Air conditioner

Installation manual

AM***KN4DCH

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

SAMSUNG

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Troubleshooting

Safety Information



♠ WARNING

State of California Proposition 65 Warning (US only) This product contains chemicals known to the State of California to cause cancer, birth defects, or other reproductive harm.

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.

General information

- Carefully read the content of this manual before installing the air conditioner and store the manual in a safe place in order to be able to use it as reference after installation.
- For maximum safety, installers should always carefully read the following warnings.
- Store the operation and installation manual in a safe location and remember to hand it over to the new owner if the air conditioner is sold or transferred.
- This manual explains how to install an indoor unit with a split system with two SAMSUNG units. The use of other types of units with different control systems may damage the units and invalidate the warranty. The manufacturer shall not be responsible for damages arising from the use of non compliant units.
- The manufacturer shall not be responsible for damage originating from unauthorized changes or the improper connection of electric and requirements set forth in the "Operating limits" table, included in the manual, shall immediately invalidate the warranty.

- The air conditioner should be used only for the applications for which it has been designed: the indoor unit is not suitable to be installed in areas used for
- Do not use the units if damaged. If problems occur, switch the unit off and disconnect it from the power supply.
- In order to prevent electric shocks, fires or injuries, always stop the unit, disable the protection switch and contact SAMSUNG's technical support if the unit produces smoke, if the power cable is hot or damaged or if the unit is very noisy.
- Always remember to inspect the unit, electric connections, refrigerant tubes and protections regularly. These operations should be performed by qualified personnel only.
- The unit contains moving parts, which should always be kept out of the reach of children.
- Do not attempt to repair, move, alter or reinstall the unit. If performed by unauthorized personnel, these operations may cause electric shocks or fires.
- Do not place containers with liquids or other objects on the unit.
- All the materials used for the manufacture and packaging of the air conditioner are recyclable.
- The packing material and exhaust batteries of the remote controller(optional) must be disposed of in accordance with current laws.
- The air conditioner contains a refrigerant that has to be disposed of as special waste. At the end of its life cycle, the air conditioner must be disposed of in authorized centres or returned to the retailer so that it can be disposed of correctly and safely.

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.

Safety Information

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
- 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.

A CAUTION

Make sure that you earth the cables.

• Do not connect the earth wire to the gas pipe, water pipe, lighting rod or telephone wire. If earthing is not complete, electric shock or fire may occur.

Install the circuit breaker.

• If the circuit breaker is not installed, electric shock or fire may occur.

Make sure that the condensed water dripping from the drain hose runs out properly and safely.

Install the power cable and communication cable of the indoor and outdoor unit at least 1m away from the electric appliance.

Install the indoor unit away from lighting apparatus using the ballast.

• If you use the wireless remote control, reception error may occur due to the ballast of the lighting apparatus.

Do not install the air conditioner in following places.

- Place where there is mineral oil or arsenic acid. Resin parts flame and the accessories may drop or water may leak. The capacity of the heat exchanger may reduce or the air conditioner may be out of order.
- The place where corrosive gas such as sulphuric acid gas generates from the vent pipe or air outlet.
- The copper pipe or connection pipe may corrode and refrigerant may leak.
- The place where there is a machine that generates electromagnetic waves. The air conditioner may not operate normally due to control system.
- The place where there is a danger of existing combustible gas, carbon fibre or flammable dust.
- The place where thinner or gasoline is handled. Gas may leak and it may cause fire.

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.

| Insulation pipe (3 ea) | Cable-tie (6 ea) |
|------------------------------|----------------------------|
| | <u> </u> |
| Drain hose (1 ea) | Installation manual (1 ea) |
| | |
| Clamp (1 ea) | User manual (1 ea) |
| | |
| Installation template (1 ea) | Bushing bracket (1 ea) |
| | |
| Dimension gauge (1 ea) | Reducer (1 ea) |
| | |

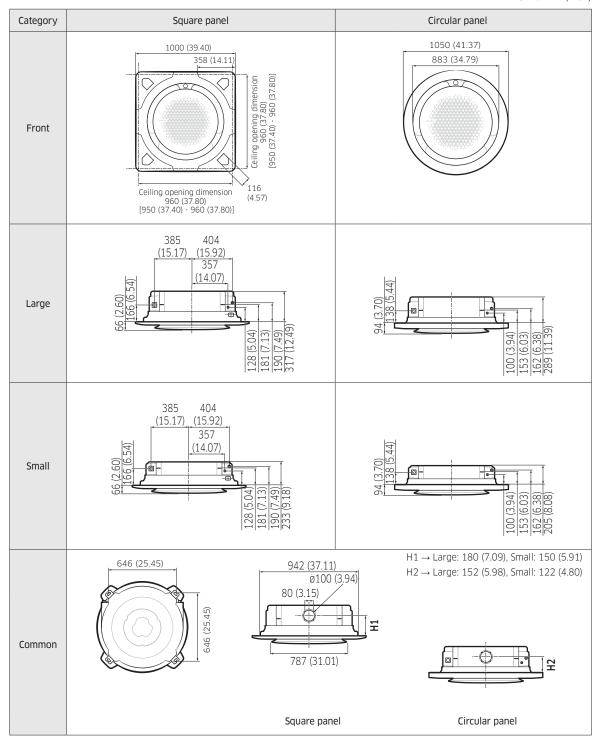
Step 2 Choosing the installation location

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.

Indoor unit dimensions

Unit: mm (inch)

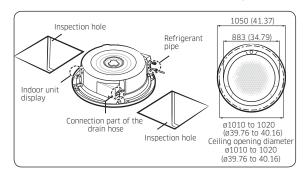


| Model | | AM009KN4DCH* AM012KN4DCH* AM018KN4DCH* | | AM030KN4DCH* AM036KN4DCH* AM048KN4DCH* | |
|------------------------------|----------|---|--------------|--|--|
| Chassis | | Sm | Small | | |
| Net dimension (W × D × H) | mm (in.) | 947 x 947 x 281 947 x 947 x 281 (37.28 x 37.27 x 11.06) (37.28 x 37.27 x 11.06) | | 947 x 947 x 365 (37.28 x 37.27 x 14.37) | |
| Net weight | kg (lb) | 21.0 (46.3) | 21.0 (46.3) | 24.0 (53.9) | |
| Liquid pipe connection | mm (in.) | ø6.35 (1/4") | ø9.52 (3/8") | ø9.52 (3/8") | |
| Gas pipe connection | mm (in.) | Ø12.7 (1/2") Ø15.88 (5/8") | | ø15.88 (5/8") | |
| Drain hose connection | mm | 3/4" (OD 1.05" (26.67)) | | | |

- The circular panel is by default available in exposed installation.
- Make inspection holes on the ceiling for easier installation and maintenance, as shown in the following table. (The size of an inspection hole must be at least 450 x 450 mm (17.72 x 17.72 in.))
- A suspended ceiling structure can substitute for the inspection holes.

| | Inspection hole | | | | |
|----------------|-----------------------|-----------|--------------|--|--|
| Category | Recessed installation | | Exposed | | |
| | Integrated | suspended | installation | | |
| Square panel | 1 ea | | | | |
| Circular panel | 2 ea | | - | | |

• For the recessed installation of the circular panel

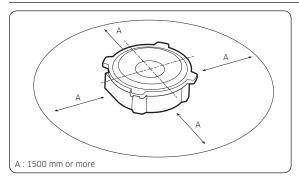


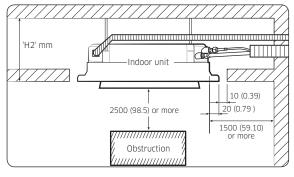


The clearance between the panel and the inspection hole is 15 to 20 mm (0.59 to 0.79 in.) on a side.

Spacing requirements

Unit: mm (inch)



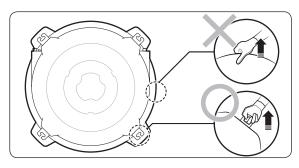


Unit: mm (inch)

| Model | AM009KN4DCH* AM012KN4DCH* AM018KN4DCH* | AM024KN4DCH* | AM030KN4DCH* AM036KN4DCH* AM048KN4DCH* |
|-------|--|--------------|--|
| H2 | 261 (10.27) | 261 (10.27) | 345 (13.58) |

♠ CAUTION

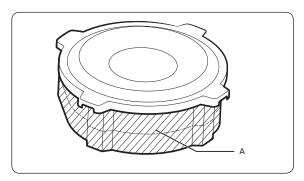
- The indoor unit must be installed according to the specified distances in order to permit accessibility from each side, to guarantee correct operation, maintenance, and repair of the unit. The components of the indoor unit must be reachable and removable under safe conditions for people and the unit.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



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 (80.6°F) and humidity is over 80%, you must apply an extra 10 mm (0.39 in.) 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.



NOTE

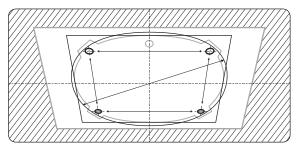
A: Reference for the outer circumference of the unit (When insulating the body of the indoor unit, use A as the reference for its outer circumference.)

| Indoor unit type | Dimensions | |
|---|--|--------------------------------------|
| All way cassette type <\$> 947 x 947 x 281 mm (37.28 x 37.28 x 11.06 in.) | AM009KN4DCH* AM012KN4DCH* AM018KN4DCH* AM024KN4DCH* | 2610 x 130 mm (102.76 x 5.12 in.) |
| All way cassette type <l> 947 x 947 x 365 mm (37.28 x 37.28 x 14.37 in.)</l> | AM030KN4DCH* AM036KN4DCH* AM048KN4DCH* | 2610 x 215 mm (102.76 x 8.46 in.) |

Step 4 Installing the indoor unit

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

1 Determine the positions of the pipe and the drain hose hole as shown in the pattern sheet, and drill the hole with an inner diameter of 14 mm (0.55 in.).

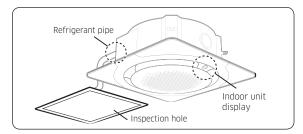




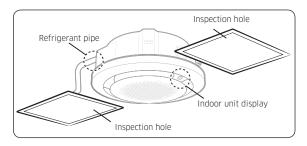
NOTE

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.

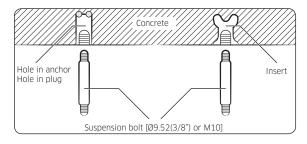
- 2 Perform the following steps to install inspection holes in accordance with the panel type.
 - **a** For the recessed installation of the square panel.
 - Install an inspection hole to the direction of connection parts of the refrigerant pipe and the drain hose. (1 point)



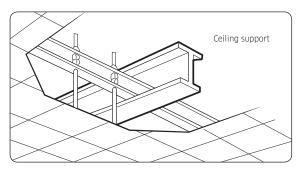
- **b** For recessed installation of the circular panel
- Install inspection holes to both directions of the connection part of the refrigerant pipe and the drain hose and of the indoor unit display. (2 points)



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



4 Install the suspension bolts, depending on the ceiling type.

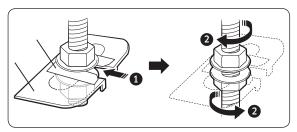


CAUTION

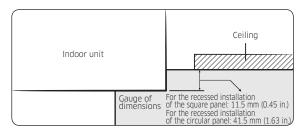
- Make sure that the ceiling is strong enough to support the weight of the indoor unit. Before hanging the unit, test the strength of each attached suspension bolt.
- If the length of the suspension bolt is more than 1.5 m (4.92 ft), you are required to prevent vibration.
- **5** Screw eight nuts and 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.
- **6** Hang the indoor unit to the suspension bolts between two nuts. Screw the nuts to suspend the unit. Cut a pad stopper and place it on the bracket at this time



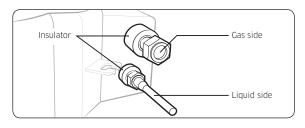
- **7** Adjust the unit to the appropriate position, taking into account the installation area for the front panel.
 - Place the pattern sheet on the indoor unit.
 - Adjust the space between the ceiling and the indoor unit by using a dimension gauge.
 - Fix the indoor unit securely after adjusting the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



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.

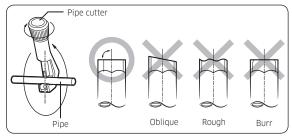


NOTE

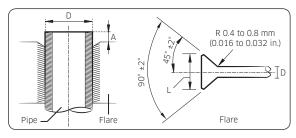
 To prevent dirt or foreign objects from getting into the pipes during installation, do not remove the pinch pipe completely until you are ready to connect the piping.

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.

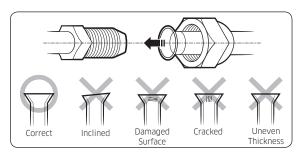


- **3** To prevent any gas from leaking out, remove all burrs at the cut edge of the pipe, using a reamer.
- 4 Slide a flare nut on to the pipe and modify the flare.



| Outer Dia | meter (D) | Depth (A) | | Flare dim | ension (L) |
|-----------|-----------|-----------|-------|--------------|--------------|
| mm | inch | mm | inch | mm | inch |
| 6.34 | 1/4 | 1.3 | 0.051 | 8.7 to 9.1 | 0.34 to 0.36 |
| 9.52 | 3/8 | 1.8 | 0.071 | 12.8 to 13.2 | 0.5 to 0.52 |
| 12.7 | 1/2 | 2.0 | 0.079 | 16.2 to 16.6 | 0.64 to 0.65 |
| 15.88 | 5/8 | 2.2 | 0.087 | 19.3 to 19.7 | 0.76 to 0.78 |
| 19.05 | 3/4 | 2.2 | 0.087 | 23.6 to 24.0 | 0.93 to 0.95 |

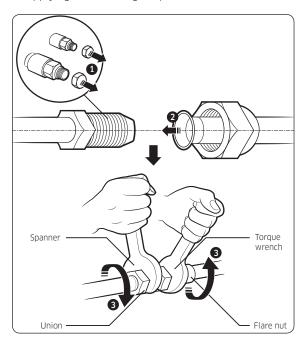
5 Check that the flaring is correct, referring to the illustrations below for examples of incorrect flaring.



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



| Outer Diameter (D) | | Torque | |
|--------------------|-----|------------|--------------|
| mm | in. | N·m | lbf∙ft |
| 6.35 | 1/4 | 14 to 18 | 10.3 to 13.3 |
| 9.52 | 3/8 | 34 to 42 | 25.1 to 31.0 |
| 12.7 | 1/2 | 49 to 61 | 36.1 to 45.0 |
| 15.88 | 5/8 | 68 to 82 | 50.2 to 60.5 |
| 19.05 | 3/4 | 100 to 120 | 73.8 to 88.5 |

(1 N•m=10kgf•cm)



- If the pipes must be shortened, see Step 6 Cutting and flaring the pipes on page 10.
- **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. The only permitted connections are those for which the units are designed.

CAUTION

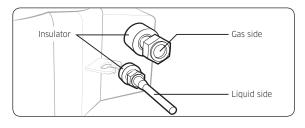
- Connect the indoor and outdoor units using pipes with flared connections (not supplied). For the lines, use insulated, unwelded, degreased and deoxidized copper pipe (Cu DHP type to ISO 1337 or UNI EN 12735-1), suitable for operating pressures of at least 4.2 MPa (609.2 psi) and for a burst pressure of at least 20.7 MPa (3002.3 psi). 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 (2.9 to 7.25 psi).

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-410A.

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 MPa [594.7 psig (gauge)] in order to immediately detect leaks on the refrigerant fittings.

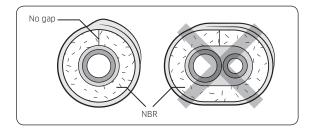
Made vacuum for 15 minutes and pressurizing system with nitrogen.



Step 9 Insulating the refrigerant pipes

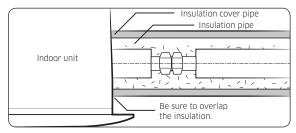
Once you have checked that there are no leaks in the system, you can insulate the piping and hose.

1 To avoid condensation problems, place Acrylonitrile Butadien Rubber separately around each refrigerant pipe.



NOTE

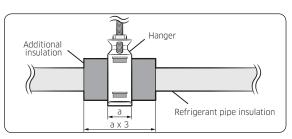
- Always make the seam of pipes face upwards.
- 2 Wind insulating tape around the pipes and drain hose avoiding compressing the insulation too much.
- **3** Finish wrapping insulating tape around the rest of the pipes leading to the outdoor unit.
- 4 The pipes and electrical cables connecting the indoor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





⚠ CAUTION

- 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.



- · Must fit tightly against body without any gap.
- All refrigerant connection must be accessible, in order to permit either unit 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 (86°F), 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 (248°F).

| | | | Insulation type (heating/cooling) | | | | |
|-----------|----------------|----------------|-----------------------------------|---------------------|----------------------|---------|---------------------------|
| Pipe size | | | | High ht [30°C(86 | ımidity °F), 85%] | Remarks | |
| | | | | EPDM | I, NBR | | |
| | mm | inch | mm | inch | mm | inch | |
| Liquid | 6.35 to 9.52 | 1/4 to 3/8 | 9 | 3/8 | 9 | 3/8 | |
| pipe | 12.7 to 50.80 | 1/2 to 2 | 13 | 1/2 | 13 | 1/2 | Heating |
| | 6.35 | 1/4 | 13 | 1/2 | 19 | 3/4 | resisting |
| Cas nine | 9.52 to 25.40 | 3/8 to 1 | 19 | 3/4 | 25 | 1 | temperature over 120°C |
| Gas pipe | 28.58 to 44.45 | 1 1/8 to 1 3/4 | 19 | 3/4 | 32 | 11/4 | (248°F) |
| | 50.80 | 2 | 25 | 1 | 38 | 11/2 | |

 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.

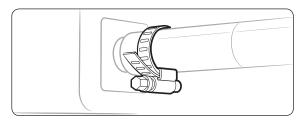
<Building construction condition>

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.

Step 10 Installing the drain hose and drain pipe

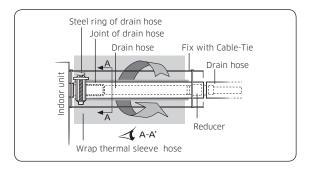
- 1 Push the supplied drain hose as far as possible over the drain socket.
- **2** Tighten the metal clamp as shown in the picture.

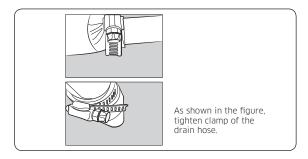


- 3 Wrap the supplied large sealing pad over the metal clamp and drain hose to insulate and fix it with clamps.
- 4 Insulate the complete drain piping inside the building (field supply).

If the drain hose cannot be sufficiently set on a slope, fit the hose with drain raising piping (field supply).

5 Push the drain hose up to insulation when connecting the drain hose to drain socket.

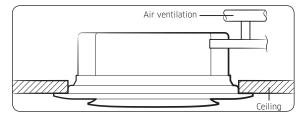




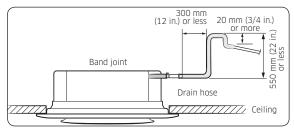
CAUTION

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

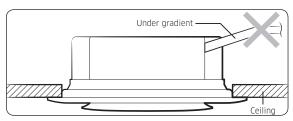
• Install air ventilation to drain condensation smoothly.



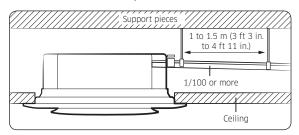
If it is necessary to increase the height of the drain pipe, install the drain pipe straight within 300 mm (12 in.) from the drain hose port. If it is raised higher than 550 mm (22 in.), there may be water leaks.



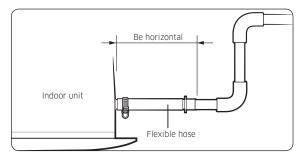
 Do not give the hose an upward gradient beyond the connection port. This will cause water to flow backwards when the unit is stopped, resulting in water leaks.



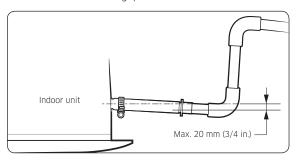
 Do not apply force to the piping on the unit side when connecting the drain hose. The hose should not be allowed to hang loose from its connection to the unit. Fasten the hose to a wall, frame or other support as close to the unit as possible.



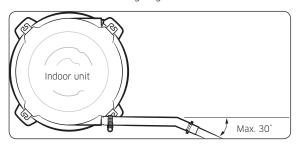
Install horizontally.



• Max. allowable aixs gap

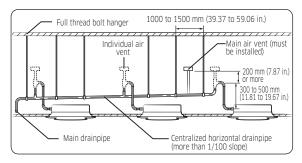


• Max. allowable bending angle.



🖹 NOTE

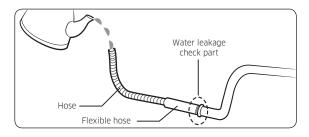
 If a concentrated drain pipe is installed, refer to the figure below.



- 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

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

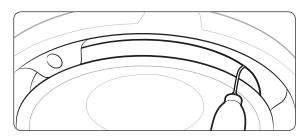


- **b** After pouring some water, reassemble the rubber cap on the connection part of a flexible hose of the indoor unit and firmly tighten it with a band to prevent leakage.
- **c** Check the leak test at the part where the adhesive for the flexible hose and the drain pipe is used.



CAUTION

- The leak test must be performed for at least 24 hours.
- **2** Check the condensed water drainage:
 - a Pour about 2 liters (0.54 gal) of water into the indoor unit drain pan as shown in the picture.



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



A 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 (208 to 230V, 60 Hz) to the L and N terminals.
- Reassemble the control box cover and turn on the indoor unit.

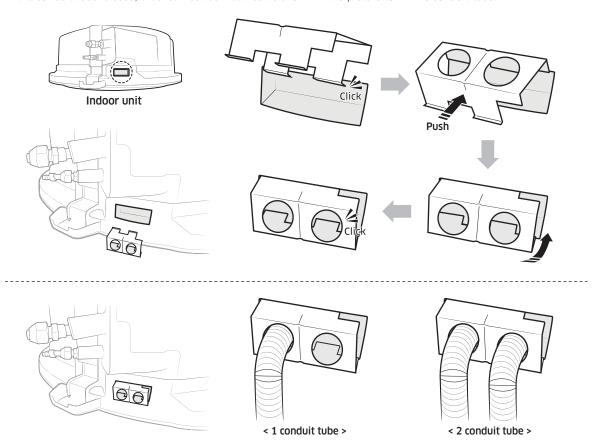


A CAUTION

- 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
- 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
- **g** When the drainage check is completed and the condensed water remains on the drain pan, remove the water.

Bushing bracket installation

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

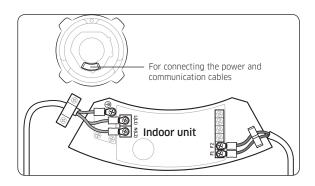


NOTE

• Please follow national and local electrical codes. Additional electrical connection components may be required.

Step 12 Connecting the power and communication cables

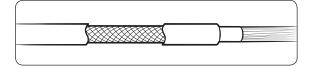
Power and communication cable connection

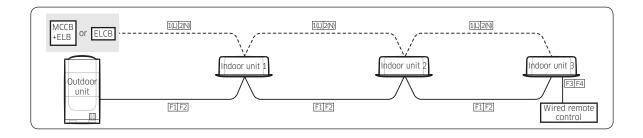


- Before wiring work, you must turn off all power source.
- Connect the power and communication cable among the units within maximum length to set the voltage drop under 10%.
- The auxiliary circuit breaker (ELCB, MCCB, ELB) should be considered more capacity if many indoor units are connected from one 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 (lbf.ft) | | | | |
|----------------------------|--|--|--|--|
| M3.5 0.59 to 0.89 | | | | |
| M4 0.89 to 1.1 | | | | |

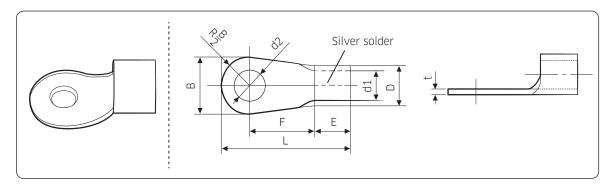
- To protect the product from water and possible shock, you should keep the power and the communication cables of the indoor and outdoor units in the iron pipe.
- Connect the power cable to the auxiliary circuit breaker (ELCB, MCCB, ELB).
- Keep distances of 50mm or more between power cable and communication 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.





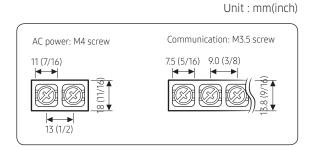
Selecting the crimping terminal lug

- 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 dimensions for cable [mm² (Inch²)] | | 1.5(0.002) | | 2.5(0.003) | | 4(0.006) | | |
|---|--|---|---------------|---------------------------|---------------|------------------------------|-------|-----------|
| Norr | minal dimensions for screw [mm (Inch)] | 4(0.15) | 4(0.15) | 4(0.15) | 4(0.15) | 4(0.15) | | |
| В | Standard dimension [mm (lnch)] | | 8.0 (0.31) | 6.6 (0.25) | 8.5 (0.33) | 9.5(0.37) | | |
| | Allowance [mm (Inch)] | ±0.2(±0 | 0.007) | ±0.2(± | 0.007) | ±0.2(±0.007) | | |
| | Standard dimendion [mm (Inch)] | 3.4(0 | .13) | 4.2(0 | 0.16) | 5.6(0.22) | | |
| D | Allowance [mm (Inch)] | +0.3(+0.011) -0.2(-0.007) | | +0.3(+ -0.2(-(| , | +0.3(+0.011) -0.2(-0.007) | | |
| d1 | Standard dimension [mm (Inch)] | 1.7(0.06) | | 2.3(0 | 0.09) | 3.4(0.13) | | |
| U1 | Allowance [mm (Inch)] | ±0.2(±0.007) | | ±0.2(±0.007) ±0.2(±0.007) | | ±0.2(±0.007) | | |
| Е | Min. [mm (inch)] | 4.1(3/16) | | 6(1/4) | | 6(1/4) | | |
| F | Min. [mm (inch)] | 6(1/4) | | 6(1/4) | | 6(1/4) | | |
| L | Max. [mm (inch)] | 16(5/8) | | 16(5/8) 17.5(3/4) | | 20(3/4) | | |
| | Standard dimension [mm (Inch)] | 4.3(0.16) | | 4.3(0.16) | | 4.3(0 | 0.16) | 4.3(0.16) |
| d2 | Allowance [mm (Inch)] | +0.2(+0.007) ance [mm (Inch)] +0.0(+0.007) | | +0.2(+ | , | +0.2(+0.007) O(0) | | |
| t | Min. [mm (Inch)] | 0.7(0.02) 0.8(0 | | 0.03) | 0.9(0.035) | | | |

Specifications of the terminal blocks



| Power supply (single phase) | МССВ | ELB |
|---|--|--|
| 208 to 230V, 60 Hz Min : 187 V Max : 253 V | XA | XA, 30 mA 0.1 s |
| Power cable | Earth cable | Communication cable |
| 2.5 mm ² (0.0039 in ²) or more | 2.5 mm ² (0.0039 in ²) | 0.75 to 1.5 mm² (0.0012 to 0.0023 in²) |

Decide the power cable specification and maximum length by formula 2.

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

The capacity of ELB, MCCB $X[A] = 1.25 X 1.1 X \Sigma Ai$



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

Rated currents

| Model | Rating current(A) |
|-------------|-------------------|
| AM009KN4DCH | 0.18 |
| AM012KN4DCH | 0.18 |
| AM018KN4DCH | 0.18 |
| AM024KN4DCH | 0.28 |
| AM030KN4DCH | 0.42 |
| AM036KN4DCH | 0.57 |
| AM048KN4DCH | 0.75 |

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

n Coef×35.6×Lk

$$\Sigma$$
 (\times ik) < 10% of input voltage[V]

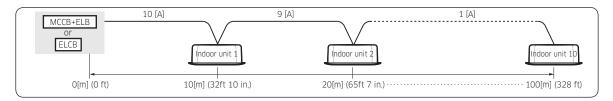


NOTE

- 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) (328 ft), Initial pullin 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.

| 1 | 2.5 [mm ²] (0.003 in ²) | 2.5 [mm²] (0.003 in²) | ; ······ 2.5 [mm²] (0 | 0.003 in²) Within 187V |
|---------|---|------------------------------------|-----------------------|------------------------|
| | -2.2 [V] | -2.0 [V] | 1 | to 253V |
| 220 [V] | | -(2.2+2.0+1.8+1.5+1.3+1.1+0.9+0.7- | +0.4+0.2)=-11.2 [V] | 208.8 [V]: Applicable |

- Installing with 2 different sort wire.

| | 4.0 [mm ²] (0.006 in ²) | | 4.0 [mm ²] (0.006 in ²) | ļ | 2.5 [mm²] (0.003 in²) ·········· | ↓ Within 187V |
|---------|---|-----------|---|--------------|----------------------------------|---------------|
| | -1.4 [V] | i | -1.2 [V] | ŀ | | to 253V |
| 220 [V] | | -(1.4+1.2 | !+1.8+1.5+1.3+1.1+0.9+0.7+ | 0.4+0.2)=-10 | .5 [V] 209.5 [V] | : Applicable |

Step 13 Optional: Extending the power cable

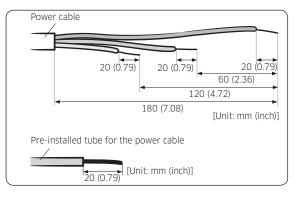
1 Prepare the following tools.

| Tools | Spec | Shape | |
|----------------------------------|--|-------|--|
| Crimping pliers | MH-14 | | |
| Connection sleeve [mm (inch)] | 20 (0.79) x Ø6.5 (0.26) (H x OD) | | |
| Insulation tape | Width 19 mm (0.75 in.) | | |
| Contraction tube [mm (inch)] | 70 (2.76) x Ø8.0 (0.31) (L x OD) | | |

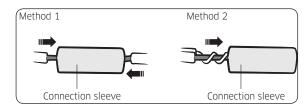
- **2** As shown in the figure, peel off the shields from the rubber and wire of the power cable.
 - Peel off 20 mm of cable shields from the preinstalled tube.

A CAUTION

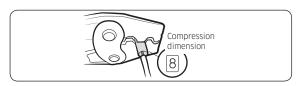
- For information about the power cable specifications for indoor and outdoor units, refer to the installation manual.
- After peeling off cable wires from the pre-installed tube, insert a contraction tube.



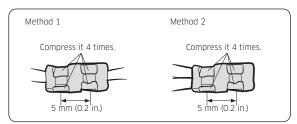
- 3 Insert both sides of core wire of the power cable into the connection sleeve.
 - Method 1: Push the core wire into the sleeve from both sides.
 - Method 2: Twist the wire cores together and push it into the sleeve.



- **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.

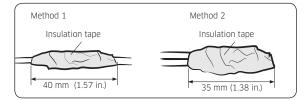


 After compressing it, pull both sides of the wire to make sure it is firmly pressed.

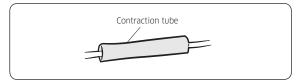


5 Wrap it with the insulation tape twice or more and position your contraction tube in the middle of the insulation tape.

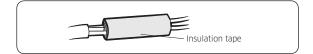
Three or more layers of insulation are required.



6 Apply heat to the contraction tube to contract it.



7 After tube contraction work is completed, wrap it with the insulation tape to finish.

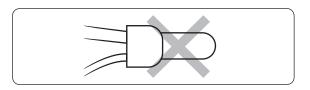


CAUTION

- 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.)

MARNING

- 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.

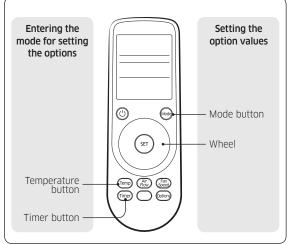


Step 14 Setting the indoor unit addresses and the installation options

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

Common steps for setting the addresses and options

AR-KH00U remote control (for 360 cassette only)



NOTE

- The remote control display may vary depending on the model.
- **1** Enter the mode for setting the options:
 - **a** Remove the batteries from the remote control.
 - **b** While holding down the (Temp) (Temp) and (Timer) buttons simultaneously, insert the batteries into the remote control.
 - **c** Make sure that you are entered to the mode for setting the 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: SEG2 and SEG3 → SEG4 and SEG5 → SEG6 and SEG8 → SEG9 and SEG10 → SEG11 and SEG12 → SEG14 and SEG15 → SEG16 and SEG17 → SEG18 and SEG20 → SEG21 and SEG22 → SEG23 and SEG24

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

| On (SEG1 to SEG12) | Off (SEG13 to SEG24) |
|--------------------|----------------------|
| On Auto | Off Auto |

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 rotating the Wheel counterclockwise until the value you want to set appears on the remote control display. | On Auto |
| | b Set the SEG3 value by rotating the Wheel clockwise until the value you want to set appears on the remote control display. When you rotate the Wheel, values appear in the following order: 3 - 1 E - E | On Auto SEG3 |
| 2 | Press the (Mode) button. Cool and On appear on the remote control display. | On Cool |
| 3 | Set the SEG4 and SEG5 values: a Set the SEG4 value by rotating the Wheel counterclockwise until the value you want to set appears on the remote control display. | On Cool SEG4 |

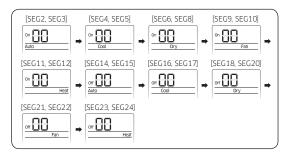
| | Steps | Remote control display |
|---|--|------------------------|
| | b Set the SEG5 value by rotating the Wheel clockwise until the value you want to set appears on the remote control display. | On Cool SEG5 |
| | When you rotate the Wheel, values appear in the following order: | |
| 4 | Press the (Mode) button. Dry and On appear on the remote control display. | On Dry |
| 5 | Set the SEG6 and SEG8 values: | |
| | a Set the SEG6 value by rotating the Wheel counterclockwise until the value you want to set appears on the remote control display. | On Dry SEG6 |
| | b Set the SEG8 value by rotating the Wheel clockwise until the value you want to set appears on the remote control display. | On Dry SEG8 |
| | When you rotate the Wheel, values appear in the following order: ☐ → ☐ → ☐ → ☐ | |
| 6 | Press the (Mode) button. Fan and On appear on the remote control display. | On Fan |
| 7 | Set the SEG9 and SEG10 values: | On 🗖 🔲 |
| | a Set the SEG9 value by rotating the Wheel counterclockwise until the value you want to set appears on the remote control display. | Fan SEG9 |
| | b Set the SEG10 value by rotating the Wheel clockwise until the value you want to set appears on the remote control display. | On Fan SEG10 |
| | When you rotate the Wheel, values appear in the following order: $\{ : \neg : \{ : \{$ | |
| 8 | Press the (Mode) button. Heat and On appear on the remote control display. | On Heat |

| Steps | Remote control display | | | | | |
|---|------------------------|--|--|--|--|--|
| 9 Set the SEG11 and SEG12 values: | | | | | | |
| a Set the SEG11 value by rotating the Wheel counterclockwise until the value you want to set appears on the remote control display. | On Heat SEG11 | | | | | |
| b Set the SEG12 value by rotating the Wheel clockwise until the value you want to set appears on the remote control display. | On Heat SEG12 | | | | | |
| When you rotate the Wheel, values appear in the following order: ☐ → ☐ → ☐ → ☐ | | | | | | |
| 10 Press the (Mode) button. Auto and Off appear on the remote control display. | Off Auto | | | | | |
| 11 Set the SEG14 and SEG15 values: | | | | | | |
| a Set the SEG14 value by rotating the Wheel counterclockwise until the value you want to set appears on the remote control display. | Off Auto SEG14 | | | | | |
| b Set the SEG15 value by rotating the Wheel clockwise until the value you want to set appears on the remote control display. | off Auto SEG15 | | | | | |
| When you rotate the Wheel, values appear in the following order: ☐ → ☐ → ☐ → ☐ | | | | | | |
| 12 Press the (Mode) button. Cool and Off appear on the remote control display. | Off Cool | | | | | |
| 13 Set the SEG16 and SEG17 values: | | | | | | |
| a Set the SEG16 value by rotating the Wheel counterclockwise until the value you want to set appears on the remote control display. | off Cool SEG16 | | | | | |
| b Set the SEG17 value by rotating the Wheel clockwise until the value you want to set appears on the remote control display. | off Cool SEG17 | | | | | |
| When you rotate the Wheel, values appear in the following order: ☐ → ☐ → ☐ → ☐ | | | | | | |

| Steps | Remote control display |
|---|------------------------|
| 14 Press the (Mode) button. Dry and Off appear on the remote control display. | Off Dry |
| 15 Set the SEG18 and SEG20 values: | |
| a Set the SEG18 value by rotating the Wheel counterclockwise until the value you want to set appears on the remote control display. | Off Dry SEG18 |
| b Set the SEG20 value by rotating the Wheel clockwise until the value you want to set appears on the remote control display. | off Dry SEG20 |
| When you rotate the Wheel, values appear in the following order: ☐ → ☐ → … E → E | |
| 16 Press the (Mode) button. Fan and Off appear on the remote control display. | off Fan |
| 17 Set the SEG21 and SEG22 values: | |
| a Set the SEG21 value by rotating the Wheel counterclockwise until the value you want to set appears on the remote control display. | off Fan SEG21 |
| b Set the SEG22 value by rotating the Wheel clockwise until the value you want to set appears on the remote control display. | off Fan SEG22 |
| When you rotate the Wheel, values appear in the following order: ☐ → ☐ → ···· E → E | |
| 18 Press the (Mode) button. Heat and Off appear on the remote control display. | Off Heat |

Steps Remote control display 19 Set the SEG23 and SEG24 values: a Set the SEG23 value by rotating the Wheel counterclockwise until the value you want to set appears on the remote control display. b Set the SEG24 value by rotating the Wheel clockwise until the value you want to set appears on the remote control display. off General Heat SEG23 When you rotate the Wheel, values appear in the following order: 3 + 1 + ... E + E

3 Check whether the option values that you have set are correct by pressing the (Mode) button repeatedly

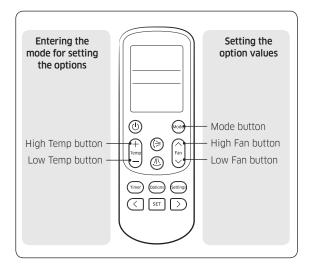


4 Save the option values into the indoor unit:

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

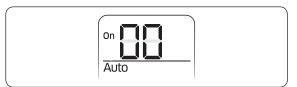
- 5 Check whether the air conditioner operates in accordance with the option values you have set:
 - a Reset the indoor unit by disconnecting and then reconnecting the power cable of the indoor unit or by pressing the RESET button on the outdoor unit.
 - **b** Remove the batteries from the remote control, insert them again, and then press the ((Power) button on the remote control.

MR-EH00U and MR-EC00U remote controls





- The remote control display and buttons may vary depending on the model.
- 1 Enter the mode for setting the options:
 - **a** Remove the batteries from the remote control. and then insert them again.
 - **b** While holding down the (High Temp) and (Low Temp) buttons simultaneously, insert the batteries into the remote control.
 - c Make sure that you are entered to the mode for setting the options:

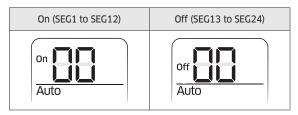


2 Set the option values.

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: SEG2 and SEG3 → SEG4 and SEG5 \rightarrow SEG6 and SEG8 \rightarrow SEG9 and SEG10 \rightarrow SEG11 and SEG12 \rightarrow SEG14 and SEG15 \rightarrow SEG16 and SEG17 \rightarrow SEG18 and SEG20 → SEG21 and SEG22 → SEG23 and SEG24

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



Take the steps presented in the following table:

| Steps | Remote control display |
|---|------------------------|
| Set the SEG2 and SEG3 values: a Set the SEG2 value by pressing the (Low Fan) button repeatedly until the value you want to set appears on the remote control display. | Auto SEG2 |
| b Set the SEG3 value by pressing the (Fight Fan) button repeatedly until the value you want to set appears on the remote control display. | Auto SEG3 |
| When you press the $\stackrel{\mathbb{F}_{an}}{\bigcup}$ (Low Fan) or $\bigcap_{\mathbb{F}_{an}}$ (High Fan) button, values appear in the following order: $\bigcirc \rightarrow \bigcirc \rightarrow \bigcirc$ | 3203 |
| 2 Press the (Mode) button. Cool and On appear on the remote control display. | On Cool |
| 3 Set the SEG4 and SEG5 values: | |
| a Set the SEG4 value by pressing the (Low Fan) button repeatedly until the value you want to set appears on the remote control display. | Cool SEG4 |
| b Set the SEG5 value by pressing the (High Fan) button repeatedly until the value you want to set appears on the remote control display. | Cool |
| When you press the [3m] (Low Fan) or [2m] (High Fan) button, values appear in the following order: [3m] → [1m] → [2m] → [2m] | SEG5 |
| 4 Press the (Mode) button. Dry and On appear on the remote control display. | on Dry |
| Set the SEG6 and SEG8 values: a Set the SEG6 value by pressing the (Low Fan) button repeatedly until the value you want to set appears on the remote control display. | On Dry SEG6 |

| | Steps | Remote control display |
|---|---|------------------------|
| | b Set the SEG8 value by pressing the (Figh Fan) button repeatedly until the value you want to set appears on the remote control display. | On Dry SEG8 |
| | When you press the $\stackrel{\mathbb{R}^{an}}{\smile}$ (Low Fan) or $\bigcap_{\mathbb{R}^{an}}$ (High Fan) button, values appear in the following order: $\mathbb{C} - \mathbb{C} - \mathbb{C}$ | 3EU0 |
| 6 | Press the (Mode) button. Fan and On appear on the remote control display. | on Fan |
| 7 | Set the SEG9 and SEG10 values: | |
| | a Set the SEG9 value by pressing the (Low Fan) button repeatedly until the value you want to set appears on the remote control display. | Fan SEG9 |
| | b Set the SEG10 value by pressing the \bigcap_{Fan} (High Fan) button repeatedly until the value you want to set appears on the remote control display. | on Fan |
| | When you press the $\stackrel{\mathbb{R}^{n}}{\longrightarrow}$ (Low Fan) or $\widehat{\mathbb{R}^{n}}$ (High Fan) button, values appear in the following order: $\mathbb{C} \to \mathbb{C} \to \mathbb{C}$ | SEG10 |
| 8 | Press the (Mode) button. Heat and On appear on the remote control display. | On Heat |
| 9 | Set the SEG11 and SEG12 values: | |
| | a Set the SEG11 value by pressing the (Low Fan) button repeatedly until the value you want to set appears on the remote control display. | Heat SEG11 |
| | b Set the SEG12 value by pressing the \bigcap_{ran} (High Fan) button repeatedly until the value you want to set appears on the remote control display. | On Heat |
| | When you press the $\stackrel{\mathbb{R}^{nn}}{\longrightarrow}$ (Low Fan) or $\bigcap_{\mathbb{R}^{nn}}$ (High Fan) button, values appear in the following order: $\mathbb{S} \to \mathbb{R} \to \mathbb{R}$ | SEG12 |

| Steps | Remote control display |
|---|------------------------|
| 10 Press the (Mode) button. Auto and Off appear on the remote control display. | off Auto |
| 11 Set the SEG14 and SEG15 values: | |
| a Set the SEG14 value by pressing the [™] (Low Fan) button repeatedly until the value you want to set appears on the remote control display. | Auto SEG14 |
| b Set the SEG15 value by pressing the \bigcap_{Fan} (High Fan) button repeatedly until the value you want to set appears on the remote control display. | Off Auto |
| When you press the [san] (Low Fan) or (Fan) (High Fan) button, values appear in the following order: □ → □ → □ Fan | SEG15 |
| 12 Press the (Mode) button. Cool and Off appear on the remote control display. | Off Cool |
| 13 Set the SEG16 and SEG17 values: | |
| a Set the SEG16 value by pressing the [™] (Low Fan) button repeatedly until the value you want to set appears on the remote control display. | Cool SEG16 |
| b Set the SEG17 value by pressing the \bigcap_{Fan} (High Fan) button repeatedly until the value you want to set appears on the remote control display. | Off Cool |
| When you press the (Low Fan) or (Fan) (High Fan) button, values appear in the following order: 🖁 → 🖟 → E | SEG17 |
| 14 Press the (Mode) button. Dry and Off appear on the remote control display. | off Dry |

| Steps | Remote control display |
|--|------------------------|
| 15 Set the SEG18 and SEG20 values: | |
| a Set the SEG18 value by pressing the (Low Fan) button repeatedly until the value you want to set appears on the remote control display. | Off Dry SEG18 |
| b Set the SEG20 value by pressing the (Fig.) (High Fan) button repeatedly until the value you want to set appears on the remote control display. | off Dry |
| When you press the $^{\text{\tiny Ean}}$ (Low Fan) or $^{\text{\tiny Fan}}$ (High Fan) button, values appear in the following order: $^{\text{\tiny B}}$ $^{\text{\tiny A}}$ $^{\tiny A$ | SEG20 |
| 16 Press the (Mode) button. Fan and Off appear on the remote control display. | off Fan |
| 17 Set the SEG21 and SEG22 values: | |
| a Set the SEG21 value by pressing the (Low Fan) button repeatedly until the value you want to set appears on the remote control display. | Fan SEG21 |
| b Set the SEG22 value by pressing the (High Fan) button repeatedly until the value you want to set appears on the remote control display. | off Fan SEG22 |
| When you press the $\[\stackrel{\Gamma_{an}}{\smile} \]$ (Low Fan) or $\[\widehat{\rho}_{an} \]$ (High Fan) button, values appear in the following order: $\[\square + \square + \cdots \] + \square$ | SLUZZ |
| 18 Press the (Mode) button. Heat and Off appear on the remote control display. | off Heat |
| 19 Set the SEG23 and SEG24 values: | |
| a Set the SEG23 value by pressing the (Low Fan) button repeatedly until the value you want to set appears on the remote control display. | Heat SEG23 |

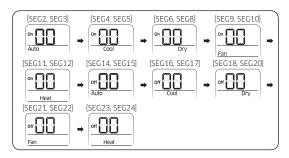
Steps

Remote control display

b Set the SEG24 value by pressing the (Fight (High Fan) button repeatedly until the value you want to set appears on the remote control display.

When you press the (Low Fan) or (Fight (High Fan) button, values appear in the following order: □ → □ → □ → □ → □

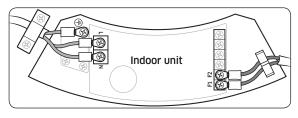
3 Check whether the option values that you have set are correct by pressing the (Mode) button repeatedly



- **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 (a) (Power) 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 (b) (Power) button again.
- **5** Check whether the air conditioner operates in accordance with the option values you have set:
 - a Reset the indoor unit by disconnecting and then reconnecting the power cable of the indoor unit or by pressing the RESET button on the outdoor unit.
 - b Remove the batteries from the remote control, insert them again, and then press the (b) (Power) button on the remote control.

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

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

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

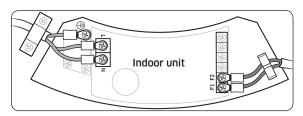
| Option | SEG1 | | SEC | SEG2 SEG3 | | G3 | SEG4 | | SEG5 | | SEG6 | |
|---------------------------|------------|------------|------------|----------------|----------------------|---|-------------------------------------|------------------------|------------------------------------|-------------------|------------------------------------|-------------------|
| Function | Page | | Mode | | Setting main address | | 100-digit of an indoor unit address | | 10-digit of an indoor unit address | | The single digit of an indoor unit | |
| | Indication | Details | Indication | Details | Indication | Details | Indication | Details | Indication | Details | Indication | Details |
| Indication | | | А | | 0 | No main address | 0 to 9 10 | 10-digit | 0 to 9 | A single digit | 0 to 3 | A single digit |
| and details | | | | | 1 | Main address setting mode | | | | | | |
| Option | SEC | 3 7 | SEC | 58 | SE | SEG9 | | SEG10 | | SEG11 | | 512 |
| Function | Pag | Page - | | Setting add | | - | | Group channel (x16) | | Group address | | |
| | Indication | Details | | | Indication | Details | | | Indication | Details | Indication | Details |
| Indication | | | | | | No RMC address | | | | | | |
| and details | 1 | | | | 1 | RMC address setting mode | | | RMC1 | 0 to F | RMC2 | 0 to F |
| Option | SEG13 | | SEG | 14 | SEG15 | | SEG16 | | SEG17 | | SEG18 | |
| Function | Page | | - | | Setting M add | | 10-digit of MCU address | | 1-digit of MCU | | MCU PORT addres | |
| | Indication | Details | | | Indication | Details | Indication | Details | Indication | Details | Indication | Details |
| | | | | 0 | | No MCU PORT | | | | | | |
| Indication and details | | | 2 | | 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 SEG 3, the indoor unit maintains the previous main address although you enter the option value for the SEG5 or SEG 6.
- If you enter 0 to the SEG 9, 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 time.
- If the indoor unit is connected to the MCU, you can set the SEG 15~18.
 - Ex.) If you want to set the indoor unit to 'A' port of MCU #1. (0A0000 100000 20101A -30000)

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

- 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 020010-100000-200000-300000 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 temperature sensor / Minimizing fan operation when thermostat is off | Use of central control | FAN RPM compensation | |
| SEG7 | SEG8 | SEG9 | SEG10 | SEG11 | SEG12 | |
| 1 | 1 Use of drain pump | | - | EEV step when heating stops | - | |
| SEG13 | SEG13 SEG14 | | SEG16 | SEG17 | SEG18 | |
| 2 | Use of external control | Setting the output of external control / External heater signal / Cooling operation signal / Free Cooling control signal | - | Buzzer control | Hours of filter usage | |
| SEG19 | SEG19 SEG20 | | SEG22 | SEG23 | SEG24 | |
| 3 | Individual control of a remote controller | Heating setting compensation / Removing Condensate Water in Heating Mode | Adjusted EEV step of stopped unit during oil return /defrost mode. | - | Cycle time of Swing | |

- 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 (Indoor 1).

Installation options for the 02 series (detailed)

Option No. for an indoor unit address: 02XXXX-1XXXXX-2XXXXXX-3XXXXXX

| Option | SEG | SEG1 SEG2 SEG3 SEG4 | | SEG5 | | SEG6 | | | | | | | | |
|----------------|------------|---------------------|------------|---------|----------------|------------------------|--------------------|---|---|------------|------------------------|--------------------------------------|-------------------------------------|--|
| Function | Pag | e | Mod | le | Evaporato | r Drying | | Use of external room temperature sensor / Minimizing fan operation when thermostat is off | | | Use of central control | | FAN RPM compensation | |
| | | | | | | | | [| Details | | | | | |
| | Indication | Details | Indication | Details | Indication | Details | Indication | Use of external temperature sensor | Minimizing fan operation when thermostat is off | Indication | Details | Indication | Details | |
| | | | | | Disuse | 0 | Default | Default | | | 0 | Disuse (recessed installation) | | |
| | | | | | | 0 | 1 | Use | | Disuse | | | | |
| | | | | | | 2 | Disuse | Use (Heating) (*2) | 0 | Disuse | | Installation | | |
| | | | | Use | 3 | Use | Use (Heating) (*2) | | | | High-ceiling mode | | | |
| | | | | 2 | (5min) (*1) | 4 | Disuse | Use (Cooling) (*2) | _ | | 1 | (recessed | | |
| Indication and | | | | | | 5 | Use | Use (Cooling) (*2) | | | | installation) | | |
| details | 0 | | | | | | 6 | Disuse | Use (Heating / Cooling) (*2) | | | | | |
| | | 2 | | | 4 | Use (10min) (*1) | 7 | Use | Use (Heating / Cooling) (*2) | | | 4 | Disuse (exposed installation) | |
| | | | | | | | 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) | | | 5 | High-ceiling mode (exposed | |
| | | | | (1) | , , | В | Use | Use (Heating / Cooling Ultra Low Fan) (*2) | | | | installation) | | |

| Option | SEG7 | 7 | | SEC | 38 | | | SEG9 | SEG1 | .0 | | SEG11 | | SEG12 | |
|------------------------|------------|---------|------------------------|--------------------|-------------------------|---|------------|--|------------|--|-------------------|-----------|------------------|-------------------------|--|
| Function | Page | 2 | | Use of dra | in pump | | Use of | hot water heat | er - | | EEV step | when heat | ting stops | - | |
| | Indication | Details | Indication | | Details | | Indicati | on Details | | | Indication | Def | tails | | |
| | | | 0 | | Disuse | | 0 | Disuse | | | 0 | Def | ault | | |
| Indication and detail | | | 1 | | Use | | 1 | Use (*3) | - | | | | | - | |
| | 1 | | | | indoor uni | | 2 | - | | | 1 | - | EEV Step ting | | |
| | | | 2 | | ump will op for 3min | berate | 3 | Use (*3) | | | | | . 3 | | |
| Option | SEG1 | 3 | SEC | G14 | | | SEG15 | ' | SEG1 | .6 | SEC | 517 | S | SEG18 | |
| Function | Page | 2 | | external itrol | External | heater s | ignal / C | ternal control / ooling operation | | | Buzzer | control | Hours of | filter usage | |
| | Indication | Details | Indication | Details | Indicatio | n | De | etails | | | Indication | Details | Indication | Details | |
| | ' | | 0 | Disuse | 0 | Exter | nal cont | rol (Thermo On |) | | | | | | |
| | | | 1 | ON or OF | 1 | Extern | al contro | ol (Operation O | n) | | 0 | Use of | 2 | 1000 haves | |
| | | | 1 | control | 2 | Exte | ernal hea | ater signal (*4) | | | 0 | buzzer | 2 | 1000 hours | |
| Indication and details | 2 | | 2 | OFF | 3 | Exte | ernal hea | ater signal (*4) | - | | | | | | |
| | 2 | | 2 | control | 4 | Cooli | ng opera | ation signal (*5) | | | | | | | |
| | | | 3 | Window ON or OF | 5 | Free Cooling control (Cooling Thermo On) (*6) 1 Disuse of buzzer 6 | 2000 hours | | | | | | | | |
| | | | 3 | control | 6 | | | control (Cooling mo On) (*6) | / | | | | r | | |
| Option | SEG1 | 9 | SEG | 20 | | S | EG21 | | S | SEG22 | | SEG23 | ! | SEG24 | |
| Function | Page | 9 | Individua with remo | | | condens | | ation offset / ter in the Heat | stopped u | Adjusted EEV step of stopped unit during oil return /defrost mode. | | - Cycle t | | time of Swing | |
| | | | | | | | Deta | ails | | | | | | | |
| | Indication | Details | Indication | Details | Indication | Heating compen offs | sation | Removing condensated water in the Heat mode | Indication | De | etails | | | n Details | |
| Indication and | | | 0 or 1 | Indoor 1 | 0 | Defa | ult | Disuse | 0 | De | efault | _ | 0 | 34 seconds (default) | |
| details | | | | | 1 | 2°(| | Disuse | | | | | 1 | 30 seconds | |
| | 3 | | 2 | Indoor 2 | 2 | 5°0 | 2 | Disuse | | | | | | | |
| | | | 3 | Indoor 3 | 3 | Defa | ult | Use (*7) | 1 | | sted EEV siton | | 2 | 38 seconds | |
| | | | 4 | Indoor 4 | 4 | 2°0 | 0 | Use (*7) | | | | | 2 | 30 3000103 | |
| | | | r | | 5 | 5°0 | 0 | Use (*7) | | | | | | | |

- (*1) When COOL or DRY mode is off. The indoor fan operate in setting minutes.
- (*2) Minimizing fan operation when thermostat is off
 - Fan operates for 20 seconds at an interval of 5 minutes in heat mode.
 - Fan stops or operates Ultra low in cooling when thermostat is off.
- (*3) 1: Fan is turned on continually when the hot water heater is turned on,
 - 3: Fan is turned off when the hot water heater is turned on with cooling only indoor unit

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

- (*4) When the following 2 or 3 is used as external heater On/Off signal, the signal for monitoring external contact control will not be output.
 - 2: Fan is turned on continually when the external heater is turned on,
 - 3: Fan is turned off when the external heater is turned on with cooling only indoor unit

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

- If Fan is set to off for cooling only indoor unit by setting the SEG9=3 or SEG15=3, you need to use an external sensor or wired remote controller sensor to detect indoor temperature exactly.
- (*5) When indoor unit is in cooling or Dry mode, The output signal is "ON".
- (*6) For free cooling control, Economizer controller is required.
- (*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.

Installation options for the 05 series

| 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 diffference between indoor units | MTFC (*3) | - |
| SEG13 | SEG14 | SEG15 | SEG16 | SEG17 | SEG18 |
| 2 | - | - | - | - | Control variables when using hot water / external heater (*4) |
| SEG19 | SEG20 | SEG21 | SEG22 | SEG23 | SEG24 |
| 3 | - | - | - | Forcing FAN Operation for Heating and Cooling | - |

Installation options for the 05 series (detailed)

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

| Option | SEG1 | SEG2 | | SEG3 | SE | SEG4 | | SEG5 | | SEG6 | |
|------------------------|--------------------|----------------|-----------------|--|---|---------|------------|-----------|------------|--|--|
| Function | Page | Mode | only in A | Auto Change Over for HR uto mode / Use of Cooling ly indoor unit of HR | (When setting SEG3) Standard heating temp. Offset | | | l cooling | Standard f | setting SEG3) for mode change ng → Cooling | |
| | Indication Details | Indication Det | ails Indication | n Details | Indication | Details | Indication | Details | Indication | Details | |
| | | 5 | 0 | Follow product option | 0 | 0°C | 0 | 0°℃ | 0 | 1℃ | |
| | | | | Follow product option | 1 | 0.5°C | 1 | 0.5°C | 1 | 1.5℃ | |
| | | | | | 2 | 1°C | 2 | 1°C | 2 | 2℃ | |
| Indication and details | 0 | | 1 | Use Auto Change Over for HR only | 3 | 1.5°C | 3 | 1.5℃ | 3 | 2.5℃ | |
| | U | J | | | 4 | 2°C | 4 | 2°C | 4 | 3℃ | |
| | | | | | 5 | 2.5°C | 5 | 2.5°C | 5 | 3.5℃ | |
| | | | 2 | Use Cooling only indoor unit for HR | 6 | 3°C | 6 | 3℃ | 6 | 4°C | |
| | | | | | 7 | 3.5℃ | 7 | 3.5℃ | 7 | 4.5℃ | |

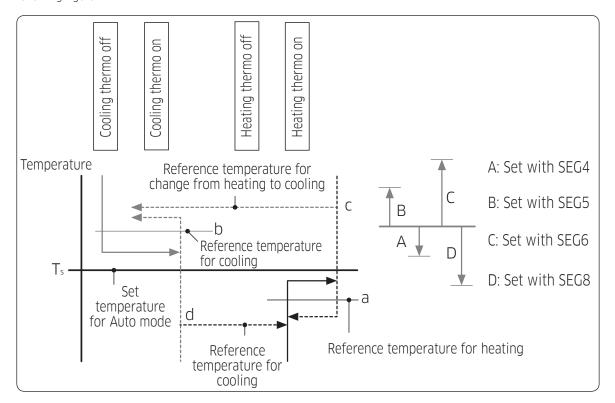
| Option | SEG7 | | SEG8 | 9 | SEG9 | | | SEG10 | | SEC | 511 | SEG12 | | |
|------------------------|--------------------|------------|--|------------|------|------|------------|---|------------|-------------------------|--------------------|-------------------------|--|--|
| Function | Page | | ting SEG3) Standard change Cooling → Heating | Time requ | | | pipe or | ation optior height diff een indoor | ference | MTF | C (*3) | - | | |
| | Indication Details | Indication | Details | Indication | Deta | ils | Indication | Det | ails | Indication | Details | | | |
| | | 0 | 1°C | 0 | 5 m | in. | 0 | Def | ault | | | | | |
| | | 1 | 1.5℃ | 1 | 7 m | in. | | (*1) Height difference is more than 30m (98.4 ft). or (*2) Distance is longer than 110m (360.89 ft). | | | | | | |
| | | 2 | 2°C | 2 | 9 m | in. | | | | 0 Def | Default | | | |
| Indication and details | 1 | 3 | 2.5℃ | 3 | 11 m | nin. | 1 | | | | | - | | |
| | | 4 | 3°C | 4 | 13 m | nin. | | (*1) H | | | | | | |
| | | 5 | 3.5℃ | 5 | 15 m | nin. | 2 | difference is 15 m (49.2ft)~30 m (98.4 | | 2 | Πcα | | | |
| | | 6 | 4°C | 6 | 20 m | nin. | 2 | ft) or (*2) [50 m (16 | | 2 | Use | | | |
| | | 7 | 4.5°C | 7 | 30 m | nin. | | m (360 | | | | | | |
| Option | SEG13 | SEG14 | SEG15 | SEC | 16 | | SEG17 | | | SEG18 | | | | |
| Function | - | - | - | - | - | | - | Control va | riables wh | en using ho | ot water / e | xternal heater (*4) | | |
| | Indication Details | | | | | | | Indication | | np. for heate On/Off | Details er Dela | y time for heater On | | |
| | | | | | | | | 0 | | same time a ermo on | IS | No delay | | |
| | | | | | | | | 1 | | same time as ermo on | | 10 minutes | | |
| | | | | | | | | 2 | | same time a ermo on | IS | 20 minutes | | |
| | | | | | | | | 3 | | 1.5 ℃ | | No delay | | |
| Indication | | | | | | | | 4 | 1.5 ℃ | | | 10 minutes | | |
| and details | | - | - | - | - | | - | 5 | | 1.5 ℃ | | 20 minutes | | |
| | 2 | | | | | | | 6 | | 3.0 ℃ | | No delay | | |
| | | | | | | | | 7 | | 3.0 ℃ | | 10 minutes | | |
| | | | | | | | | 8 | | 3.0 ℃ | | 20 minutes | | |
| | | | | | | | | 9 | | 4.5 °C | | No delay | | |
| | | | | | | | | А | | 4.5 °C | | 10 minutes | | |
| | | | | | | | | В | | 4.5 °C | | 20 minutes | | |
| | | | | | | | | С | | 6.0 °C | | No delay | | |
| | | | | | | | | D | | 6.0 °C | | 10 minutes | | |
| | | | | | | | | E | | 6.0 °C | | 20 minutes | | |

| Option | SEG19 | SEG20 | SEG21 | SEG22 | | SEG23 | | SEG24 |
|-------------|--------------------|-------|-------|-------|-------------|--------------------------|-------------------------|-------|
| Function | - | - | - | - | For | cing FAN Operation for H | eating and Cooling | - |
| | Indication Details | | | | Indication | Det | ails | |
| | Indication Details | | | | IIIuication | Cooling Fan Setting | Heating Fan Setting | |
| | | | | | 0 | Disuse | Disuse | |
| | | | | | 1 | Disuse | Use (Fan: User setting) | |
| | | | | | 2 | Disuse | Use (Fan: High) | |
| | | | | | 3 | Disuse | Use (Fan: Low) | |
| | | | | | 4 | Use (Fan: User setting) | Disuse | - |
| | | | - | - | 5 | Use (Fan: User setting) | Use (Fan: User setting) | |
| Indication | | | | | 6 | Use (Fan: User setting) | Use (Fan: High) | |
| and details | 2 | | | | 7 | Use (Fan: User setting) | Use (Fan: Low) | |
| | 2 | | | | 8 | Use (Fan: High) | Disuse | |
| | | | | | 9 | Use (Fan: High) | Use (Fan: User setting) | |
| | | | | | А | Use (Fan: High) | Use (Fan: High) | |
| | | | | | В | Use (Fan: High) | Use (Fan: Low) | |
| | | | | | С | Use (Fan: Low) | Disuse | |
| | | | | | D | Use (Fan: Low) | Use (Fan: User setting) | |
| | | | | | E | Use (Fan: Low) | Use (Fan: High) | |
| | | | | | F | Use (Fan: Low) | Use (Fan: Low) | |

- (*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 (131.2 ft) higher than the indoor unit installed at the lowest place, select the option "1".
- (*2) Distance: The difference between the pipe length of the indoor unit installed at farthest place from an outdoor unit and the pipe length of the corresponding indoor unit from an outdoor unit.
 - For example, when the farthest pipe length is 100 m (328 ft) and the corresponding indoor unit is 40 m (131.2 ft), away from an outdoor unit, select the option "2". [100 40 = 60m (328 131.2 = 196.8 ft)]
- (*3) For MTFC option, MTFC (Multi Tenant Function Controller) kit is required.
- (*4) Heater operation when the SEG9 of O2 series installation option is set to using hot water heater or when SEG15 is set to using external heater.
 - e.g. 1) Setting 02 series SEG9 ="1" / Setting 05 series SEG18 = "0": Hot water heater is turned on at the same time as the heating thermostat is on, and turned off when the heating thermostat is off.
 - e.g. 2) Setting 02 series SEG15 ="2" / Setting 05 series SEG18 ="A": Room temp. ≤ set temp. + f (heating compensation temp.)
 - External heater is turned on when the temperature is maintained as 4.5 $^{\circ}$ C (8.1 $^{\circ}$ F) for 10 minutes. Room temp. > set temp. + f (heating compensation temp.)
 - External heater is turned off when the temperature is maintained as 4.5 °C (8.1°F) + 1 °C (1.8°F) [1 °C (1.8°F) is the Hysteresis for On/Off selection.]

Additional information on SEG 3, 4, 5, 6, 8, 9

When SEG 3 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 22.

| Option | SEG1 SEG2 | | SEG3 | | SEG4 | | SEG5 | | SEG6 | | | |
|------------------------------|------------|---------|------------|---------|----------------|------------------|---------------------------|---------|----------------------|---------------------------|--------------|---------|
| Function | Pa | ge | Mc | ode | | of the change | Tens p of the num | | of the | osition option ober | New | value |
| Indication | Indication | Details | Indication | Details | Indication | Details | Indication | Details | Indication | Details | Indication | Details |
| Indication and details | (|) | [|) | 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

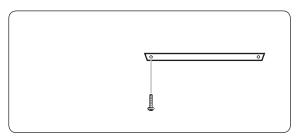
If your indoor units support both cooling and heating, the mixed operation (two or more indoor units operate in different modes simultaneously) is not available when the indoor units are connected to the same outdoor unit. If you set an indoor unit as the master indoor unit by using the remote control,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

For the installation of the circular panel

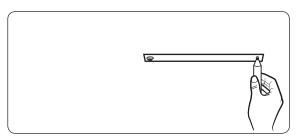
Making a circular opening on the ceiling

Use a paper compass printed on the indoor unit package. (attached inside to the upper part)

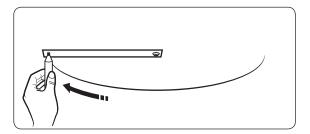
1 Use a bolt or a pin to fix pivot point of the paper compass on center of the ceiling. (in the middle of location for installation)



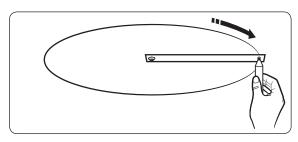
2 Put a pencil at the opposite side of the pivot point fixed in place.



3 Rotate the paper compass on its pivot point to draw a line on the ceiling.



4 Rotate the paper compass diametrically to draw a circle on the ceiling.



For the painting of the panel

- Make sure to only apply paints and varnishes for resins (ABS, HIPS) or paint thinners.
- If you apply lacquers for general use on the panel, it may lead to discoloration or erosion on the surface of the panel.

Troubleshooting

| | | Indo | or unit disp | olay indica | tions |
|--|------------|----------|-----------------|-------------|-------|
| Condition of the indoor unit | Error code | Ice blue | Yellow green | Blue | Red |
| Power reset (blinking once every 2 seconds) | No error | • | Х | Х | Х |
| In the defrost operation (blinking once every 10 seconds) | No error | • | Х | Х | Х |
| Open or short circuit error of the indoor-temperature sensor | E121 | Х | Χ | Х | • |
| Open or short circuit error of the evaporator-in sensor | E122 | V | | V | |
| Open or short circuit error of the evaporator-out sensor | E123 | - X | • | X | |
| Error of the fan in the indoor unit | E154 | Х | Х | • | • |
| 1. Open or short circuit error of the outdoor-temperature sensor | E221 | | | | |
| 2. Open or short circuit error of the condenser sensor | E237 | | | | |
| 3. Open or short circuit error of the discharge sensor | E251 | | | | |
| Errors of the sensors of the outdoor unit other than the errors listed above | | | | | |
| 1. Error due to the opened EEV (2nd detection) | E151 | | | | |
| 2. Error due to the closed EEV (2nd detection) | E152 | | | | |
| 3. The evaporator-in sensor is detached. | E128 | | | | |
| 4. The evaporator-out sensor is detached. | E129 | | | | |
| 5. The condenser mid sensor is detached. | E241 | | V | | |
| 6. Refrigerant leakage (2nd detection) | E554 | X | Χ | • | Х |
| 7. Abnormal high temperature on the condenser (2nd detection) | E554 | | | | |
| 8. Low pressure switch (2nd detection) | E451 | | | | |
| 9. Abnormal high temperature on the air discharged from the outdoor unit (2nd detection) | E416 | | | | |
| 10. The indoor unit stops due to an unknown error of the outdoor unit. | E559 | | | | |
| 11. Error of detection of a reverse phase | E425 | | | | |
| 12. The compressor stops due to freeze detection (6th detection) | E403 | | | | |
| 13. The high pressure sensor is detached. | E301 | | | | |
| 14. The low pressure sensor is detached. | E306 | | | | |

Troubleshooting

| | | Indo | or unit disp | olay indica | tions |
|---|------------|----------|-----------------|-------------|-------|
| Condition of the indoor unit | Error code | Ice blue | Yellow green | Blue | Red |
| 15. Compression ratio error of the outdoor unit | E428 | | | | |
| 16. Outdoor sump down_1 prevention control | E413 | | | | |
| 17. Compressor shutdown due to the low-pressure-sensor prevention control_1 | E410 | | | | |
| 18. Simultaneous opening of the cooling and heating MCU SOL valves (1st detection) | E180 | Х | Χ | • | X |
| 19. Simultaneous opening of the cooling and heating MCU SOL valves (2nd detection) | E181 | | | | |
| Self-diagnosis errors other than the errors listed above | | | | | |
| No communication occurs between the indoor and outdoor units for 2 minutes. | E101 | | | | |
| Communication error received from the outdoor unit | E102 | | | | |
| Error of 3 minute tracking on the outdoor unit | E202 | | | | |
| The number of the installed indoor units that is transmitted via communication after the tracking is different. | E201 | Х | • | Х | X |
| Error of duplicated communication addresses (NASA only) | E108 | | | | |
| The communication address is not confirmed. (NASA only) | E109 | | | | |
| Communication errors other then the errors listed above | | | | | |
| Error of the second detection of the float switch | E153 | Χ | • | • | Х |
| EEPROM error | E162 | | | V | |
| EEPROM option error | E163 | | • | X | |
| Error of incompatibility of the indoor unit | E164 | • | Х | Х | • |
| Error of mixed operation | E161 | • | • | Х | Х |
| Open circuit error of the thermal fuse | E198 | • | Χ | • | Х |

•: On, •: Blinking, X: Off

Memo

pendix

SAMSUNG