should be considered more capacity if many indoor units are connected from one breaker.
- Use round pressure terminal for connections to the power terminal block.
- For wiring, use the designated power cable and connect it firmly, then secure to prevent outside pressure being exerted on the terminal board.
- Use an appropriate screwdriver for tightening the terminal screws.
A screwdriver with a small head will strip the head and make proper tightening impossible.
- Over-tightening the terminal screws may break them.
- See the table below for tightening torque for the terminal screws.

	Tightening torque	
	N•m	lbf•ft
M3.5	0.8~1.2	0.59~0.89
M4	1.2~1.8	0.89~1.33

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.

The procedure of option setting



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 SEG24

- SEG1, SEG7, SEG13, SEG19 are not set as page option.
- Set the SEG2~SEG6, SEG8~SEG12 as ON status and SEG14~18, SEG20~24 as OFF status.

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

00

Auto

Off

00

Auto

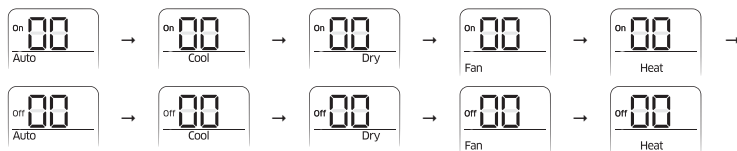
Setting an indoor unit address and installation option

Option setting	Status
1. Setting SEG2, SEG3 option Press Low Fan button(V) to enter SEG2 value. Press High Fan button(Λ) to enter SEG3 value. Each time you press the button, 0 → 1 → ... 8 → 9 will be selected in rotation.	  SEG2 SEG3
2. Setting Cool mode  Press Mode button to be changed to Cool mode in the ON status.	
3. Setting SEG4, SEG5 option Press Low Fan button(V) to enter SEG4 value. Press High Fan button(Λ) to enter SEG5 value. Each time you press the button, 0 → 1 → ... 8 → 9 will be selected in rotation.	  SEG4 SEG5
4. Setting Dry mode  Press Mode button to be changed to DRY mode in the ON status.	
5. Setting SEG6, SEG8 option Press Low Fan button(V) to enter SEG6 value. Press High Fan button(Λ) to enter SEG8 value. Each time you press the button, 0 → 1 → ... 8 → 9 will be selected in rotation.	  SEG6 SEG8
6. Setting Fan mode  Press Mode button to be changed to FAN mode in the ON status.	
7. Setting SEG9, SEG10 option Press Low Fan button(V) to enter SEG9 value. Press High Fan button(Λ) to enter SEG10 value. Each time you press the button, 0 → 1 → ... 8 → 9 will be selected in rotation.	  SEG9 SEG10
8. Setting Heat mode  Press Mode button to be changed to HEAT mode in the ON status.	
9. Setting SEG11, SEG12 option Press Low Fan button(V) to enter SEG11 value. Press High Fan button(Λ) to enter SEG12 value. Each time you press the button, 0 → 1 → ... 8 → 9 will be selected in rotation.	  SEG11 SEG12
10. Setting Auto mode  Press Mode button to be changed to AUTO mode in the OFF status.	
11. Setting SEG14, SEG15 option Press Low Fan button(V) to enter SEG14 value. Press High Fan button(Λ) to enter SEG15 value. Each time you press the button, 0 → 1 → ... 8 → 9 will be selected in rotation.	  SEG14 SEG15
12. Setting Cool mode  Press Mode button to be change to Cool mode in the OFF status.	

Option setting	Status
13. Setting SEG16, SEG17 option Press Low Fan button(V) to enter SEG16 value. Press High Fan button(Λ) to enter SEG17 value. Each time you press the button, 0 → 8 → ... E → E will be selected in rotation.	  SEG16 SEG17
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(V) to enter SEG18 value. Press High Fan button(Λ) to enter SEG20 value. Each time you press the button, 0 → 8 → ... E → E will be selected in rotation.	  SEG18 SEG20
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(V) to enter SEG21 value. Press High Fan button(Λ) to enter SEG22 value. Each time you press the button, 0 → 8 → ... E → E will be selected in rotation.	  SEG21 SEG22
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(V) to enter SEG23 value. Press High Fan button(Λ) to enter SEG24 value. Each time you press the button, 0 → 8 → ... E → E will be selected in rotation.	  SEG23 SEG24

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.



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.

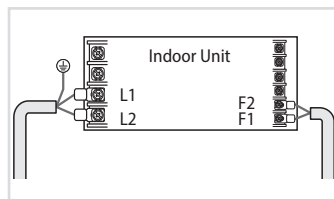
Step 5. Check operation

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 and installation option

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

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 setting status of indoor unit ADDRESS(MAIN/RMC/MCU port) is "0A0000-100000-200000-300000."



- Also set the MCU and Indoor units address by using Add-on → Change address on S-NET Pro 2.
(For more information, see the S-NET Pro 2 Help.)
- From SEG13 to SEG18 is for setting MCU address.
 - MCU models that can set address: MCU-S*NEK2N, MCU-S4NEK3N, MCU-S1NEK1N

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

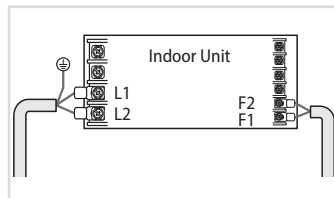
Option	SEG1		SEG2		SEG3		SEG4		SEG5		SEG6	
Explanation	PAGE		MODE		Setting Main address		100-digit of indoor unit address		10-digit of indoor unit		The unit digit of an indoor unit	
Indication and Details	Indication	Details	Indication	Details	Indication	Details	Indication	Details	Indication	Details	Indication	Details
	0		A		0	No Main address	0~9	100 -digit	0~9	10 -digit	0~9	A unit digit
					1	Main address setting mode						
Option	SEG7		SEG8		SEG9		SEG10		SEG11		SEG12	
Explanation	PAGE				Setting RMC address				Group channel(*16)		Group address	
Indication and Details	Indication	Details			Indication	Details			Indication	Details	Indication	Details
	1				0	No RMC address			RMC1	0~F	RMC2	0~F
			1	RMC address setting mode								
Option	SEG13		SEG14		SEG15		SEG16		SEG17		SEG18	
Explanation	PAGE		-		Setting MCU PORT address		10-digit of MCU address		1-digit of MCU		MCU PORT address	
Indication and Details	Indication	Details			Indication	Details	Indication	Details	Indication	Details	Indication	Details
	2				0	No MCU PORT	0~1	10-digit	0~9	1-digit	A~F	PORT Location
					1	MCU PORT address setting mode						



- 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 SEG5~6.
- 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.
- You cannot set SEG11 and SEG12 as F value at the same time.
- If the indoor unit is connected to the MCU, you can set the SEG 15~18.
Ex.) If you want to set the indoor unit to 'A' port of MCU #1. (0A0000 – 100000 – 20101A -30000)

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

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. Set the installation option according to the installation condition of an air conditioner.
 - The default setting of an indoor unit installation option is "020010-100000-200000-300000".
 - Individual control of a remote controller(SEG20) is the function that controls an indoor unit individually when there is more than one indoor unit.
4. Set the indoor unit option by wireless remote controller.

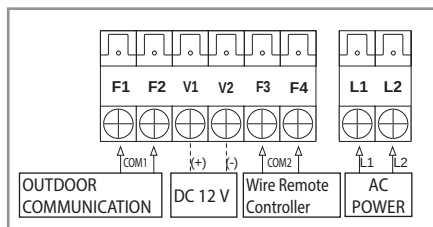


ENGLISH

02 series installation option

SEG1	SEG2	SEG3	SEG4	SEG5	SEG6
0	2	Evaporator drying	Use of external room temperature sensor / Minimizing fan operation when thermostat is off	Use of central control	FAN RPM compensation
SEG7	SEG8	SEG9	SEG10	SEG11	SEG12
1	Use of drain pump	Use of hot water heater	-	EEV Step when heating stops	-
SEG13	SEG14	SEG15	SEG16	SEG17	SEG18
2	Use of external control	Setting the output of external control / External heater signal / Cooling operation signal / Free Cooling control signal	-	Buzzer control	Hours of filter usage
SEG19	SEG20	SEG21	SEG22	SEG23	SEG24
3	Individual control of a remote controller	Heating setting compensation	Adjusted EEV step of stopped unit during oil return / defrost mode.	-	-

- 1WAY / 2WAY / 4WAY MODEL: Drain pump(SEG8) will be set to 'USE + 3minute delay' even if the drain pump is set to 0.
- 1 WAY / 2WAY / 4WAY, DUCT MODEL : Number of hours using filter(SEG18) will be set to '1000hour' even if the SEG18 is set to except for 2 or 6.
- When setting the option other than above SEG values, the option will be set as "0".
- SEG5 central control option is basically set as 1 (Use), so you don't need to set the central control option additionally. However, if the central control is not connected but it doesn't indicate an error message, you need to set the central control option as 0 (Disuse) to exclude the indoor unit from the central control.
- The output of hot water heater in SEG9 is generated from the hot coil part of the terminal board in duct models.



* The output of hot coil terminal is AC 220 V / 230 V
(The same as Indoor Unit's input Power)

- The external output of SEG15 is generated by MIM-B14 connection. (Refer to the manual of MIM-B14.)

Setting an indoor unit address and installation option

02 series installation option(Detailed)

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

Option	SEG1		SEG2		SEG3		SEG4			SEG5		SEG6		
Explanation	PAGE		MODE		Evaporator drying		Use of external room temperature sensor / Minimizing fan operation when thermostat is off			Use of central control		FAN RPM compensation		
Indication and Details	Indication	Details	Indication	Details	Indication	Details	Indication	Details		Indication	Details	Indication	Details	
	0	2	0	Disuse	0	Default	Default							
					1	Use	Disuse							
					2	Disuse	Use (Heating) ^(*)2)							
			2	Use (5min) ^(*)1)	3	Use	Use (Heating) ^(*)2)							
					4	Disuse	Use (Cooling) ^(*)2)							
					5	Use	Use (Cooling) ^(*)2)							
			4	Use (10min) ^(*)1)	6	Disuse	Use (Heating / Cooling) ^(*)2)							
					7	Use	Use (Heating / Cooling) ^(*)2)							
					8	Disuse	Use (Cooling Ultra Low Fan) ^(*)2)							
			6	Use (30min) ^(*)1)	9	Use	Use (Cooling Ultra Low Fan) ^(*)2)							
					A	Disuse	Use (Heating / Cooling Ultra Low Fan) ^(*)2)							
					B	Use	Use (Heating / Cooling Ultra Low Fan) ^(*)2)							
			Option	SEG7		SEG8		SEG9		SEG10			SEG11	
Explanation	PAGE		Use of drain pump		Use of hot water heater		-			EEV Step when heating stops		-		
Indication and Details	Indication	Details	Indication	Details	Indication	Details	-			Indication	Details	-		
	1	0	Disuse	0	Disuse									
		1	Use	1	Use ^(*)3)									
		2	When an indoor unit stops, drain pump will operate for 3min	3	Use ^(*)3)									
Option	SEG13		SEG14		SEG15		SEG16			SEG17		SEG18		
Explanation	PAGE		Use of external control		Setting the output of external control / External heater signal / Cooling operation signal / Free Cooling control signal		-			Buzzer control		Hours of filter usage		
Indication and Details	Indication	Details	Indication	Details	Indication	Details	-			Indication	Details	Indication	Details	
	2	0	Disuse	0	External control (Thermo On)	0				Use buzzer	2	1000 Hour		
				1	ON/OFF control								1	External control (Operation On)
					2								External heater signal ^(*)4)	
			2	OFF control	3	External heater signal ^(*)4)								
					4	Cooling operation signal ^(*)5)								
			3	Window ON/OFF control	5	Free Cooling control (Cooling Thermo On) ^(*)6)								
					6	Free Cooling control (Cooling/Dry Thermo On) ^(*)6)								

Option	SEG19		SEG20		SEG21		SEG22		SEG23	SEG24
Explanation	PAGE		Individual control of a remote controller		Heating setting compensation		Adjusted EEV step of stopped unit during oil return /defrost mode.		-	-
Indication and Details	Indication	Details	Indication	Details	Indication	Details	Indication	Details		
	3		0 or 1	channel 1	0	Default	0	Default	-	-
			2	channel 2	1	2 °C	1	Adjusted EEV positon		
			3	channel 3						
			4	channel 4	2	5 °C				

(*)1 When COOL or DRY mode is off. The indoor fan operate in setting minutes.

(*)2 Minimizing fan operation when thermostat is off

- Fan operates for 20 seconds at an interval of 5 minutes in HEAT mode.

- Fan stops or operates Ultra low in Cooling when thermostat is off.

(*)3 1: Fan is turned on continually when the hot water heater is turned on,

3: Fan is turned off when the hot water heater is turned on with cooling only indoor unit

Cooling only indoor unit: To use this option, install the Mode Select switch(MCM-C200) on the outdoor unit and fix it as COOL mode.

(*)4 When the following 2 or 3 is used as external heater On/Off signal, the signal for monitoring external contact control will not be output.

2: Fan is turned on continually when the external heater is turned on,

3: Fan is turned off when the external heater is turned on with cooling only indoor unit

Cooling only indoor unit: To use this option, install the Mode Select switch(MCM-C200) on the outdoor unit and fix it as COOL mode.

• If Fan is set to off for cooling only indoor unit by setting the SEG9=3 or SEG15=3, you need to use an external sensor or wired remote controller sensor to detect indoor temperature exactly.

(*)5 When indoor unit is in cooling or DRY mode, The output signal is "ON"

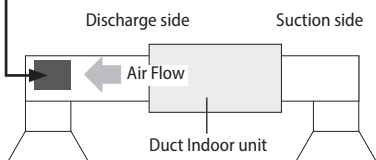
(*)6 For free cooling control, economizer controller is required.



CAUTION

Do not install the electronic heater in the flow channel of the indoor unit fan.

Electronic heater should not be installed.



Discharge side Suction side

Air Flow

Duct Indoor unit

Setting an indoor unit address and installation option

05 series installation option

SEG1	SEG2	SEG3	SEG4	SEG5	SEG6
0	5	Use of Auto Change Over for HR only in Auto mode / Use of Cooling only indoor unit of HR	(When setting SEG3) Standard heating temp. Offset	(When setting SEG3) Standard cooling temp. Offset	(When setting SEG3) Standard for mode change Heating → Cooling
SEG7	SEG8	SEG9	SEG10	SEG11	SEG12
1	(When setting SEG3) Standard for mode change Cooling → Heating	(When setting SEG3) Time required for mode change	Compensation option for Long pipe or height difference between indoor units	MTFC ^(*)	-
SEG13	SEG14	SEG15	SEG16	SEG17	SEG18
2	-	-	-	-	Control variables when using hot water / external heater ^(*)
SEG19	SEG20	SEG21	SEG22	SEG23	SEG24
3	-	-	-	Forcing FAN Operation for Heating and Cooling	-

05 series installation option(Detailed)

Option No. : 05XXXX-1XXXX-2XXXX-3XXXX

Option	SEG1		SEG2		SEG3		SEG4		SEG5		SEG6	
Explanation	PAGE		MODE		Use of Auto Change Over for HR only in Auto mode / Use of Cooling only indoor unit of HR		(When setting SEG3) Standard heating temp. Offset		(When setting SEG3) Standard cooling temp. Offset		(When setting SEG3) Standard for mode change Heating → Cooling	
Indication and Details	Indication	Details	Indication	Details	Indication	Details	Indication	Details	Indication	Details	Indication	Details
	0		5		0	Follow product option	0	0 °C	0	0 °C	0	1 °C
					1	Use Auto Change Over for HR only	1	0.5 °C	1	0.5 °C	1	1.5 °C
							2	1 °C	2	1 °C	2	2 °C
							3	1.5 °C	3	1.5 °C	3	2.5 °C
							4	2 °C	4	2 °C	4	3 °C
					2	Use Cooling only indoor unit for HR	5	2.5 °C	5	2.5 °C	5	3.5 °C
							6	3 °C	6	3 °C	6	4 °C
7							3.5 °C	7	3.5 °C	7	4.5 °C	
Option	SEG7		SEG8		SEG9		SEG10		SEG11		SEG12	
Explanation	PAGE		(When setting SEG3) Standard for mode change Cooling → Heating		(When setting SEG3) Time required for mode change		Compensation option for long pipe or height difference between indoor units		MTFC ^(*)		-	
Indication and Details	Indication	Details	Indication	Details	Indication	Details	Indication	Details	Indication	Details	-	
	1		0	1 °C	0	5min	0	Default	0	Default		
			1	1.5 °C	1	7 min	1	^(*) Height difference is more than 30m or ⁽²⁾ Distance is longer than 110m				
			2	2 °C	2	9 min						
			3	2.5 °C	3	11 min						
			4	3 °C	4	13 min	2	^(*) Height difference is 15~30m or ⁽²⁾ Distance is 50~110m	2	Use		
			5	3.5 °C	5	15 min						
			6	4 °C	6	20 min						
			7	4.5 °C	7	30 min						

Option	SEG13		SEG14	SEG15	SEG16	SEG17	SEG18		
Explanation	-		-	-	-	-	Control variables when using hot water / external heater ^(*)		
Indication and Details	Indication	Details	-	-	-	-	Indication	Details	
	2						Set temp. for heater On/Off	Delay time for heater On	
		0					At the same time as thermo on	No delay	
		1					At the same time as thermo on	10 minutes	
		2					At the same time as thermo on	20 minutes	
		3					1.5 °C	No delay	
		4					1.5 °C	10 minutes	
		5					1.5 °C	20 minutes	
		6					3.0 °C	No delay	
		7					3.0 °C	10 minutes	
		8					3.0 °C	20 minutes	
		9					4.5 °C	No delay	
		A					4.5 °C	10 minutes	
		B					4.5 °C	20 minutes	
		C					6.0 °C	No delay	
D	6.0 °C	10 minutes							
E	6.0 °C	20 minutes							
Option	SEG19		SEG20	SEG21	SEG22	SEG23		SEG24	
Explanation	PAGE		-	-	-	Forcing FAN Operation for Heating and Cooling			
Indication and Details	Indication	Details	-	-	-	Indication			
	3					Cooling Fan Setting	Heating Fan Setting		
		0				Disuse	Disuse		
		1				Disuse	Use (Fan: User setting)		
		2				Disuse	Use (Fan: High)		
		3				Disuse	Use (Fan: Low)		
		4				Use (Fan: User setting)	Disuse		
		5				Use (Fan: User setting)	Use (Fan: User setting)		
		6				Use (Fan: User setting)	Use (Fan: High)		
		7				Use (Fan: User setting)	Use (Fan: Low)		
		8				Use (Fan: High)	Disuse		
		9				Use (Fan: High)	Use (Fan: User setting)		
		A				Use (Fan: High)	Use (Fan: High)		
		B				Use (Fan: High)	Use (Fan: Low)		
		C				Use (Fan: Low)	Disuse		
		D				Use (Fan: Low)	Use (Fan: User setting)		
		E				Use (Fan: Low)	Use (Fan: High)		
		F				Use (Fan: Low)	Use (Fan: Low)		

^(*) Height difference : The difference of the height between the corresponding indoor unit and the indoor unit installed at the lowest place.
For example, When the indoor unit is installed 40 m(131.23 ft) higher than the indoor unit installed at the lowest place, select the option "1".

^(*) Distance : The difference between the pipe length of the indoor unit installed at farthest place from an outdoor unit and the pipe length of the corresponding indoor unit from an outdoor unit.
For example, when the farthest pipe length is 100 m(328 ft) and the corresponding indoor unit is 40 m(131.23 ft) away from an outdoor unit, select the option "2".
(100 m(328 ft) - 40 m(131.23 ft) = 60 m(196.85 ft))

^(*) For MTFC option, MTFC(Multi Tenant Function Controller) kit is required.

^(*) Heater operation when the SEG9 of 02 series installation option is set to using hot water heater or when SEG15 is set to using external heater

e.g. 1) Setting 02 series SEG9 = "1" / Setting 05 series SEG18 = "0": Hot water heater is turned on at the same time as the heating thermostat is on, and turned off when the heating thermostat is off.

e.g. 2) Setting 02 series SEG15 = "2" / Setting 05 series SEG18 = "A":

Room temp. ≤ set temp. + f(heating compensation temp.)

- External heater is turned on when the temperature is maintained as 4.5 °C(8.1 °F) for 10 minutes.

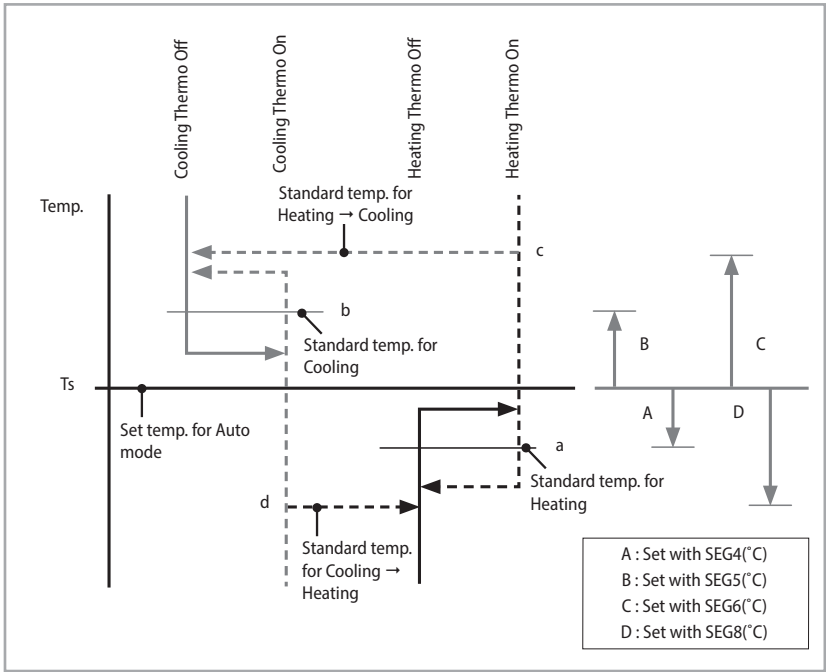
Room temp. ≤ set temp. + f(heating compensation temp.)

- External heater is turned off when the temperature is maintained as 4.5 °C(8.1 °F) + 1 °C(1.8 °F) [1 °C(1.8 °F) is the Hysteresis for On/Off selection.

Setting an indoor unit address and installation option

SEG 3, 4, 5, 6, 8, 9 additional information

When the SEG 3 is set as "1" and follow Auto Change Over for HR only operation, it will operate as follows.



Cooling/Heating mode can be changed when Thermo Off status is maintained during the time with SEG9.

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	
Remote Controller Display												
Indication and Details	Indication	Details	Indication	Details	Indication	Details	Indication	Details	Indication	Details	Indication	Details
	0		D		Option mode		1~6		Tens' digit of SEG		0~9	



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



CAUTION

- If you are using heat pump model, mixed operation mode (two or more indoor units operating in different operation mode simultaneously) is not available when the indoor units are connected to same outdoor unit. If you set the main indoor unit with a remote controller, outdoor unit will operate in the mode which was set in the main indoor unit.

Final Checks and User Tips

To complete the installation, perform the following checks and tests to ensure that the air conditioner operates correctly.

Check the followings.

- Strength of the installation site
- Tightness of pipe connection to detect a gas leak
- Electric wiring connections
- Heat-resistant insulation of the pipe
- Drainage
- Earth conductor connection
- Correct operation (follow the steps below)

Providing information for user

After finishing the installation of the air conditioner, you should explain the following to the user. Refer to appropriate pages in the User's Manual.

1. How to start and stop the air conditioner
2. How to select the modes and functions
3. How to adjust the temperature and fan speed
4. How to adjust the airflow direction
5. How to set the timers
6. How to clean and replace the filters



NOTE

- When you complete the installation successfully, hand over the User's Manual and this Installation Manual to the user for storage in a handy and safe place.

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