Air conditioner **Installation manual**

AM***DN1DKG / AM***DN4*KG

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



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Safety Information

♠ WARNING

Hazards or unsafe practices that may result in severe personal injury or death.

⚠ CAUTION

- Hazards or unsafe practices that may result in minor personal injury or property damage.
- 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.

Symbol	Meaning
	Flammable gas
	Flammable materials
Refrigerant Safety Group A2L	Refrigerant safety group
	Read operating manual
(i	Refer to operating manual
	Read service manual

♠ WARNING

- 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 authorised centres or returned to the retailer so that it can be disposed of correctly and safely.

Safety Information

Installing the unit



↑ WARNING

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



♠ WARNING

- 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.
- Be sure not to perform power cable modification, extension wiring, and multiple wire connection.
 - It may cause electric shock or fire due to poor connection, poor insulation, or current limit override.
 - When extension wiring is required due to power line damage, refer to Step 13 Optional: Extending the power cable in the installation manual.



↑ 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.

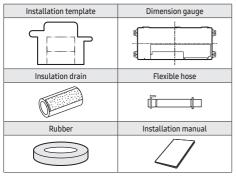
This unit is equipped with electrically powered safety measure. For the safety measures to be effective, the unit must be electrically powered at all times after installation, other than when servicing.

This unit is equipped with a leak detection system for safety. For leak detection to be effective, the unit must be electrically powered at all times after installation, other than when servicing.

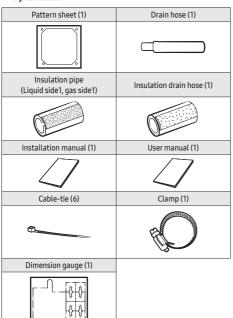
Step 1 Checking and preparing accessories

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

1way cassette



4way cassette



Step 2 Choosing the installation location

Installation location requirements

- 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.
- Before installing the indoor unit, be sure to check whether the chosen location is well-drained.
- The indoor unit must be installed such that it is beyond public access and is not touchable by users.
- Rigid wall without vibration.
- Where it is not exposed to direct sunshine.
- Where the air filter can be removed and cleaned easily.
- A location where animals cannot access and urinate on the product. Ammonia may be generated.
- The amount of refrigerant to add differs, depending on the installation conditions (e.g., the total piping length and the indoor unit combination), and the minimum indoor-unit installation area depends on the final amount of refrigerant.

Be sure to install by referring to the minimum indoorunit installation area depending on the final refrigerant amount, provided in the refrigerant amount table in the outdoor unit installation manual.

WARNING

 Because your air conditioner contains R-32 refrigerant, make sure that it is installed, operated, and stored in a room whose floor area is larger than the minimum required floor area specified.

⚠ CAUTION

- IMPORTANT: It's mandatory to either Follow the table in the Outdoor Unit Installation Manual or follow the federal, state, and/or local regulations regarding the minimum room area allowed for the total refrigerant charge in the system.
- Minimum installation height of indoor unit is 1.8 m for wall, 2.5 m for ceiling, 2.2 m for Ducted.
- Units cannot be installed at heights that typically exceed 2.5m.
- R-32-exclusive wired remote control: Equipped with a safety alarm
- Outdoor unit (AM***DXMD*G): Equipped with a shut-off valve

Do not install the air conditioner in the following places.

- A 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 be reduced, or the air conditioner may be out of order.
- A place with exposure to mineral oil, oil vapor or a cooking area where there is spray (If oil adheres to the heat exchanger, performance degradation, spray or condensation scattering may occur. If oil adheres to a plastic component, the component may deform or get damaged. Such issues may result in a system failure or refrigerant leak.)
- A place with aromatic diffusers, aromatherapy, scented candles or perfumes as the chemicals may react to the product's materials and may result in system failure or refrigerant leaks.

- The place where corrosive gas such as sulphuric acid gas is generated from the vent pipe or air outlet.
- The copper pipe or connection pipe may corrode and the refrigerant may leak.
- The place where there is a machine that generates electromagnetic waves. The air conditioner may not operate normally due to the 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.
- The place that is close to heat sources.
- Do not use the indoor unit for the preservation of food items. plants, equipment, and artwork. This may cause deterioration of their quality.
- Do not install the indoor unit if it has any drainage problems.

Installation conditions for indoor units and wired remote controls

Make sure to install a dedicated R-32-exclusive wired remote control for each indoor unit. See the installation examples below for reference.

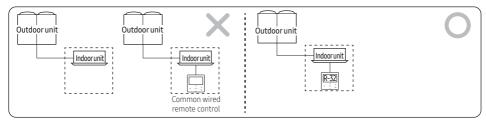
Make sure to use R-32-exclusive wired remote controls. The product will not operate if an R-32-exclusive wired remote control is not located in the vicinity or if users try to control the product using a common wired remote control.

* F694: This error occurs if an installed R-32 indoor unit and R-32-exclusive wired remote control are not a correct combination

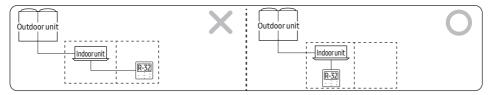
Use R-32-exclusive wired remote controls.

- * MWR-WG01*N
- * R-32-exclusive wired remote controls should be purchased separately.

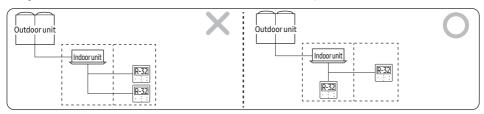
Samsung Electronics is not responsible for any loss or damage to the product resulting from using anything but the specified wired remote control



Make sure R-32-exclusive wired remote controls are located in the same room as the indoor units.

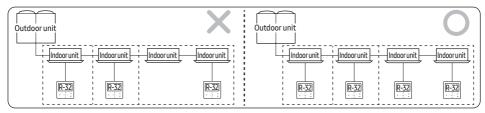


If using two or more R-32-exclusive wired remote controls, at least one of them must be placed in the same room as the indoor units.



Make sure to connect all indoor units to respective R-32-exclusive wired remote controls.

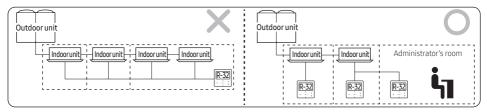
At least one remote control must be installed for each indoor unit, even if multiple indoor units are installed in the same room. Grouped control is not possible.



For the occupancy listed below, the safety alarm system shall also warn at a supervised location, such as the night porter's location, as well as the occupied space:

- rooms, parts of buildings, building where sleeping facilities are provided,
- rooms, parts of buildings, building where people are restricted in their movement,
- · rooms, parts of buildings, building where an uncontrolled number of people are present, or
- rooms, parts of buildings, building to which any person has access without being personally acquainted with the necessarysafety precautions.

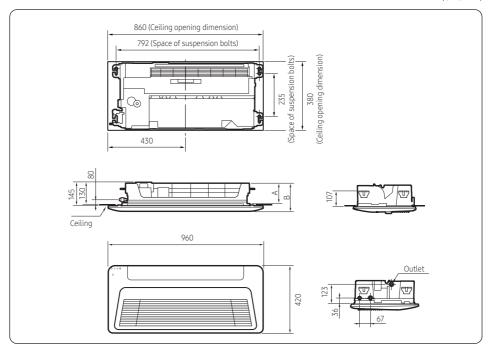
A wired remote control must be installed in the administrator's room, using wired remote control supervisor mode. For details on how to set wired remote control supervisor mode, refer to the wired remote control installation manual.



Indoor unit dimensions

1way cassette (Small)

(Unit: mm)



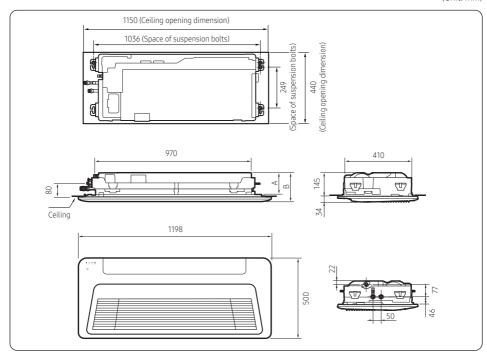
Model		AM017DN1DKG
Model		AM022DN1DKG
A	mm	134
В	mm	180
Liquid pipe connection	mm	Ø6.35
Gas pipe connection	mm	Ø12.7
Drain hose connection	mm	VP20 (outer diameter: Ø26, innder diameter: Ø20)

∴ CAUTION

If the indoor unit is not leveled, drainage water height measurement may be wrong and it cause water may leak into the room.

1way cassette (Medium)

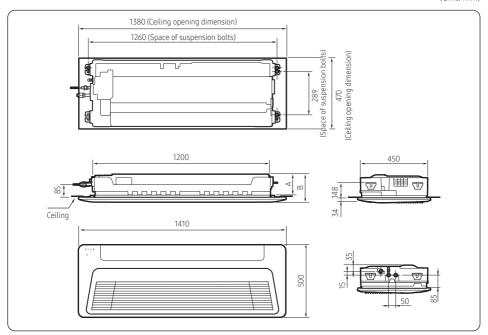
(Unit: mm)



Model		AM028DN1DKG
		AM036DN1DKG
A	mm	130
В	mm	179
Liquid pipe connection	mm	Ø6.35
Gas pipe connection	mm	Ø12.7
Drain hose connection	mm	VP20 (outer diameter: Ø26, innder diameter: Ø20)

1way cassette (Large)

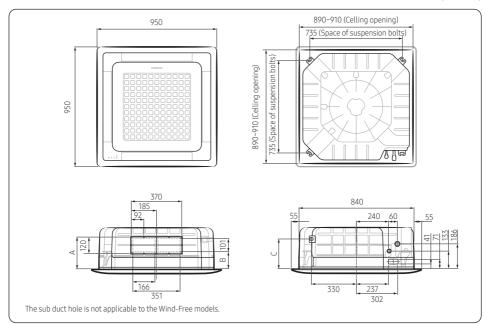
(Unit: mm)



Model		AM056DN1DKG	AM071DN1DKG	
A	mm	133	138	
В	mm	180	180	
Liquid pipe connection	mm	Ø6.35	Ø9.52	
Gas pipe connection	mm	Ø12.7	Ø15.88	
Drain hose connection	mm	VP20 (outer diameter: Ø26, innder diameter: Ø20)		

4way cassette

(Unit: mm)

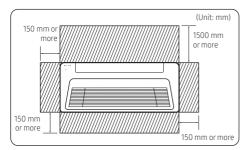


Model		AM028DN4DKG AM036DN	4DKG AM045DN4DKG	AM056DN4DKG	AM071DN4DKG	AM090DN4DKG	AM112DN4DKG	AM128DN4DKG	AM140DN4DKG
Chassis	Chassis Small			Middle		Large			
Α	mm		215			23	38	238	
В	mm		105			12	27	12	27
С	mm		196			222		222	
Net dimension (WxHxD)	mm	840x204x840		840x24	16x840	840x28	38x840		
Liquid pipe connection	mm		6.35		9.52				
Gas pipe connection	mm		12.70		15.88				
Drain hose connection	mm	outer diameter : 32, inner diameter : 25 (VP25)							

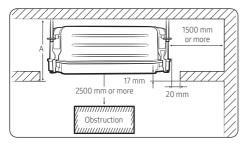
Model		AM022DN4FKG	AM022DN4FKG AM028DN4FKG AM036DN4FKG AM045DN4FKG			AM056DN4FKG AM071DN4Fk	
Chassis		Middle			Large		
А	mm		238			2:	38
В	mm		127			12	27
С	mm	222 222		222			22
Net dimension (WxHxD)	mm		840x246x840			840x28	38x840
Liquid pipe connection	mm		6.35			9.	52
Gas pipe connection	mm		12.70			15.	88
Drain hose connection	mm		outer diameter : 32, inner diameter : 25 (VP25)				

Spacing requirements

1way cassette

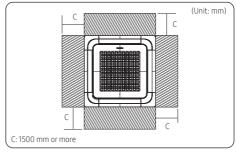


4way cassette



MODEL	AM028DN4DKG AM036DN4DKG AM045DN4DKG AM056DN4DKG AM071DN4DKG	AM090DN4DKG AM112DN4DKG AM022DN4FKG AM028DN4FKG AM036DN4FKG AM045DN4FKG	AM128DN4DKG AM140DN4DKG AM056DN4FKG AM071DN4FKG
Λ .	251	203	775

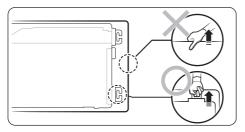
(Unit: mm)



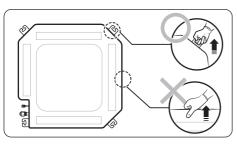
↑ CAUTION

- The indoor unit must be installed according to the specified distances in order to permit accessibility from each side, to guarantee correct operationfssss, maintenance, and repair of the unit. The components of the indoor unit must be reachable and removable under safe conditions for people and the unit.
- 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.

1way cassette



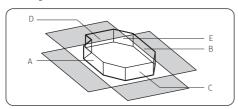
4way cassette



Step 3 Optional: Insulating the body of the indoor unit

If you install a cassette type indoor unit on the ceiling when temperature is over 27°C and humidity is over 80%, you must apply an extra 10 mm thick polyethylene insulation or a similar type of insulation to the body of the indoor unit.

Cut away the part where pipes are pulled out for the insulating work.



Insulate the end of the pipe and some curved area by using separate insulator.



 A: Reference for the outer circumference of the unit (When insulating the body of the indoor unit, use A as the reference for its outer circumference.)

(Unit: mm)

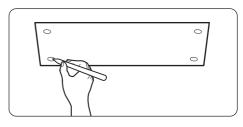
Md	А	В	С	D	Е	
AM028DN4DKG	AM056DN4DKG					
AM036DN4DKG	AM071DN4DKG	910*151	940*151	610*151	650*151	870*870
AM045DN4DKG	-					
AM090DN4DKG	AM028DN4FKG					
AM112DN4DKG	AM036DN4FKG	910*193	940*193	610*193	650*193	870*870
AM022DN4FKG	AM045DN4FKG					
AM128DN4DKG	AM056DN4FKG	910*235	940*235	610*235	650*235	870*870
AM140DN4DKG	AM071DN4FKG	910-233	940"233	010533	030533	0/0"0/0

Step 4 Installing the indoor unit

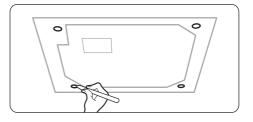
When deciding on the location of the air conditioner the following restrictions must be taken into account.

1 Place the pattern sheet on the ceiling at the spot where you want to install the indoor unit.

1way cassette

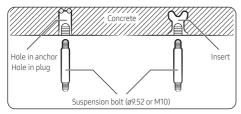


4way cassette

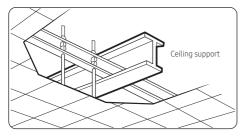


■ NOTE

- 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, be sure to 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.



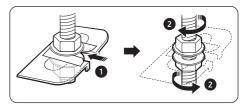
⚠ CAUTION

- Make sure 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 the suspension bolt is more than 1.5 m, you are required to prevent vibration.
- **4** Screw eight pairs of nuts and washers to the suspension bolts, making space for hanging the indoor unit.

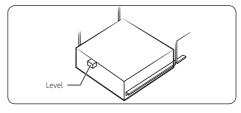
↑ CAUTION

- You must install all of 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. Cut a pad stopper and place it on the suspension bolts to hold the washer. Remove the stopper and screw the nuts to fix the unit.
 - Stoppers are only included in 4WAY products.



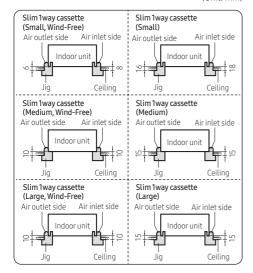
- **6** Check the level of the indoor unit by using a leveler.
 - A tilt of the indoor unit may cause malfunction of a built-in float switch and water leaks.



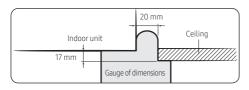
- **7** Adjust the unit to the appropriate position, taking into account the installation area for the front panel.
 - Place the pattern sheet on the indoor unit.
 - Adjust the space between the ceiling and the indoor unit by using a dimension gauge.
 - Fix the indoor unit securely after adjusting the level of the unit by using a leveller.
 - Remove the pattern sheet, connect the other cables. and install the front panel.

1way cassette

(Unit: mm)



4way cassette

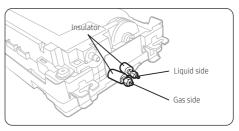


Step 5 Purging inert gas from the indoor unit

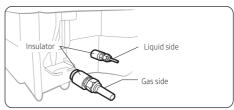
The indoor unit comes with nitrogen gas (inert gas) charged at the factory. Therefore, all inert gas must be purged before connecting the assembly piping.

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

1way cassette



4way cassette

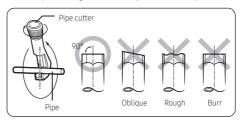


NOTE

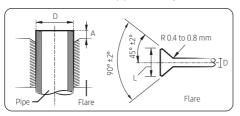
 To prevent dirt or foreign objects from getting into the pipes during installation, do not remove the pinch pipe completely until you are ready to connect the piping.

Step 6 Cutting and 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 them with a pipe cutter, ensuring that the cut edge remains at a 90° angle to the side of the pipe. Refer to the illustrations below for examples of edges cut correctly and incorrectly.

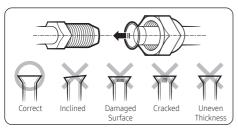


- **3** To prevent any gas from leaking out, remove all burrs at the cut edge of the pipe, using a reamer.
- 4 Slide a flare nut on to the pipe and modify the flare.

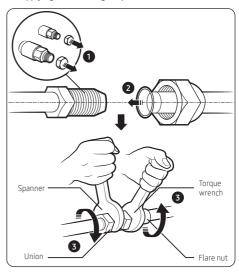


Outer Diameter (D)	Depth (A)	Flare dimension (L)
Ø6.35 mm	1.3 mm	8.7 to 9.1 mm
Ø9.52 mm	1.8 mm	12.8 to 13.2 mm
Ø12.70 mm	2.0 mm	16.2 to 16.6 mm
Ø15.88 mm	2.2 mm	19.3 to 19.7 mm
Ø19.05 mm	2.2 mm	23.6 to 24.0 mm

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



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 (mm)	Torque (N•m)
Ø6.35	14 to 18
Ø9.52	34 to 42
Ø12.70	49 to 61
Ø15.88	68 to 82
Ø19.05	100 to 120

(1 N•m=10 kgf•cm)

Step 7 Connecting the assembly pipes to the refrigerant pipes

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 and has no dust.

NOTE

- If the pipes must be shortened, see Step 6 Cutting and flaring the pipes on page 15.
- 2 Be sure to use an insulator thick enough to cover the refrigerant tube to protect the condensate water on the outside of the pipe falling onto the floor and to improve the efficiency of the unit.
- 3 Cut off any excess foam insulation.
- 4 Make sure that there are no cracks or waves on the bent area.

- 5 It would be necessary to double the insulation thickness (10 mm 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 connecting the indoor and outdoor units.

↑ CAUTION

- 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 4.2 MPa and for a burst pressure of at least 20.7 MPa. Copper pipe for hydrosanitary 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.
- If the pipes require brazing, make sure that oxygen free nitrogen (OFN) is flowing through the system.
- Nitrogen blowing pressure range is 0.02 to 0.05 MPa.

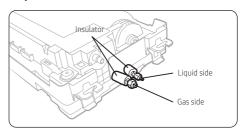
Step 8 Performing the gas leak test

To identify potential gas leaks on the indoor unit, inspect the connection area of each refrigerant pipe using a leak detector for R-32.

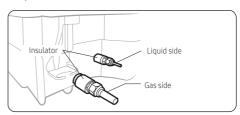
Before recreating the vacuum and recirculating the refrigerant gas, pressurize the whole system with nitrogen (using a cylinder with a pressure reducer) at a pressure above 4.1 MPa in order to immediately detect leaks on the refrigerant fittings.

Made vacuum for 15 minutes and pressurizing system with nitrogen.

1way cassette



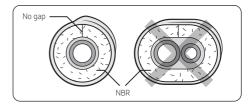
4way cassette



Step 9 Insulating the refrigerant pipes

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 Acrylonitrile
Butadien Rubber separately around each refrigerant pipe.

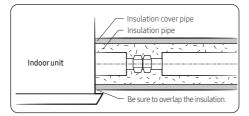


NOTE

• Always make the seam of pipes face upwards.

↑ CAUTION

- The insulation has to be produced in full compliance wirh European regulation EEC / EU 2037 / 2000 requiring the use of sheaths insulation without using CFC and HCFC gases for health and the environment.
- 2 Wind insulating tape around the pipes and drain hose avoiding compressing the insulation too much.

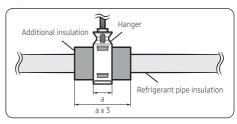


↑ CAUTION

- Be sure to wrap insulation tightly without any gaps.
- 3 Finish wrapping insulating tape around the rest of the pipes leading to the outdoor unit.
- The pipes and electrical cables connecting the indoor unit with the outdoor unit must be fixed to the wall with suitable ducts.

♠ CAUTION

- Must fit tightly against body without any gap.
- Make sure that all refrigerant connection must be accessible for easy maintenance and detachment.
- 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.
- All refrigerant connection must be accessible, in order to permit eithernit maintenance or removal.



- 5 Select the insulation of the refrigerant pipe.
 - Insulate the gas side and liquid side pipe, noting the insulation thickness that must differ according to the pipe size.
 - Standard: Less than an indoor temperature of 30°C, with humidity at 85%. If installing in a high humidity environment, use one grade thicker insulator by referring to the table below. If installing in an unfavourable environment, use thicker one.
 - The heat-resistance temperature of the insulator must be more than 120°C.

		Insulation T		
Pipe	Pipe size	Standard	High humidity	Remarks
	(mm)	[30°C, 85%]	[30°C, over 85%]	
		EPDI		
Liquid	Ø6.35 to Ø9.52	9t	←	
pipe	Ø12.7 to Ø50.80	13t	←	Internal
	Ø6.35	13t	19t	temperature
Gas pipe	Ø9.52 to Ø25.40	104	25t	is higher than 120°C
	Ø28.58 to Ø44.45	19t	32t	
	Ø50.80	25t	38t	

 When installing insulation in the places and conditions below, use the same insulation that is used for high humidity conditions.

<Geological condition>

High humidity locations such as shorelines, hot springs, lake or riversides, and ridges (when part of the building is covered by earth and sand)

Operation purpose condition>

Restaurant ceiling, sauna, swimming pool etc.

<Building construction condition>

Ceilings frequently exposed to moisture and cooling are not covered. For example, pipes installed at a corridor of a dormitory and studio or near an exit that opens and closes frequently.

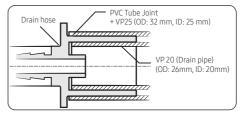
Places (where the pipes are installed) that are highly humid due to a lack of ventilation.

- 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 liquid side pipe, use 1 grade thicker insulator.
- Refrigerant pipe after EEV kit and MCU
 - Install the gas side and liquid side pipes, leave 10mm of space.
 - When contacting the gas side and liquid side pipe, use 1 grade thicker insulator.

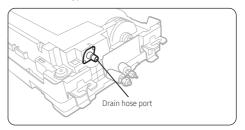
Step 10 Installing the drain hose and drain pipe

1way cassette

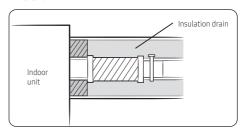
- Fix the flexible hose to the drain pipe.
 - The connection port of the flexible hose and PVC drain pipe must be fixed with PVC adhesives.
 Check out that the connected part doesn't leak.



- 2 Connect the flexible hose to the drain hose port.
 - Make sure that a rubber ring is installed on the drain hose port.
 - The drain hose port location differs depending on the unit types.



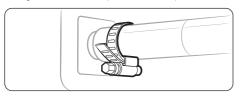
3 Cover the flexible hose with the provided insulation drain.



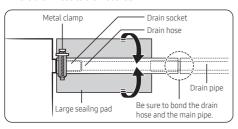
- 4 Install the drain pipe as shortly as possible (field supply).
- 5 Insulate the whole drain pipe inside the building (field supply).
 - The whole drain pipe must be insulated with 5t (or more) insulation to prevent condensation.

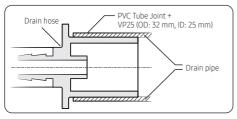
4way cassette

- Push the supplied drain hose as far as possible over the drain socket.
- 2 Tighten the metal clamp as shown in the picture.



- 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.

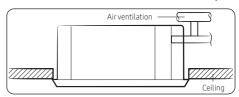




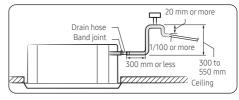
↑ CAUTION

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

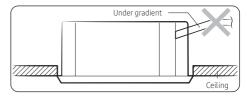
• Install air ventilation to drain condensation smoothly.



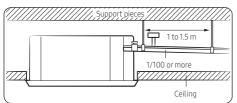
 If it is necessary to increase the height of the drain pipe, install the drain pipe straight within 300 mm from the drain hose port. If it is raised higher than 550 mm, there may be water leaks.



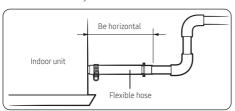
 Do not give the hose an upward gradient beyond the connection port. This will cause water to flow backwards when the unit is stopped, resulting in water leaks.



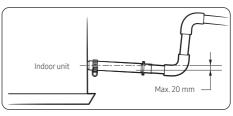
 Do not apply force to the piping on the unit side when connecting the drain hose. The hose should not be allowed to hang loose from its connection to the unit.
 Fasten the hose to a wall, frame or other support as close to the unit as possible.



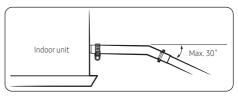
Install horizontally.



Max. allowable axis gap.

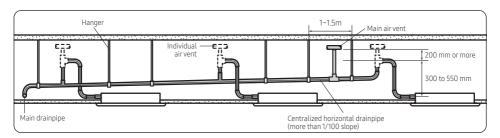


Max. allowable bending angle.



■ NOTE

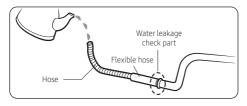
• If a concentrated drain pipe is installed, refer to the figure below.



- If 3 or more units are installed, install the main air vent at the front of the farthest indoor unit from the main drain pipe.
- To prevent water from flowing back to indoor units, install an individual air vent at the top of each indoor unit.
 - The air vents should be T or 7 shaped to prevent dust or foreign substances from entering.
 - You may not need to install air vent if the horizontal drain pipe is in proper slope.

Step 11 Performing the drainage test

- Do a leak test at the connection part of the flexible hose and the drian pipe:
 - Connect a general hose to the connection part of the flexible hose of the indoor unit, and pour in some water.



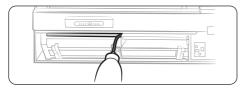
- After pouring some water, reassemble the rubber cap on the connection part of a flexible hose of the indoor unit and firmly tighten it with a band to prevent leakage.
- Check the leak test at the part where the adhesive for the flexible hose and the drian pipe is used.



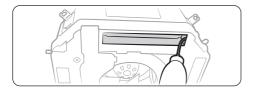
↑ CAUTION

- The leak test must be performed for at least 24 hours.
- Check the condensed water drainage:
- a Pour about 2 liters of water into the indoor unit drain pan as shown in the picture.

1way cassette



4way cassette



- **b** When the electric cable connection is completed
 - Turn on the indoor unit and outdoor unit.
 - Operate in the Cool mode.

⚠ CAUTION

Only in the Cool mode, you can check the correct operation of the drain pump.

When the electric cable connection has not been completed

- Remove the control box cover of the indoor unit.
- Connect the power supply to the L and N terminals.
- Reassemble the control box cover and turn on the indoor unit

- When the float switch is not detected due to insufficient water on the drain pan, the drain pump will not work.
- If the power supply is directly connected to the L and N terminals, communication error message might appear.
- After completing the drainage check, turn the unit off and disconnect the power supply.
- Reassemble the control box cover.
 - **c** Check whether the drain pump works correctly.
 - d Check whether the drainage is performing correctly at the end of the drain pipe.
 - e Check for leakage at the drain pipe and drain pipe connection part.
 - f When leakage occurs, check whether the indoor unit is level and check the drain hose connection part, drainpipe connection part and drain pump connection.
 - **q** When the drainage check is completed and the condensed water remains on the drain pan, remove the water.

Step 12 Connecting the power and communication cables

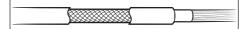
Power and communication cable connection

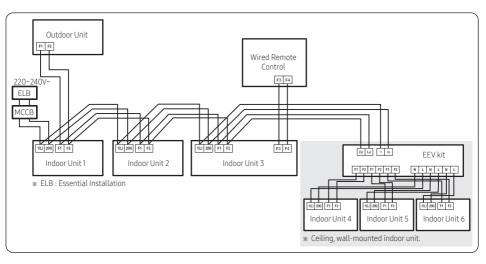
- Before wiring work, you must turn off all power source.
- Connect the power and communication cable among the units within maximum length to set the voltage drop under 10%.
- The auxiliary circuit breaker (ELCB, MCCB, ELB) should be considered more capacity if many indoor units are connected from one breaker.
- Connect F3, F4(for communication) to the communication cable of the wired remote control.
- Tighten the electric wires with a proper tool within the torque limit to connect and fix them firmly, and then organize the wires to prevent outside pressure being exerted on the covers and other parts. Failure to do so may result in overheating, electric shock, and fire.

Tightening torque (N•m)				
M3.5	0.8 ~ 1.2			
M4	1.2 ~ 1.8			

(1 N•m = 10 kgf•cm)

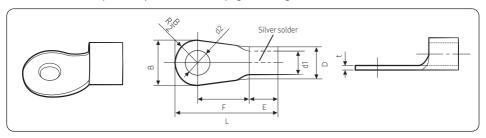
- To protect the product from water and possible shock, you should keep the power and the communication cables of the indoor and outdoor units in the iron pipe.
- Connect the power cable to the auxiliary circuit breaker (ELCB, MCCB, ELB).
- Keep distances of 50mm or more between power cable and communication cables.
- 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.
- When installing the indoor unit in a computer room, use the double shielded (tape aluminum / polyester braid + copper) cable of FROHH2R type.





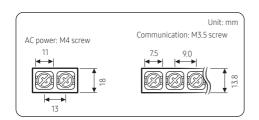
Selecting the crimping terminal lug

- 1 Select the crimping terminal lug based on the norminal dimension of the power cable.
- 2 Cover the connection part of the power cable and crimping terminal lug to insulate it.



Norminal	Norminal	В		1	D		d1		F	L	d	2	t							
dimensions for cable (mm²)	dimensions forscrew (mm)	Standard dimension (mm)	Allowance (mm)	Standard dimension (mm)	Allowance (mm)	Standard dimension (mm)	Allowance (mm)	Min.	Min.	Max.	Standard dimension (mm)	Allowance (mm)	Min.							
1.5	4	6.6	± 0.2	3.4	+0.3	1.7	± 0.2	4.1	6	16	4.3	+0.2	0.7							
	4	8										-0.2							0	
2.5	4	6.6	± 0.2	4.2	+0.3	2.3	± 0.2	6		17.5	4.3	+0.2	0.8							
2.3	4	8.5	± 0.2	4.2	-0.2	2.3	± 0.2	0	6	17.3	4.3	0	0.0							
4	4	9.5	± 0.2	5.6	+0.3	3.4	± 0.2	6	5	20	4.3	+0.2	0.9							

Specifications of the terminal blocks



Power supply (single phase)	МССВ	ELB
Min : 198V	XA	XA, 30 mA
Max : 242V	XA	0.1 s
		Communication
Power cable	Earth cable	cable

Decide the power cable specification and maximum length by formula ${\bf 2}.$

1 Decide the capacity of ELB and MCCB by below formula.

The capacity of ELB, MCCB X[A] = 1.25 X 1.1 X ΣAi



- X: The capacity of ELB, MCCB
- ΣAi : Sum of rating currents of each indoor unit.

Rated currents

Unit	Model	Rating current (A)
	017	0.14
	022	0.15
AM***DN1DKG*	**028**	0.23
AMDIVIDEG	**036**	0.25
	056	0.28
	071	0.40
	028	0.25
	036	0.27
	045	0.30
	056	0.32
AM***DN4DKG*	**071**	0.35
	090	0.45
	112	0.60
	128	0.75
	140	0.85
	022	0.14
	028	0.17
ANALYTONIATIO	**036**	0.23
AM***DN4FKG*	**045**	0.29
	056	0.38
	071	0.58

2 Decide the power cable specification and maximum length within 10% voltage drop among indoor units.

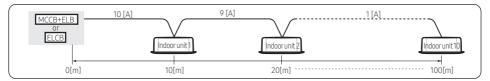
n	Coef×35.6×Lk	
Σ(×ik)	<10% of input voltage[V]
k=1	1000×Ak	



- Coef: 1.55
- Lk: Distance among each indoor unit[m], Ak: Power cable specification[mm2]
- ik: Running current of each unit[A]

Example of Installation

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



· Apply following equation.



- Calculation
 - Installing with 1 sort wire.

- -(2.2+2.0+1.8+1.5+1.3+1.1+0.9+0.7+0.4+0.2)=-11.2 [V]
 - Installing with 2 different sort wire.

-(1.4+1.2+1.8+1.5+1.3+1.1+0.9+0.7+0.4+0.2)=-10.5 [V]

↑ CAUTION

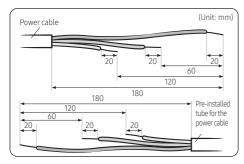
- Select the power cable in accordance with relevant local and national.
- Wire size must comply with local and national code.
- You should connect the power cable into the power cable terminal and fasten it with a clamp.
- The unbalanced power must be maintained within 10% of supply rating among whole 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
- Connect the power cable to the auxiliary circuit breaker.
 An all pole disconnection from the power supply must be incorporated in the fixed wiring (≥3mm).
- You must keep the cable in a protection tube.
- 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(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.

Step 13 Optional: Extending the power cable

Prepare the following tools.

Tools	Spec	Shape
Crimping pliers	MH-14	
Connection sleeve (mm)	20 x Ø 6.5 (H x OD)	
Insulation tape	Width 19 mm	
Contraction tube (mm)	70 x Ø 8.0 (L x OD)	

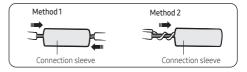
- 2 As shown in the figure, peel off the shields from the rubber and wire of the power cable.
 - Peel off 20 mm of cable shields from the preinstalled tube.



⚠ CAUTION

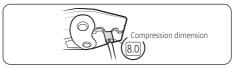
- For information about the power cable specifications for indoor and outdoor units, refer to the installation manual
- After peeling off cable wires from the pre-installed tube, insert a contraction tube.

- 3 Insert both sides of core wire of the power cable into the connection sleeve.
 - Method 1: Push the core wire into the sleeve from both sides.
 - Method 2: Twist the wire cores together and push it into the sleeve.

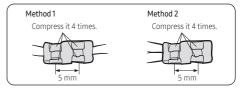


∴ CAUTION

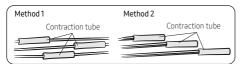
- If cable wires are connected without using connecting sleeves, their contact area becomes reduced, or corrosion develops on the outer surfaces of the wires (copper wires) over a long time. This may cause an increase of resistance (reduction of passing current) and consequently may result in a fire.
- 4 Using a crimping tool, compress the two points and flip it over and compress another two points in the same location.
 - The compression dimension should be 8.0 mm².



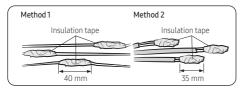
 After compressing it, pull both sides of the wire to make sure it is firmly pressed.



5 Apply heat to the contraction tube to contract it.



6 Wrap it with the insulation tape twice or more and position your contraction tube in the middle of the insulation tape.



7 After tube contraction work is completed, wrap it with the insulation tape to finish. Three or more layers of insulation are required.



⚠ CAUTION

- Make sure that the connection parts are not exposed to outside.
- Be sure to use insulation tape and a contraction tube made of approved reinforced insulating materials that have the same level of withstand voltage with the power cable. (Comply with the local regulations on extensions.)

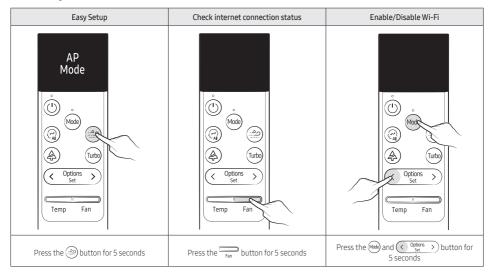
↑ WARNING

- 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.



Step 14 Optional: LED Display indicator specifications when checking Wi-Fi Easy Setup and Wi-Fi status

The wireless remote control can be used for Easy Setup, checking the internet connection status and connecting or disconnecting Wi-Fi.



LED Indicator Status

1-way Cassette			LED lam	p display			
		Operation	Timer	Fan	Filter Cleaning	Remarks	Measure
		ம	Ü	F			
	AP entry	•	•	•	•	All LED lights are on	-
	Check device	•	•	•	•	All LED lights flash	
Easy Setup	Registering devices	•	•	•	•	All LED lights flash one after another	
	Connected	•	•	•	•	All LED lights flash for 3 seconds	
	Connection failed	Х	Х	Х	Х	All LED lights turn off, and the system operates in the previous mode	AP settings, change Wi-Fi module
Check internet	If AP/internet is connected successfully	•	•	•	•	All LED lights turn on for 5 seconds	Normal operation
connection status	If no AP connection	Х	Х	Х	Х	All LED turns off for 5 seconds	AP settings, change Wi-Fi module
Wi-Fi	Enable		0	•	•	All I ED liable flesh once	-
VVI-FI	Disable		•	•		All LED lights flash once	-
If AP is set up using the wired remote controller		•	•	•	•	All LED lights flash simultaneously (max. 5 mins)	-
Connection info reset		•	•	•	•	All LED lights flash in order (order: Operation → ••• → filter cleaning)	-
All devic	es reset	•	•	•	•	All LED lights flash in order (order: filter cleaning→ ••• → On/Off	-

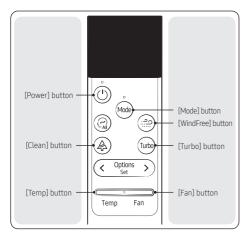
4-way Cassette			LED Di	splay			
		Operation	Defrost	Timer	Filter Cleaning	Remarks	Measure
		U	*	(1)			
	AP entry	•	•	•	•	All LED lights are on	-
	Check device	•	•	•	•	All LED lights flash	
Easy Setup	Registering devices	•	•	•	•	All LED lights flash one after another	
	Connected	•	•	•	•	All LED lights flash for 3 seconds	
	Connection failed	X	Х	Х	X	All LED lights turn off, and the system operates in the previous mode	AP settings, change Wi-Fi module
Check internet	If AP/internet is connected successfully	•	•	•	•	All LED lights turn on for 5 seconds	Normal operation
connection status	If no AP connection	X	X	Х	X	All LED turns off for 5 seconds	AP settings, change Wi-Fi module
Wi-Fi	Enable		0	•	•	All LED II L. G. I	-
VVI-FI	Disable					All LED lights flash once	-
If AP is set up using contr		•	•	•	•	All LED lights flash simultaneously (max. 5 mins)	-
Connection info reset		•	•	•	•	All LED lights flash in order (order: Operation → ••• → filter cleaning)	-
All devic	es reset	•	•	•	•	All LED lights flash in order (order: filter cleaning→ ••• → On/Off)	-

Step 15 Setting the indoor unit addresses and the installation options

You cannot set both indoor unit addresses and the installation options in a batch: set both respectively.

Common steps for setting the addresses and options

Remote controls

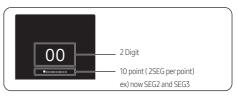


NOTE

- The remote control display and buttons may vary depending on the model.
- 1 Enter the mode for setting the options.
 - a Reset remote control: Temp button Down +

 Fan button Down + (Note) Press for 10 seconds
 - **b** You can see the "SW Initialization" message and enter the following in 5 seconds.
 - c Press button and button for 5 seconds.

d Make sure that you are entered to the mode for setting options.



2 Set the option values.

↑ CAUTION

- The total number of available options are 24: SEG1 to SEG24
- Because SEG1, SEG7, SEG13 and SEG19 are the page options used by the previous remote control models, the modes to set values for these options are skipped automatically.
- Set a 2-digit value for each option pair in the following order.
- You can see 20 SEG (except SEG1, SEG7, SEG13, SEG19)
 SEG2 → → SEG6 → SEG8 → → SEG12 → SEG14 → → SEG18 → SEG20 → ... → SEG24

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

- You can set the next SEG by pressing the web button.
- You can change the digit value through the following operation.

Left value: Temp up or down, range: 0 ~ F Right value: ap up or down, range: 0 ~ F

Take the steps presented in the following table:

	Steps	Remote control display
1	Set the SEG2 and SEG3 values: a Set the SEG2 value by pressing the button repeatedly until the value you want to set appears on the remote control display.	00
	 b Set the SEG3 value by pressing the button repeatedly until the value you want to set appears on the remote control display. When you press the button, values appear in the following order: □ → □ → □ 	00
2	Press the we button to move to the next page.	00
3	Set the SEG4 and SEG5 values: a Set the SEG4 value by pressing the button repeatedly until the value you want to set appears on the remote control display.	00
	 b Set the SEG5 value by pressing the button repeatedly until the value you want to set appears on the remote control display. When you press the button, values appear in the following order: □ → □ → □ 	00
4	Press the button to move to the next page.	00

	Steps	Remote control display
5	Set the SEG6 and SEG8 values: a Set the SEG6 value by pressing the to set appears on the remote control display.	00
	 b Set the SEG8 value by pressing the button repeatedly until the value you want to set appears on the remote control display. When you press the button, values appear in the following order: □ • □ • □ • □ 	00
6	Press the web button to move to the next page.	00
7	Set the SEG9 and SEG10 values: a Set the SEG9 value by pressing the button repeatedly until the value you want to set appears on the remote control display.	00
	 b Set the SEG10 value by pressing the Fan button repeatedly until the value you want to set appears on the remote control display. When you press the Fan or Fan or Fan button, values appear in the following order: □ • □ • ··· E • □ 	00
8	Press the 🖦 button to move to the next page.	00

	Steps	Remote control display
9	Set the SEG11 and SEG12 values: a Set the SEG11 value by pressing the Tempo button repeatedly until the value you want to set appears on the remote control display.	00
	 b Set the SEG12 value by pressing the Fan button repeatedly until the value you want to set appears on the remote control display. When you press the Fan or Fan button, values appear in the following order: □ → □ → □ → □ 	SEG11 00 SEG12
10	Press the web button to move to the next page.	00
11	Set the SEG14 and SEG15 values: a Set the SEG14 value by pressing the button repeatedly until the value you want to set appears on the remote control display. b Set the SEG15 value by pressing the button repeatedly until the value you want to set appears on the remote control display.	00 SEG14
	When you press the Fan or Fan button, values appear in the following order: □ → □ → □ ▼ □	
12	Press the 📾 button to move to the next page.	00

	Steps	Remote control display
13	Set the SEG16 and SEG17 values: a Set the SEG16 value by pressing the Tempo button repeatedly until the value you want to set appears on the remote control display.	00
	 b Set the SEG17 value by pressing the button repeatedly until the value you want to set appears on the remote control display. When you press the button, values appear in the following order: □ → □ → □ E → E 	SEG16 OO SEG17
14	Press the button to move to the next page.	00
15	Set the SEG18 and SEG20 values: a Set the SEG18 value by pressing the Femp button repeatedly until the value you want to set appears on the remote control display.	00
	 b Set the SEG20 value by pressing the button repeatedly until the value you want to set appears on the remote control display. When you press the button, values appear in the following order: □ → □ → □ E → E 	00
16	Press the button to move to the next page.	00

	Steps	Remote control display
17	Set the SEG21 and SEG22 values:	
	a Set the SEG21 value by pressing the frame button repeatedly until the value you want to set appears on the remote control display.	00
	 b Set the SEG22 value by pressing the Fam button repeatedly until the value you want to set appears on the remote control display. When you press the Fam or Fam button, values appear in the following order: □ → □ → □ ← E 	00
18	Press the 🐽 button to move to the next page.	00
19	Set the SEG23 and SEG24 values:	
	a Set the SEG23 value by pressing the Temp button repeatedly until the value you want to set appears on the remote control display.	00
	b Set the SEG24 value by pressing the Fam button repeatedly until the value you want to set appears on the remote control display. When you press the Fam or Fam button, values appear in the following order: □ → □ → □ E → □	00

3 Check whether the option values you have set are correct by pressing the button repeatedly.



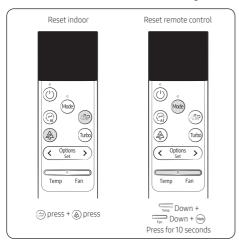
EX) AM***FE4DCG 020010-100000-2000C0-300000

4 Save the option values into the indoor unit:

Point the remote control to the remote control sensor on the indoor unit and then press the (1) button on the remote control twice.

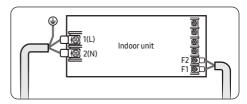
Make sure that this command is received by the indoor unit. When it is successfully received, you can hear a short sound from the indoor unit. If the command is not received, press the ① button again.

- 5 Check whether the air conditioner operates following the option values you have set:
 - a Reset the indoor or outdoor unit.
 - Indoor Unit: Press button + button for 5 seconds
 - · Outdoor Unit: Press the K3 button
 - b Reset remote control: Temp button Down +
 Temp but



Setting the indoor unit addresses (MAIN/RMC/MCU)

- 1 Make sure that the power is supplied to the indoor unit.
 - If the indoor unit is not plugged in, it must include a power supply.
- 2 Make sure that the panel or display is connected to the indoor unit so that it can receive options.



- 3 Set an address (MAIN/RMC/MCU port) for each indoor unit using the remote control, according to your air conditioning system plan.
 - The indoor unit addresses (MAIN/RMC/MCU port) are set to 0A0000-100000-200000-300000 by default.

NOTE

- Also set the MCU and Indoor units address by using Addon → 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

Setting the installation options in a batch

Option No. for an indoor unit address: 0AXXXX-1XXXXXX-2XXXXXX-3XXXXX

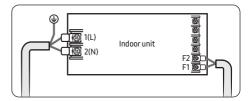
Option	SEG	1	SEC	52	SE	G3	S	EG4	SE	G5	SEC	66				
Function	Pag	e	Moi	de	Setting ma	ain address		of an indoor address	10-digit of unit a	an indoor ddress	The single of indoor					
	Indication	Details	Indication	Details	Indication	Details	Indication	Details	Indication	Details	Indication	Details				
Indication					0	No main address										
and details	0		А		1	Main address setting mode	0 to 9	10-digit	0 to 9	A single digit	0 to 3	A single digit				
Option	SEG	7	SEC	i8	SE	G9	SI	EG10	SE	G11	SEG	12				
Function	Pag	e	-		Setting RN	AC address		-	Group cha	nnel (x16)	Group a	ddress				
	Indication	Details			Indication	Details			Indication Details		Indication	Details				
					0	No RMC address										
Indication and details	1		1		1		-		1	RMC address setting mode		-	RMC1	0 to F	RMC2	0 to F
Option	SEG	13	SEG	14	SE	G15	SI	EG16	SE	G17	SEG	18				
Function	Pag	e	-			ICU PORT ress	10-digit of	MCU address	1-digit	of MCU	MCU POR	Γ address				
	Indication	Details			Indication	Details	Indication	Details	Indication	Details	Indication	Details				
	macadori Details	O No		No MCU PORT												
Indication and details		-		1	MCU PORT address setting mode	0~1	10-digit	0~9	1-digit	A~F	PORT Location					

↑ CAUTION

- If you enter A to F to the SEG5 or SEG6, the indoor unit main address is not changed.
- If you enter 0 to the SEG3, the indoor unit maintains the previous main address although you enter the option value for the SEG5 or SEG6.
- If you enter 0 to the SEG9, the indoor unit maintains previous RMC address although you enter the option value for the SEG11 or SEG12.
- You cannot set the SEG11 or SEG12 to F value at the same
- 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 the indoor unit installation option (suitable for the condition of each installation location)

- 1 Make sure that the power is supplied to the indoor unit.
 - If the indoor unit is not plugged in, it must include a power supply.
- 2 Make sure that the panel or display is connected to the indoor unit so that it can receive options

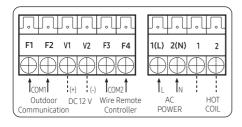


- 3 Set an address for each indoor unit using the remote control, according to your air conditioning system plan.
 - The indoor unit addresses are set to 020010-100000-200080-300000 by default.
 - The SEG20 option, Individual control with remote control, allows you to control multiple indoor units individually by using the remote control.

Installation options for the 02 series

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	Settings for load operation during heater control Fan control during defrost mode / heater control during defrost mode	EEV Step when heating stops	Dew removal operation in wind free mode
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	S-Plasma ion	Buzzer control / whether to use humidity sensor / whether to use APP UX DSP (Dual Set Point) / whether to use R-32 sensor	Hours of filter usage
SEG19	SEG20	SEG21	SEG22	SEG23	SEG24
3	Individual control of a	Heating setting compensation / Removing condensate	Adjusted EEV step of stopped unit during oil	Motion detect sensor	-

- Even if you set the Use of drain pump (SEG8) option to 0, it is automatically set to 2 (the drain pump is used with 3 minute delay).
- If you set the Maximum filter usage time (SEG18) option to a value other than 2 and 6, it is automatically set to 2 (1000 hours).
- If you set an option to a value that is out of range specified above, the option is automatically set to 0 by default.
- The SEG5 option (Use of central control) is set to 1 (Use) by default. Therefore, you don't need to set the SEG5 option additionally.
 Note that even if the central control system is not connected, no errors occur. If you want a specific indoor unit not to be controlled by the central control system, set the SEG option of that indoor unit to 0 (Disuse).
- The external output of SEG15 is generated via MIM-B14 connection. (Refer to the manual of MIM-B14.)
- If you set the Individual control with remote control (SEG20) option to a value other than 0 to 4, it is automatically set to 0 (Indoor1).



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

02 series installation option (Detailed)

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

Option	SE	:G1	SE	G2	SEC	33		SEG4		SEG	5	9	SEG6					
Explanation	PA	GE	МО	DE	Evaporato	or Drying		xternal room tempe fan operation whe		Use of contr		FAN RPM	compensation					
								Det	tails									
	Indication	Details	Indication	Details	Indication	Details	Indication	Use of External room temperature sensor	Minimizing fan operation when thermostat is off	Indication	Details	Indication	Details					
							0	Default	Default									
					0	Disuse	1	Use	Disuse									
							2	Disuse	Use (Heating) (*2)	0	Diama	0	Disuse					
						Use	3	Use	Use (Heating) (*2)	1 0	Disuse							
					2	(5min)	4	Disuse	Use (Cooling) (*2)									
						(*1)	5	Use	Use (Cooling) (*2)									
Indication			0				Use	6	Disuse	Use (Heating / Cooling) (*2)			1	RPM compensal				
and Details					0		0		0 2		4	(10min)	7	Use	Use (Heating / Cooling) (*2)			
			0	0	0	0	2			(*1)	8	Disuse	Use (Cooling Ultra Low Fan) (*2)					
														9	Use	Use (Cooling Ultra Low Fan) (*2)	1	Use
						6	Use (30min) (*1)	А	Disuse	Use (Heating / Cooling Ultra Low Fan) (*2)			2	High ceili KIT (4wa model on				
								(^1)	В	Use	Use (Heating / Cooling Ultra Low Fan) (*2)							

Option	SE	G7	SE	G8	SEC	59		SEG10		SEG	11	S	EG12							
Explanation	PA	GE	Use of dr	ain pump	Use of ho		Fan control during defrost mode / Heater control during defrost mode		EEV Step heating											
								Detai	l											
	Indication	Details	Indication	Details	Indication	Details	Indication	Fan control during defrost mode	Heater control during defrost mode	Indication	Details	Indication	Details							
							0	Fan Off	Off											
							1	Fan turns on when heater turns on	Off				(Default)							
							2	Fan Off	Off				Maintain							
								0 Dis		Disuse	0	Disuse	3	Fan turns on when heater turns on	Off	0	Default	0	blade status in wind free	
							4	Fan Off	On				mode							
							5	Fan turns on when heater turns on	On											
Indication												6	Fan Off	On						
and Details	1					1		1		1	Use	1	Use (*3)	7	Fan turns on when heater turns on	On				
	1	1	1 1	'	USE	'	USE (^5)	8	Fan Off	Off										
	I		'	Use			9	Fan turns on when heater turns on	Off											
							А	Fan Off	Off		Adjusted		Cooling							
								When an indoor			В	Fan turns on when heater turns on	Off	1	EEV Step setting	1	operation by opening the blade			
			unit stops,			С	Fan Off	On				Didde								
				2	drain pump will	3	Use (*3)	D	Fan turns on when heater turns on	On										
			operate for 3min			E	Fan Off	On												
			I IUI JIIIII			F	Fan turns on when heater turns on	On												

Option	SEG	513	SEG	14		SEG15	SEG	116			SEG17			SEG	18
Explanation	PAI	GE	Use of extern	nal control	control / Ex / Cooling	e output of external sternal heater signal operation signal / ling control signal	S-Plasr	ma ion	Buzzer co whether to	use APP U)	ether to use (DSP (Dual se R-32 sens	Set Point)		Hours of filt	erusage
											Det				
	Indication	Details	Indication	Details	Indication	Details	Indication	Details	Indication	Buzzer Control	Humidity sensor	APP UX DSP	R-32 sensor	Indication	Details
			0	Disuse	0	External control			0	Use Buzzer	Disuse	Disuse	Disuse		
				Disuse	0	(Thermo On)			1	Disuse Buzzer	Disuse	Disuse	Disuse		
					1	External control			2	Use Buzzer	Use	Disuse	Disuse		
				ON/OFF		(Operation On)		Disuse	3	Disuse Buzzer	Use	Disuse	Disuse		1000
	Indication and Details 2		1	control	2	External heater	0	Disuse	4	Use Buzzer	Disuse	Use	Disuse	2	Hour
		2 2		2	signal (*4)			5	Disuse Buzzer	Disuse	Use	Disuse			
				_	External heater			6	Use Buzzer	Use	Use	Disuse			
and Details			7	OFF control	3	signal (*4)			7	Disuse Buzzer	Use	Use	Disuse		
						Cooling operation			8	Use Buzzer	Disuse	Disuse	Use		
					4	signal (*5)			9	Disuse Buzzer	Disuse	Disuse	Use		
					_	Free Cooling			А	Use Buzzer	Use	Disuse	Use		
					5	control (Cooling Thermo On) (*6)			В	Disuse Buzzer	Use	Disuse	Use		2000
			7	Window			1	Use	С	Use Buzzer	Disuse	Use	Use	6	Hour
			3	ON/OFF control		Free Cooling control (Cooling/			D	Disuse Buzzer	Disuse	Use	Use		
					Control	6	Dry Thermo On) (*6)			E	Use Buzzer	Use	Use	Use	
									F	Disuse Buzzer	Use	Use	Use		

Option	SEG	i19	SEG	520		SEG21		SEC	522		SEG23	SEG24
Explanation	PA	GE	Individual o			g setting compensati Idensate water in hea		Adjusted E stopped u oil return	nit during /defrost	Setting the	e MDS Kit installation option	-
						Det						
	Indication	Details	Indication	Details	Indication	Heating Setting Compensation	Removing Condensate Water in Heating Mode	Indication	Details	Indication	Details	
			0 or 1	channel1	0	Default	Disuse			0	Disuse (Soft Off+Hard off) (*8)	
			0011	Cidillett	1	2℃	Disuse			1	Off after 20 min. (Soft Off+Hard off)	
					2	5℃	Disuse	0	Default	2	Off after 40 min. (Soft Off+Hard off)	
			2	channel 2				0	Deldull	3	Off after 80 min. (Soft Off+Hard off)	
Indication					3	Default	Use (*7)			4	Off after 20 min. (Soft Off+Hard off)	
and Details										5	Off after 40 min. (Soft Off+Hard off)	=
	3	i	3	channel 3						6	Off after 80 min. (Soft Off+Hard off)	
					4	2℃	Use (*7)			7	Off after 20 min. (Soft Off only) (*9)	
					4	2.0	USE (*/)		A disconnected	8	Off after 40 min. (Soft Off only)	
								1	Adjusted EEV positon	9	Off after 80 min. (Soft Off only)	
			4	channel 4					positori	А	Off after 20 min. (Soft Off only)	
					5	5℃	Use (*7)			В	Off after 40 min. (Soft Off only)	
										С	Off after 80 min. (Soft Off only)	

^{*} Advanced function: Controlling cooling/heating current or power saving with motion detect.

- (*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.

^(*1) When Cooling or dry mode is off. The indoor fan operate in setting minutes.

- (*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.
- (*7) This function can be applied to 4 Way Cassette and Mini 4 Way Cassette only.

If the air conditioner operates the heating mode immediately after finishing the cooling mode, the condensate water in the drain pan becomes water vapor by the heat of the indoor unit heat exchanger. Since the water vapor might be condensed on the indoor unit, which may fall into a living space, use this function to get rid of the water vapor out of the indoor unit by operating the fan (for maximum 20 minutes) even when the indoor unit is turned off after cooling mode is turned to heating mode.

- (*8) Soft Off: If no motion is detected for the Soft Off time, the MDS Kit turns off the indoor units.

 Then if any motion is detected until the Hard Off time is passed, the MDS Kit restarts the indoor units.
- (*9) Hard Off: If no motion is detected for the Hard Off time, the MDS Kit turns hard off the indoor units. Then although any motion is detected, the MDS Kit does not restart the indoor and outdoor units. You must manually restart the units with the wired or wireless remote control.

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 (*3)	-
SEG13	SEG14	SEG15	SEG16	SEG17	SEG18
2	-	Dual fuel (heater lock) setting	Dual fuel (HP lock) setting	-	Control variables when using hot water / external heater (*4)
SEG19	SEG20	SEG21	SEG22	SEG23	SEG24
3	-	-	-	Forced FAN Operation for Heating and Cooling	Whether to use UV LED / whether to use BLE Onboarding / whether to allow fan speed control during auto mode / MDS (motion detection sensor) control UX type

05 series installation option (Detailed)

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

Option	SEG1	SEG	i2	S	EG3	SE	EG4	SE	G5	SE	G6
Explanation	PAGE	MOL	DE	Over for HF mode / Us	uto Change R only in Auto se of Cooling or unit of HR	Standar	tting SEG3) d heating . Offset	(When set Standard co Off		(When sett Standard change H Cool	for mode eating →
	Indication Details	Indication	Details	Indication	Details	Indication	Details	Indication	Details	Indication	Details
				0	Follow product	0	0 ℃	0	0 ℃	0	1℃
					option	1	0.5 °C	1	0.5 °C	1	1.5 °C
Indication					Use Auto Change	2	1°C	2	1°C	2	2 °C
and Details	0	5		1	Over for HR	3	1.5 °C	3	1.5 °C	3	2.5 °C
					only	4	2°C	4	2°C	4	3°C
					Use Cooling	5	2.5 °C	5	2.5 °C	5	3.5 °C
				2	only indoor	6	3 ℃	6	3 °C	6	4 °C
					unit for HR	7	3.5 ℃	7	3.5 ℃	7	4.5 °C
Option	SEG7	SEG	8	S	EG9	SE	G10	SEC	G11	SEC	512
Explanation	PAGE	Standard f change Co	SEG8 Then setting SEG3) tandard for mode hange Cooling → Heating		etting SEG3) ired for mode ange	Compensation option for Long pipe or height difference between indoor units		MTFC (*3)		-	
	Indication Details	Indication	Details	Indication	Details	Indication	Details	Indication	Details	-	
		0	1°C	0	5min	0	Default				
		1	1.5 °C	1	7min		(*1) Height difference is more				
Indication		2	2 ℃	2	9min	1	than 30m or (*2)	0	Default	t -	
and Details	1	1 3 2.5 °	2.5 ℃	3	11min		Distance is longer than 110m				
		4	3 °C	4	13min		(*1) Height				
		5	3.5 ℃	5	15min		difference is 15~30m				
			4 °C	6	20min	2	or (*2)	2	Use	-	
		7	4.5 °C	7	30min		Distance is 50~110m				

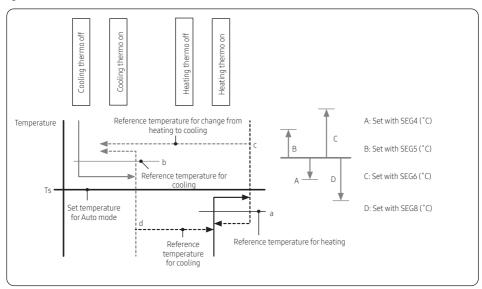
Option	SEG1	13	SEG14		SEG	15	SE	G16	SEG17			SEG18				
Explanation	-		-	Dua	l fuel (he settir	ater lock) ng	Dual fuel set		-	Contro	l variables whe	en using hot wa	ater / external heater (*4)			
													Details			
	Indication	Details	-	Indic	ation	Detail	Indication	Detail	-	In	dication	0	Disuse			
				()	Disuse	0	Disuse			0	At the same time as thermo on	No delay			
					1	18.3 °C	1	7.2 °C			1	At the same time as thermo on	10 minutes			
					2	15.6 ℃	2	4.4 °C			2	At the same time as thermo on	20 minutes			
Indication					3	12.8 °C	3	1.7 °C			3	1.5 °C	No delay			
and Details				-	1	10 °C	4	-1.1 °C			4	1.5 °C	10 minutes			
and betails	2		_		5	7.2 °C	5	-3.9 °C	_		5	1.5 ℃	20 minutes			
	_			(5	4.4 °C	6	-6.7°C			6	3.0 ℃	No delay			
					7	1.7 °C	7	-9.4 °C			7	3.0 ℃	10 minutes			
				- 8	3	-1.1 °C	8	-12.2 °C			8	3.0 ℃	20 minutes			
				(7	-3.9 °C	9	-15 °C			9	4.5 ℃	No delay			
				-	4	-6.7°C	А	-17.8 °C			А	4.5 ℃	10 minutes			
				E	3	-9.4 °C	В	-20.6 °C	_		В	4.5 ℃	20 minutes			
				(-	-12.2 °C	C	-23 °C		С		6.0 °C	No delay			
				[)	-15 °C	D	-26 °C	-		D	6.0 ℃	10 minutes			
						-17.8 °C	Е	-29 °C								
						Cannot be used	F	Cannot be used			Е	6.0 ℃	20 minutes			
Option	SEG1	9	SEG20	SEG21	SEG22		SEG23			SEG24						
						Eorcina EA	N Operation	for Hostina	Whether	to use U	V LED / wheth	er to use BLE C	nboarding / whether to			
Explanation	PAG	E	-	-	-	TordingTA	and Cooling	orricating				ontrol during a tion sensor) co				
							Det	ails				Detail				
	Indication Details	Details	-	-	-	Indication	Cooling Fan Setting	Heating Fan Setting	Indication	UV LED	BLE Onboarding	Whether to allow fan speed control during auto mode	MDS (motion detection sensor) control UX type			
Indication and Details						0	Disuse	Disuse	0	Disuse	Disuse	Disuse	Fan speed and power saving mode can be set simultaneously			
and Details	ils 3	3	7	3	7				1	Disuse	Use (Fan: User setting)	1	Use	Disuse	Disuse	Fan speed and power saving mode can be set simultaneously
	3			_	_	2	Disuse	Use (Fan: High)	2	Disuse	Use	Disuse	Fan speed and power saving mode can be set simultaneously			
							3	Disuse	Use (Fan: Low)	3	Use	Use	Disuse	Fan speed and power saving mode can be set simultaneously		

Option	SEG19	SEG20	SEG21	SEG22		SEG23				SE	:G24								
Explanation	PAGE	-	-	-	Forcing F.	AN Operation for and Cooling	or Heating	Whether	allow	fan speed con	to use BLE On trol during aut in sensor) cont								
					4	Use (Fan: User setting)	Disuse	4	Disuse	Disuse	Use	Fan speed and power saving mode can be set simultaneously							
					5	Use (Fan: User setting)	Use (Fan: User setting)	5	Use	Disuse	Use	Fan speed and power saving mode can be set simultaneously							
					6	Use (Fan: User setting)	Use (Fan: High)	6	Disuse	Use	Use	Fan speed and power saving mode can be set simultaneously							
					7	Use (Fan: User setting)	Use (Fan: Low)	7	Use	Use	Use	Fan speed and power saving mode can be set simultaneously							
					8	Use (Fan: High)	Disuse	8	Disuse	Disuse	Disuse	Only fan speed or power saving mode can be set at a time							
Indication	3				9	Use (Fan: High)	Use (Fan: User setting)	9	Use	Disuse	Disuse	Only fan speed or power saving mode can be set at a time							
and Details	J	-	-		A	Use (Fan: High)	Use (Fan: High)	А	Disuse	Use	Disuse	Only fan speed or power saving mode can be set at a time							
								В	Use (Fan: High)	Use (Fan: Low)	В	Use	Use	Disuse	Only fan speed or power saving mode can be set at a time				
								С	Use (Fan: Low)	Disuse	С	Disuse	Disuse	Use	Only fan speed or power saving mode can be set at a time				
							D	Use (Fan: Low)	Use (Fan: User setting)	D	Use	Disuse	Use	Only fan speed or power saving mode can be set at a time					
														E	Use (Fan: Low)	Use (Fan: High)	E	Disuse	Use
					F	Use (Fan: Low)	Use (Fan: Low)	F	Use	Use	Use	Only fan speed or power saving mode can be set at a time							

- (*1) 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 40m higher than the indoor unit installed at the lowest place, select the option "1".
- (*2) 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 away from an outdoor unit, select the option "2". (100 40 = 60 m)
- (*3) For MTFC option, MTFC(Multi Tenant Function Controller) kit is required.
- (*4) 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.
 - Example 1) Setting 02 series SEG9 ="1" / Setting 05 series SEG18 = "0": The 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.
 - Example 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 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 + 1 °C (1 °C is the Hysteresis for On/Off selection.)

Additional information on SEG3, 4, 5, 6, 8, 9

When SEG3 is set to 1 and the HR-specific auto changeover function is run, the indoor unit operates as shown in the following figure:



The mode change between the Cool and Heat modes is made only when the thermo off state is maintained for the period of time set with SEG9.

Changing the addresses and options individually

When you want to change the value of a specific option, refer to the following table and follow the steps in **Common steps for setting the addresses and options** on page **32**.

Option	SEG	i1	SE	G2	SEC	33	SEG4		SE	G5	SE	G6
Function	Pag	e	Mode		Type of the char		Tens posit option i	tion of the number	Units position of the option number		Newvalue	
	Indication	Details	Indication	Details	Indication	Details	Indication	Details	Indication	Details	Indication	Details
Indication and details	0		D		Option type	0 to F	Tens position value	0 to 9	Units position value	0 to 9	New value	0 to F

Example: Changing the Buzzer control (SEG17) option of the installation options to 1 disuse.

Option	SEG1	SEG2	SEG3	SEG4	SEG5	SEG6
Function	Page	Mode	Type of the option to change	Tens position of the option number	Units position of the option number	New value
Indication	0	D	2	1	7	1

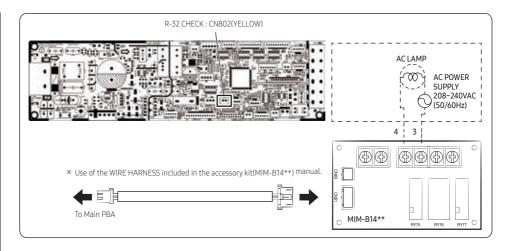
∴ CAUTION

If your indoor units support both cooling and heating, the mixed operation (two or more indoor units operate in different
modes simultaneously) is not available when the indoor units are connected to the same outdoor unit. If you set an indoor
unit as the master indoor unit by using the remote control, the outdoor unit automatically operate in the current mode of the
master indoor unit.

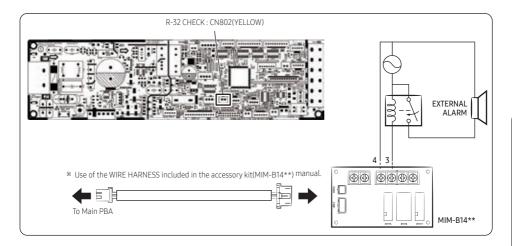
Installing external outputs

- An external output signal occurs if the R-32 sensor in the indoor unit detects a refrigerant leak, or the sensor has a
 malfunction or short circuit.
- Based on this signal, safety measures required for the outdoor unit, such as ventilation system activation and alarm
 activation, can be taken.
- MIM-B14** (External Contact Control Module) can be used to link the GAS LEAK output.

For controlling AC LAMP (On/Off)



For controlling EXTERNAL ALARM (On/Off)



■ NOTE

- The MIM-B14xx can be connected to the required load on connectors 3 and 4.
- The load is AC (220-240), AC 2.25Amax
- When an error occurs due to a gas leak or R-32 sensor error, 3 and 4 are in a short state (the relay operates).

Performing final check and trial operation

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

- 1 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)

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



 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.

Appendix

Troubleshooting

1-way Cassette

			isplay	splay		
Abnormal condition	Error code	Operation	Defrost	Timer	Filter	
Autornal Condition		()	*	(1)	=	
Error on indoor temperature sensor (Short or Open)	E121	Х	0	Х	Х	
1. Error on Eva-in sensor (Short or Open)	E122					
2. Error on Eva-out sensor (Short or Open)	E123	•	0	X	X	
3. Discharge sensor error (Short or Open)	E126					
Indoor fan error	E154	Х	Χ	•	Х	
Error on outdoor temperature sensor (Short or Open)	E221					
2. Error on cond sensor	E237] ,	V	•	V	
3. Error on discharge sensor	E251	•	Χ		X	
Other outdoor unit sensor error that is not on the above list]				
When there is no communication between the indoor-outdoor units for 2 minutes	E101			•		
2. Communication error received from the outdoor unit	E102]				
3. 3 miniute tracking error on outdoor unit	E202	1 1				
Communication error after tracking due to unmatching number of installed units	E201	X	0		Х	
5. Error due to repeated communication address	E108					
6. Communication address not confirmed	E109					
Other outdoor unit communication error that is not on the above list]				
Self diagnosis error display						
1. Error due to opened EEV (2nd detection)	E151]				
2. Error due to closed EEV (2nd detection)	E152] _x	•	•		
3. Eva in sensor is detached	E128] ^				
4. Eva out sensor is detached	E129]				
5. Thermal fuse error (Open)	E198]				
1. COND mid sensor is detached	E241					
2. Refrigerant leakage (2nd detection)	E554					
3. Abnomally high temperature on Cond (2nd detection)	E450					
4. Low pressure s/w (2nd detection)	E451					
5. Abnomally high temperature on discharged air on outdoor unit (2nd detection)	E416	x	•	•	•	
6. Indoor operation stop due to unconfirmed error on outdoor unit	E559					
7. Error due to reverse phase detection	E425					
8. Comp stop due to freeze detection (6th detection)	E403					
9. High pressure sensor is detached	E301]				

Appendix

		LED Display				
Abnormal condition	Error code	Operation	Defrost	Timer	Filter	
Asia ma Condition	Littor code	()	*	Ü	#	
10. Low pressure sensor is detached	E306					
11. Outdoor unit Compression ratio error	E428					
12. Outdoor sump down_1 prevetion control	E413					
13. Compressor down due to low pressure sensor prevention control_1	E410					
14. Simultaneous opening of cooling/heating MCU SOL valve (1st detection)	E180					
15. Simultaneous opening of cooling/heating MCU SOL valve (2nd detection)	E181					
16. Indoor unit R-32 sensor short/open	E116					
17. installation combination of indoor unit and wired remote control Error	E694	X	0	0	•	
18. Refrigerant leak sensor lifetime unpredictable error	E695					
19. 1st refrigerant leak detection error	E696					
20. 2nd refrigerant leak detection error (Error-causing indoor unit)	E697					
21. Refrigerant leak sensor failure error	E698					
22. Refrigerant leak sensor replacement notification error	E699					
23. Refrigerant leak sensor lifetime expiration error	E700					
24. 2nd refrigerant leak detection error (Not Error-causing indoor unit)	E797					
Other outdoor unit self-diagnosis error that is not on the above list						
Floating Switch (2nd detection)	E153	Х	Х	•	•	
EEPROM error	E162	•	0	0	•	
EEPROM option error	E163	0	•	0	•	
Error due to incompatible indoor unit	E164	•	•	Х	•	
MDS (Motion Detecting Sensor) Error		•	X	X	•	

- lacktriangle: On, lacktriangle: Blinking, X: Off
- If you turn off the air conditioner when the LED is flickering, the LED is also turned off.
- If you re-operate the air conditioner, it operates normally at first, then detect an error again.
- When E108 error occurs, change the address and reset the system.
- Ex.) When address of the indoor unit #1 and #2 are set as 5, address of the indoor unit #1 will become 5 and indoor unit #2 will display E108, A002.

4-way Cassette

		LED Display				
Abnormal condition	Error code	Operation	Defrost	Timer	Filter	
Abhormat condition		Ů	*	(1)		
Error on indoor temperature sensor (Short or Open)	E121	Х	0	Χ	Х	
1. Error on Eva-in sensor (Short or Open)	E122			Х		
2. Error on Eva-out sensor (Short or Open)	E123	0	0		X	
3. Discharge sensor error (Short or Open)	E126					
Indoor fan error	E154	X	Χ	0	Х	
1. Error on outdoor temperature sensor (Short or Open)	E221			•		
2. Error on cond sensor	E237		X		×	
3. Error on discharge sensor	E251		Α		^	
Other outdoor unit sensor error that is not on the above list						
When there is no communication between the indoor-outdoor units for 2 minutes	E101			•		
2. Communication error received from the outdoor unit	E102]				
3. 3 miniute tracking error on outdoor unit	E202	1				
Communication error after tracking due to unmatching number of installed units	E201	X	•		Х	
5. Error due to repeated communication address	E108					
6. Communication address not confirmed	E109]				
Other outdoor unit communication error that is not on the above list]				
Self diagnosis error display						
1. Error due to opened EEV (2nd detection)	E151]				
2. Error due to closed EEV (2nd detection)	E152] _x	•	•	0	
3. Eva in sensor is detached	E128	7 ^				
4. Eva out sensor is detached	E129]				
5. Thermal fuse error (Open)	E198					
1. COND mid sensor is detached	E241					
2. Refrigerant leakage (2nd detection)	E554					
3. Abnomally high temperature on Cond (2nd detection)	E450					
4. Low pressure s/w (2nd detection)	E451]				
5. Abnomally high temperature on discharged air on outdoor unit (2nd detection)	E416	X	•	•	•	
6. Indoor operation stop due to unconfirmed error on outdoor unit	E559					
7. Error due to reverse phase detection	E425]				
8. Comp stop due to freeze detection (6th detection)	E403					
9. High pressure sensor is detached	E301					

Appendix

		LED Display				
Abnormal condition	Error code	Operation	Defrost	Timer	Filter	
, and condition	Littor code	()	*>	Ü		
10. Low pressure sensor is detached	E306					
11. Outdoor unit Compression ratio error	E428					
12. Outdoor sump down_1 prevetion control	E413					
13. Compressor down due to low pressure sensor prevention control_1	E410					
14. Simultaneous opening of cooling/heating MCU SOL valve (1st detection)	E180					
15. Simultaneous opening of cooling/heating MCU SOL valve (2nd detection)	E181					
16. Indoor unit R-32 sensor short/open	E116					
17. installation combination of indoor unit and wired remote control Error	E694	X	0	0	0	
18. Refrigerant leak sensor lifetime unpredictable error	E695					
19.1st refrigerant leak detection error	E696					
20. 2nd refrigerant leak detection error (Error-causing indoor unit)	E697					
21. Refrigerant leak sensor failure error	E698					
22. Refrigerant leak sensor replacement notification error	E699					
23. Refrigerant leak sensor lifetime expiration error	E700					
24. 2nd refrigerant leak detection error (Not Error-causing indoor unit)	E797					
Other outdoor unit self-diagnosis error that is not on the above list						
Floating Switch (2nd detection)	E153	Х	Х	•	•	
EEPROM error	E162	•	•	•	•	
EEPROM option error	E163	0	•	0	•	
Error due to incompatible indoor unit	E164	•	•	Х	•	
MDS (Motion Detecting Sensor) Error		•	X	X	•	

- lacktriangle: On, lacktriangle: Blinking, X: Off
- If you turn off the air conditioner when the LED is flickering, the LED is also turned off.
- If you re-operate the air conditioner, it operates normally at first, then detect an error again.
- When E108 error occurs, change the address and reset the system.
- Ex.) When address of the indoor unit #1 and #2 are set as 5, address of the indoor unit #1 will become 5 and indoor unit #2 will display E108, A002.

Memo

SAMSUNG



