Duct Type Series

BIG duct : AM✳✳✳FNHDEH✳

# Air Conditioner

## user manual

imagine the possibilities

Thank you for purchasing this Samsung product.

EN ES FR IT PT DE EL NL PL HU DB68-03655A-07

SAMSUNG

# features of your new air conditioner

- ## Cool Summer Offer

  On those hot sweltering summer days and long restless nights, there is no better escape from the heat than the cool comforts of home. Your new air conditioner brings an end to exhausting hot summer days and lets you rest. This summer, beat the heat with your own air conditioner.

- ## Cost Efficient System

  Your new air conditioner not only provides maximum cooling power in the summer, but can also be an efficient heating method in the winter with the advanced “Heat pump” system. This technology is up to 300% more efficient than electrical heating, so you can further reduce its running cost. Now, meet year-round needs with one air conditioner.

- ## Flexible installation

  Duct type air conditioner is designed to be slimmer and offers different solutions for any shape room allowing for specific air flow requirements. Also, the air intake can be set up on either the bottom or rear of the unit, so there is more flexibility in installation.

# safety information

Before using your new air conditioner, please read this manual thoroughly to ensure that you know how to safely and efficiently operate the extensive features and functions of your new appliance.

Because the following operating instructions cover various models, the characteristics of your air conditioner may differ slightly from those described in this manual. If you have any questions, call your nearest contact center or find help and information online at www.samsung.com.

**Important safety symbols and precautions:**

| | |
|---|---|
| **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.** |
| | Follow directions. |
| | Do NOT attempt. |
| | Make sure the machine is grounded to prevent electric shock. |
| | Unplug the power plug from the wall socket. |
| | Do NOT disassemble. |

## FOR INSTALLATION WARNING

**Use the power line with the power specifications of the product or higher and use the power line for this appliance only. In addition, do not use an extension line.**

▶Extending the power line may result in electric shock or fire.

▶Do not use an electric transformer. It may result in electric shock or fire.

▶If the voltage/frequency/rated current condition is different, it may cause fire.

**The installation of this appliance must be performed by a qualified technician or service company.**

▶Failing to do so may result in electric shock, fire, explosion, problems with the product, or injury.

ENGLISH

# safety information

## FOR INSTALLATION ⚠ WARNING

**Install a switch and circuit breaker dedicated to the air conditioner.**

▶Failing to do so may result in electric shock or fire.

**Fix the outdoor unit firmly so that the electric part of the outdoor unit is not exposed.**

▶Failing to do so may result in electric shock or fire.

**Do not install this appliance near a heater, inflammable material. Do not install this appliance in a humid, oily or dusty location, in a location exposed to direct sunlight and water (rain drops). Do not install this appliance in a location where gas may leak.**

▶This may result in electric shock or fire.

**Never install the outdoor unit in a location such as on a high external wall where it could fall.**

▶If the outdoor unit falls, it may result in injury, death or property damage.

**This appliance must be properly grounded. Do not ground the appliance to a gas pipe, plastic water pipe, or telephone line.**

▶Failure to do so may result in electric shock, fire, an explosion, or other problems with the product.

▶Never plug the power cord into a socket that is not grounded correctly and make sure that it is in accordance with local and national codes.

## FOR INSTALLATION ⚠ CAUTION

**Install your appliance on a level and hard floor that can support its weight.**

▶Failing to do so may result in abnormal vibrations, noise, or problems with the product.

**Install the draining hose properly so that water is drained correctly.**

▶Failing to do so may result in water overflowing and property damage.

**When installing the outdoor unit, make sure to connect the draining hose so that draining is performed correctly.**

▶The water generated during the heating operation by the outdoor unit may overflow and result in property damage. In particular, in winter, if a block of ice falls, it may result in injury, death or property damage.

## FOR POWER SUPPLY ⚠ WARNING

**When the circuit breaker is damaged, contact your nearest service center.**

**Do not pull or excessively bend the power line. Do not twist or tie the power line. Do not hook the power line over a metal object, place a heavy object on the power line, insert the power line between objects, or push the power line into the space behind the appliance.**

▶This may result in electric shock or fire.

## FOR POWER SUPPLY ⚠ CAUTION

**When not using the air conditioner for a long period of time or during a thunder/lightning storm, cut the power at the circuit breaker.**

▶Failing to do so may result in electric shock or fire.

## FOR USING ⚠ WARNING

**If the appliance is flooded, please contact your nearest service center.**

▶Failing to do so may result in electric shock or fire.

**If the appliance generates a strange noise, a burning smell or smoke, unplug the power plug immediately and contact your nearest service center.**

▶Failing to do so may result in electric shock or fire.

**In the event of a gas leak (such as propane gas, LP gas, etc.), ventilate immediately without touching the power line. Do not touch the appliance or power line.**

▶Do not use a ventilating fan.

▶A spark may result in an explosion or fire.

**To reinstall the air conditioner, please contact your nearest service center.**

▶Failing to do so may result in problems with the product, water leakage, electric shock, or fire.

▶A delivery service for the product is not provided. If you reinstall the product in another location, additional construction expenses and an installation fee will be charged.

▶Especially, when you wish to install the product in an unusual location such as in an industrial area or near the seaside where it is exposed to the salt in the air, please contact your nearest service center.

## FOR USING ⚠ WARNING

**Do not touch the circuit breaker with wet hands.**

▶This may result in electric shock.

**Do not strike or pull the air conditioner with excessive force.**

▶This may result in fire, injury, or problems with the product.

**Do not place an object near the outdoor unit that allows children to climb onto the machine.**

▶This may result in children seriously injuring themselves.

**Do not turn the air conditioner off with the circuit breaker while it is operating.**

▶Turning the air conditioner off and then on again with the circuit breaker may cause a spark and result in electric shock or fire.

**After unpacking the air conditioner, keep all packaging materials well out of the reach of children, as packaging materials can be dangerous to children.**

▶If a child places a bag over its head, it may result in suffocation.

**Do not insert your fingers or foreign substances into the outlet when the air conditioner is operating or the air flow blade is closing.**

▶Take special care that children do not injure themselves by inserting their fingers into the product.

**Do not touch the air flow blade with your hands or fingers during the heating operation.**

▶This may result in electric shock or burns.

**Do not insert your fingers or foreign substances into the air inlet/outlet of the air conditioner.**

▶Take special care that children do not injure themselves by inserting their fingers into the product.

**Do not use this air conditioner for long periods of time in badly ventilated locations or near infirm people.**

▶Since this may be dangerous due to a lack of oxygen, Open a window at least once an hour.

## FOR USING ⚠ WARNING

**If any foreign substance such as water has entered the appliance, cut the power by unplugging the power plug and turning the circuit breaker off and then contact your nearest service center.**

▶Failing to do so may result in electric shock or fire.

**Do not attempt to repair, disassemble, or modify the appliance yourself.**

▶Do not use any fuse (such as copper, steel wire, etc.) other than the standard fuse.

▶Failing to do so may result in electric shock, fire, problems with the product, or injury.

## FOR USING ⚠ CAUTION

**Do not place objects or devices under the indoor unit.**

▶Water dripping from the indoor unit may result in fire or property damage.

**Check that the installation frame of the outdoor unit is not broken at least once a year.**

▶Failing to do so may result in injury, death or property damage.

**Max current is measured according to IEC standard for safety and current is measured according to ISO standard for energy efficiency.**

**Do not stand on top of the appliance or place objects (such as laundry, lighted candles, lighted cigarettes, dishes, chemicals, metal objects, etc.) on the appliance.**

▶This may result in electric shock, fire, problems with the product, or injury.

**Do not operate the appliance with wet hands.**

▶This may result in electric shock.

**Do not spray volatile material such as insecticide onto the surface of the appliance.**

▶As well as being harmful to humans, it may also result in electric shock, fire or problems with the product.

**Do not drink the water from the air conditioner.**

▶The water may be harmful to humans.

**Do not apply a strong impact to the remote controller and do not disassemble the remote controller.**

**Do not touch the pipes connected with the product.**

▶This may result in burns or injury.

**Do not use this air conditioner to preserve precision equipment, food, animals, plants or cosmetics, or for any other unusual purposes.**

▶This may result in property damage.

# safety information

## FOR USING ⚠ CAUTION

**Avoid directly exposing humans, animals or plants from the air flow from the air conditioner for long periods of time.**

▶This may result in harm to humans, animals or plants.

**This appliance is not intended for use by persons (including children) with reduced physical, sensory or mental capabilities, or lack of experience and knowledge, unless they have been given supervision or instruction concerning use of the appliance by a person responsible for their safety. Children should be supervised to ensure that they do not play with the appliance.**

**For use in Europe: This appliance can be used by children aged from 8 years and above and persons with reduced physical, sensory or mental capabilities or lack of experience and knowledge if they have been given supervision or instruction concerning use of the appliance in a safe way and understand the hazards involved. Children shall not play with the appliance. Cleaning and user maintenance shall not be made by children without supervision.**

## FOR CLEANING ⚠ WARNING

**Do not clean the appliance by spraying water directly onto it. Do not use benzene, thinner, alcohol or acetone to clean the appliance.**

▶This may result in discoloration, deformation, damage, electric shock or fire.

**Before cleaning or performing maintenance, unplug the air conditioner from the wall socket and wait until the fan stops.**

▶Failing to do so may result in electric shock or fire.

## FOR CLEANING ⚠ CAUTION

**Take care when cleaning the surface of the heat exchanger of the outdoor unit since it has sharp edges.**

▶To avoid cutting your fingers, wear thick cotton gloves when cleaning it.

**Do not clean the inside of the air conditioner by yourself.**

▶For cleaning inside the appliance, contact your nearest service center.

▶When cleaning the internal filter, refer to the descriptions in the 'Cleaning and maintaining the air conditioner' section.

▶Failure to do may result in damage, electric shock or fire.

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***Correct Disposal of This Product (Waste Electrical & Electronic Equipment)***

***(Applicable in countries with separate collection systems)***

This marking on the product, accessories or literature indicates that the product and its electronic accessories (e.g. charger, headset, USB cable) should not be disposed of with other household waste at the end of their working life. To prevent possible harm to the environment or human health from uncontrolled waste disposal, please separate these items from other types of waste and recycle them responsibly to promote the sustainable reuse of material resources.

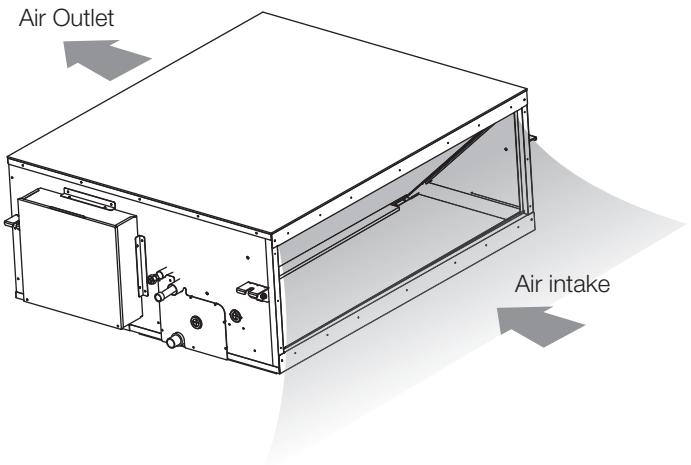
Household users should contact either the retailer where they purchased this product, or their local government office, for details of where and how they can take these items for environmentally safe recycling.

Business users should contact their supplier and check the terms and conditions of the purchase contract. This product and its electronic accessories should not be mixed with other commercial wastes for disposal.

# viewing your air conditioner

Congratulations on the purchase of the air conditioner. We hope you enjoy the features of your air conditioner and stay cool or warm with optimal efficiency.
Please read the user manual to get started and to make the best use of the air conditioner.

## BIG DUCT TYPE




Your air conditioner may look slightly different from the illustration shown above depending on your model.

# using your air conditioner

## TIPS ON USING YOUR AIR CONDITIONER

Here are some tips that you would follow when using your air conditioner.

| TOPIC | RECOMMENDATION |
|---|---|
| **Cooling** | • If current outside temperatures are much higher than the selected indoor temperature, it may take time to bring the inner temperature to the desired coolness.<br>• Avoid drastically turning down the temperature.<br>Energy is wasted and the room does not cool faster. |
| **Heating** | • Since the air conditioner heats the room by taking heat energy from outdoor air, the heating capacity may decrease when outdoor temperatures are extremely low. If you feel the air conditioner insufficiently heats, using an additional heating appliance in combination with the air conditioner is recommended. |
| **Frost & De-ice** | • When the air conditioner runs in Heat mode, due to temperature difference between the unit and the outside air, frost will form.<br>If this happens:<br>- The air conditioner stops heating.<br>- The air conditioner will operate automatically in De-ice mode for 10 minutes.<br>- The steam produced on the outdoor unit in De-ice mode is safe.<br>No intervention is required; after about 10 minutes, the air conditioner operates again normally.<br>The unit will not operate when it starts to de-ice. |
| **Fan** | • Fan may not operate for about 3~5 minutes at the beginning to prevent any cold blasts while the air conditioner is warming up. |
| **High indoor/outdoor temperatures** | • If both indoor and outdoor temperatures are high and the air conditioner is running in Heat mode, the outdoor unit's fan and compressor may stop at times. This is normal; wait until the air conditioner turns on again. |
| **Power failure** | • If a power failure occurs during the operation of the air conditioner, the operating immediately stops and unit will be off. When power returns, the air conditioner will run automatically. |
| **Protection mechanism** | • If the air conditioner has just been turned on after operation stops or being plugged in, cool/warm air does not come out for 3 minutes to protect the compressor of the outdoor unit. |

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# cleaning and maintaining the air conditioner

## MAINTAINING YOUR AIR CONDITIONER

If the air conditioner will not be used for an extended period of time, dry the air conditioner to maintain it in best condition.

1. Dry the air conditioner thoroughly by operating in Fan mode for 3 to 4 hours and disconnect the power plug. There may be internal damage if moisture is left in components.
2. Before using the air conditioner again, dry the inner components of the air conditioner again by running in Fan mode for 3 to 4 hours. This helps remove odors which may have generated from dampness.

### Periodical checks

Refer to the following chart to maintain the air conditioner properly.

| Type | Description | Monthly | Every 4 months | Once a year |
|---|---|---|---|---|
| Indoor unit | Clean the air filter (1) | ● | | |
| | Clean the condensate drain pan (2) | | | ● |
| | Thoroughly clean the heat exchanger (2) | | | ● |
| | Clean the condensate drain pipe (2) | | ● | |
| | Replace the remote control batteries (1) | | | ● |
| Outdoor unit | Clean the heat exchanger on the outside of the unit (2) | | ● | |
| | Clean the heat exchanger on the inside of the unit (2) | | | ● |
| | Clean the electric components with jets of air (2) | | | ● |
| | Verify that all the electric components are firmly tightened (2) | | | ● |
| | Clean the fan (2) | | | ● |
| | Verify that all the fan assembly is firmly tightened (2) | | | ● |
| | Clean the condensate drain pan (2) | | | ● |

The checks and maintenance operations described are essential to guarantee the efficiency of the air conditioner. The frequency of these operations varies according to the characteristics of the area, the amount of dust, etc.

(1) The described operations should be performed more frequently if the area of installation is very dusty.

(2) These operations must always be performed by qualified personnel. For more detailed information, see the Installation Manual.

## Internal protections via the unit control system

This internal protection operates if an internal fault occurs in the air conditioner.

| Type | Description |
|---|---|
| **Against cold air** | The internal fan will be off to against cold air when the heat pump is heating. |
| **De-ice cycle** | The internal fan will be off to against cold air when the heat pump is heating. |
| **Anti-protection of internal battery** | The compressor will be off to protect internal battery when the air conditioner operates in Cool mode. |
| **Protect compressor** | The air conditioner does not start operating immediately to protect the compressor of the outdoor unit after it has been started. |

If the heat pump is operating in Heat mode, De-ice cycle is actuated to remove frost from an outdoor unit that may have deposited at low temperatures.

The internal fan is switched off automatically and restarted only after the de-ice cycle is completed.

## TROUBLESHOOTING

Refer to the following chart if the air conditioner operates abnormally. This may save time and unnecessary expenses.

| PROBLEM | SOLUTION |
|---|---|
| **The air conditioner does not operate immediately after it has been restarted.** | • Because of the protective mechanism, the appliance does not start operating immediately to keep the unit from overloading.<br>The air conditioner will start in 3 minutes. |
| **The air conditioner does not work at all.** | • Check that the power plug is properly connected. Insert the power plug into the wall socket correctly.<br>• Check if the circuit breaker is switched off.<br>• Check if there is a power failure.<br>• Check your fuse. Make sure it is not blown out. |
| **The temperature does not change.** | • Check if you selected Fan mode.<br>Press the **Mode** button on the remote control to select another mode. |
| **The cool (warm) air does not come out of the air conditioner.** | • Check if the set temperature is higher (lower) than the current temperature. Press the **Temperature** button on the remote control to change the set temperature.<br>Press the **Temperature** button to decrease or increase the temperature.<br>• Check if the air filter is blocked by dirt. Clean the air filter every two weeks.<br>• Check if the air conditioner has just been turned on. If so, wait 3 minutes. Cool air does not come out to protect the compressor of the outdoor unit.<br>• Check if the air conditioner is installed in a place with a direct exposure to sunlight. Hang curtains on windows to boost cooling efficiency.<br>• Check if the cover or any obstacle is not near the outdoor unit.<br>• Check if the refrigerant pipe is too long.<br>• Check if the air conditioner is only available in Cool mode.<br>• Check if the remote control is only available for cooling model. |
| **The fan speed does not change.** | • Check if you selected Auto or Dry mode.<br>The air conditioner automatically adjusts the fan speed to Auto in Auto/Dry mode. |
| **Timer function does not set.** | • Check if you press the **Power** button on the remote control after you have set the time. |
| **Odors permeate in the room during operation.** | • Check if the appliance is running in a smoky area or if there is a smell entering from outside. Operate the air conditioner in Fan mode or open the windows to air out the room. |
| **The air conditioner makes a bubbling sound.** | • A bubbling sound may be heard when the refrigerant is circulating through the compressor. Let the air conditioner operate in a selected mode.<br>• When you press the **Power** button on the remote control, noise may be heard from the drain pump inside the air conditioner. |
| **Water is dripping from the air flow blades.** | • Check if the air conditioner has been cooling for an extended period of time with the air flow blades pointed downwards. Condensation may generate due to the difference in temperature. |
| **Remote control is not working.** | • Check if your batteries are depleted.<br>• Make sure batteries are correctly installed.<br>• Make sure nothing is blocking your remote control sensor.<br>• Check that there are strong lighting apparatus near the air conditioner. Strong light which comes from fluorescent bulbs or neon signs may interrupt the electric waves. |
| **The air conditioner does not turn on or off with the wired remote control.** | • Check if you set the wired remote control for group control. |
| **The wired remote control does not operate.** | • Check if TEST indicator is displayed on the wired remote control. If so, turn off the unit and switch off the circuit breaker. Call your nearest contact center. |
| **The indicators of the digital display flashes.** | • Press the **Power** button on the remote control to turn the unit off and switch the circuit breaker off. Then, switch it on again. |

## OPERATION RANGES

The table below indicates the temperature and humidity ranges the air conditioner can be operated within. Refer to the table for efficient use.

| MODE | OPERATIONAL TEMPERATURE | | INDOOR HUMIDITY | IF OUT OF CONDITIONS |
|---|---|---|---|---|
| | INDOOR | OUTDOOR | | |
| COOLING | 18˚C to 32˚C | -5˚C to 48˚C | 80% or less | Condensation may occur on the indoor unit with risk to have either water blow off or drops on the floor. |
| HEATING | 27˚C or less | -20˚C to 24˚C | - | Internal protection triggers and the air conditioner will stop. |
| DRYING | 18˚C to 32˚C | -5˚C to 48˚C | - | Condensation may occur on the indoor unit with risk to have either water blow off or drops on the floor. |

The standardized temperature for heating is 7˚C. If the outdoor temperature drops to 0˚C or below, the heating capacity can be reduced depending on the temperature condition.
If the cooling operation is used at over 32˚C(indoor temperature), it does not cool at its full capacity.

## MODEL SPECIFICATION (WEIGHT AND DIMENSION)

| Type | Model | Net weight | Net dimension (W×D×H) |
|---|---|---|---|
| Indoor unit (NASA) | AM220FNHDEH/EU | 89.0 kg | 1240×1040×470 mm |
| | AM280FNHDEH/EU | 89.0 kg | 1240×1040×470 mm |

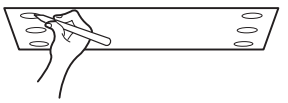
# Installation Part

## Indoor Unit Installation

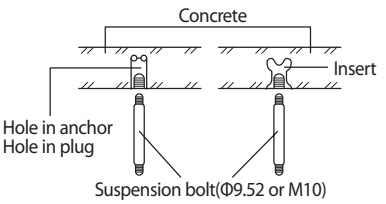
***It is recommended to install the Y-joint before installing the indoor unit.***

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

   *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 maintain the correct dimensions between the markings.



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



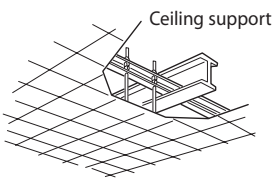

3. Install the suspension bolts depending on the ceiling type.

   CAUTION

   ◆ Ensure that the ceiling is strong enough to support the weight of the indoor unit. Before hanging the unit, test the strength of each attached suspension bolt.

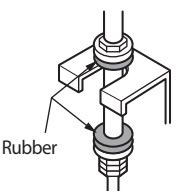
   ◆ If the length of suspension bolt is more than 1.5m, it is required to prevent vibration.

   ◆ If this is not possible, create an opening on the false ceiling in order to be able to use it to perform the required operations on the indoor unit.




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

   CAUTION You must install the suspension bolts more than four wh talling the indoor unit.



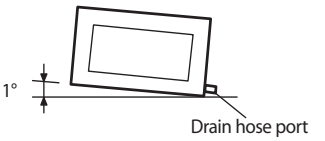

5. Hang the indoor unit to the suspension bolts between two nuts.

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

6. Screw the nuts to suspend the unit.

7. Adjust level of the unit by using measurement plate for all 4 sides.

   *Note* For proper drainage of condensate, give a 1° slant to the left or right side of the unit which will be connected with the drain hose, as shown in the figure. Make a tilt when you wish to install the drain pump, too.

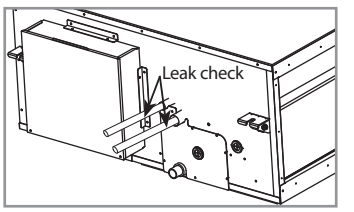



## Performing Leak Test & Insulation

### Leak test

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

***LEAK TEST WITH R-410A(after opening valves)***
***Before opening valves, discharge all the nitrogen into the system and create vacuum. After opening valves check leaks using a leak detector for refrigerant R-410A.***




CAUTION

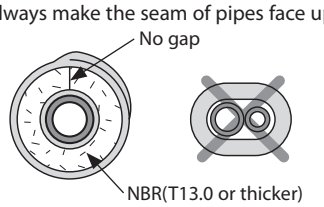
***Discharge all the nitrogen to create a vacuum and charge the system.***

### Insulation

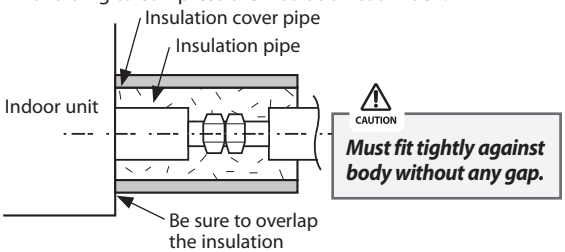
***Once you have checked that there are no leaks in the system, you can insulate the piping and hose.***

1. To avoid condensation problems, place **T13.0 or thicker 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 to compress the insulation too much.




3. Finish wrapping insulating tape around the rest of the pipes leading to the outdoor unit.

4. The pipes and electrical cables connecting the indoor unit with the outdoor unit must be fixed to the wall with suitable ducts.

CAUTION

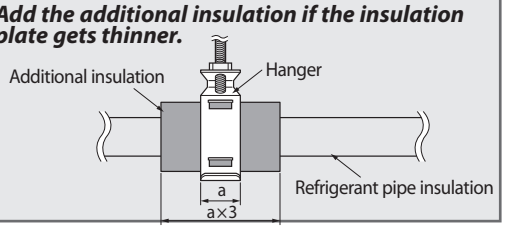
***All refrigerant connection must be accessible, in order to permit either unit maintenance or removing it completely.***

5. Select the insulation of the refrigerant pipe.
   - ◆ Insulate the gas side and liquid side pipe referring to the thickness according to the pipe size.
   - ◆ Indoor temperature of 30°C and humidity of 85% is the standard condition.
     If install in a high humidity condition,use one grade thicker insulator by referring to the table below.
     If installing in an unfavorable conditions,use thicker one.
   - ◆ Insulator's heat-resistance temperature should be more than 120°C.

| Pipe | Pipe size | Insulation Type(Heating/Cooling) | | Remarks |
|---|---|---|---|---|
| | | Standard [30°C,85%] | High humidity [30°C,over 85%] | |
| | | EPDM,NBR | | |
| Liquid pipe | Φ6.35~Φ9.52 | 9t | ← | Internal temperature is higher than 120°C |
| | Φ12.7~Φ50.80 | 13t | ← | |
| Gas Pipe | Φ6.35 | 13t | 19t | |
| | Φ9.52 | 19t | 25t | |
| | Φ12.70 | | | |
| | Φ15.88 | | | |
| | Φ19.05 | | | |
| | Φ22.23 | | | |
| | Φ25.40 | | | |
| | Φ28.58 | | 32t | |
| | Φ31.75 | | | |
| | Φ38.10 | | | |
| | Φ44.45 | | | |
| | Φ50.80 | 25t | 38t | |

CAUTION

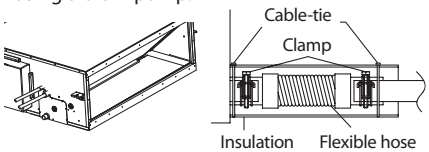
- ◆ ***Install the insulation not to get wider and use the adhesives on the connection part of it to prevent moisture from entering.***
- ◆ ***Wind the refrigerant pipe with insulation tape if it is exposed to outside sunlight.***
- ◆ ***Install the refrigerant pipe respecting that the insulation does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




## Drain pipe and Drain Hose Installation

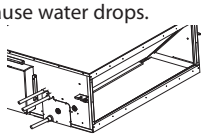
1. Install the drain hose as short as possible.

*Note*
- ◆ Give a 10mm slant to the drain hose for proper drainage of condensate.
- ◆ Secure the drain hose with the cable-tie not to be separated from the unit.
- ◆ The drain pump connection port is used when using a drain pump.




2. Insulate the drain hose and then fix it as a picture.

*Note*
- ◆ Assemble flexible hose with clamps between indoor unit and drain pipe.
- ◆ Flexible hose clamps should be assembled tightly to prevent being loosen. If it is loosen, it may cause water drops.



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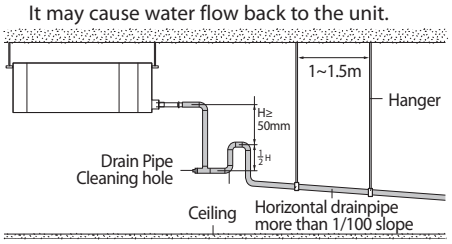
## Drainpipe Connection

***Without the drain pump***

1. Install horizontal drainpipe with a slope of 1/100 or more and fix it by hanger space of 1.0~1.5m.
2. Install U-trap at the end of the drainpipe to prevent a nasty smell to reach the indoor unit.
3. Do not install the drainpipe to upward position. It may cause water flow back to the unit.

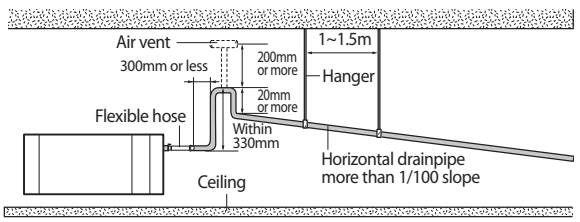



***With the drain pump***

1. The drain pipe should be installed within 300mm to 550mm from the flexible hose and then lift down 20mm or more.
2. Install horizontal drainpipe with a slope of 1/100 or more and fix it by hanger space of 1.0~1.5m.
3. Install the air vent in the horizontal drainpipe to prevent water flow back to the indoor unit.

   ***Note*** You may not need to install it if there were proper slope in the horizontal drainpipe.

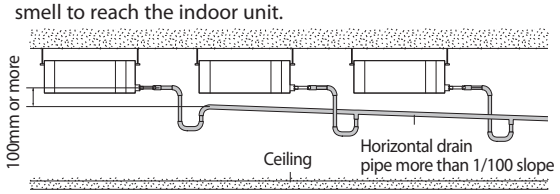
4. The flexible hose should not be installed upward position, it may cause water flow back to the indoor unit.




## Centralized Drainage

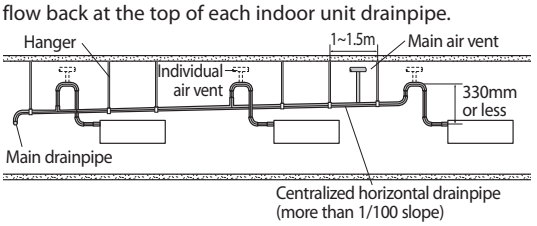
***Without the drain pump***

1. Install horizontal drainpipe with a slope of 1/100 or more and fix it by hanger space of 1.0~1.5m.
2. Install U-trap at the end of the drainpipe to prevent a nasty smell to reach the indoor unit.




***With the drain pump***

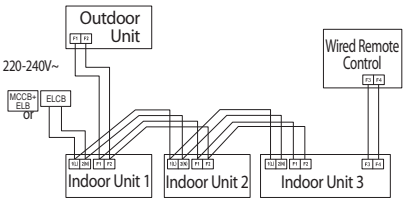
1. Install main air vent at the front of the farthest indoor unit from the main drain when installed indoor units are more than 3.
2. You may need to install individual air vent to prevent water flow back at the top of each indoor unit drainpipe.




# Wiring Work

## Power and communication cable connection

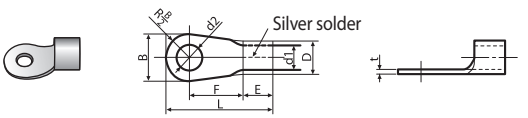
1. Before wiring work, you must turn off all power source.
2. Indoor unit power should be supplied through the breaker(ELCB or MCCB+ELB) separated by the outdoor power.
   ELCB: Earth Leakage Circuit Breaker
   MCCB:Molded Case Circuit Breaker
   ELB:Earth Leakage Breaker
3. The power cable should be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




❊ ELCB : Essential Installation

WARNING
Power off before connecting any wires;
Indoor PBA will be damaged while V1,V2,F3,F4 short each other.

## Selecting compressed ring terminal




| Nominal dimensions for cable ($mm^2$) | Nominal dimensions for screw (mm) | B | | D | | d1 | | E | F | L | d2 | | t |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | 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 -0.2 | 1.7 | ±0.2 | 4.1 | 6 | 16 | 4.3 | +0.2 0 | 0.7 |
| | 4 | 8 | | | | | | | | | | | |
| 2.5 | 4 | 6.6 | ±0.2 | 4.2 | +0.3 -0.2 | 2.3 | ±0.2 | 6 | 6 | 17.5 | 4.3 | +0.2 0 | 0.8 |
| | 4 | 8.5 | | | | | | | | | | | |
| 4 | 4 | 9.5 | ±0.2 | 5.6 | +0.3 -0.2 | 3.4 | ±0.2 | 6 | 5 | 20 | 4.3 | +0.2 0 | 0.9 |

## Specification of electronic wire

| Power supply | MCCB | ELB or ELCB | Power cable | Earth cable | Communication cable |
|---|---|---|---|---|---|
| Max : 242V<br>Min : 198V | X A | X A, 30mmA<br>0.1 s | $2.5mm^2$ | $2.5mm^2$ | $0.75\sim1.5mm^2$ |

◆ Decide the capacity of ELCB(or MCCB+ELB) by below formula.

◆ 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)

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

✳ X : The capacity of ELCB(or MCCB+ELB).
✳ ∑Ai : Sum of Rating currents of each indoor unit.
✳ Refer to each installation manual about the rating current of indoor unit.

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

$$\sum_{k=1}^{n}\left(\frac{Coef\times35.6\times L_k\times i_k}{1000\times A_k}\right) < \text{10\% of input voltage[V]}$$

✳ Coef: 1.55
✳ $L_k$: Distance among each indoor unit[m],
$A_k$: Power cable specification[$mm^2$], $i_k$: Running current of each unit[A]

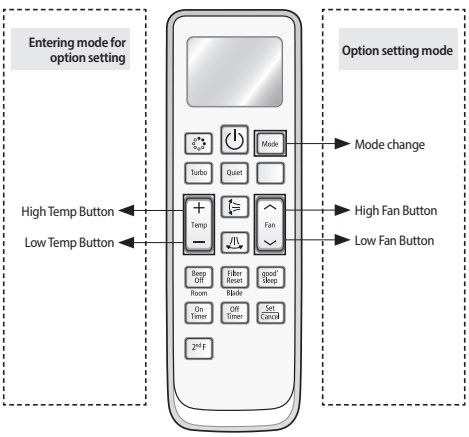
❊ Run transmission wiring between the indoor and outdoor units through a conduit to protect against external forces, and feed the conduit through the wall together with refrigerant piping.

# Setting an indoor unit address and installation option

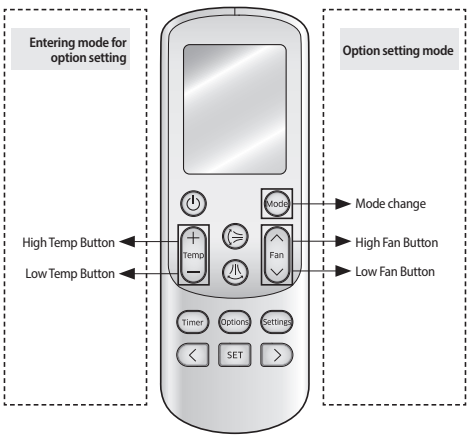
***Set the indoor unit address and installation option with remote controller option.***
***Set the each option separately since you cannot set the ADDRESS setting and indoor unit installation setting option at the same time. You need to set twice when setting indoor unit address and installation option.***

## The procedure of option setting

**MR-DC00, MR-DH00**




**MR-EC00, MR-EH00**




✻ The display of the remote controller may be different depending on the model.

***Step 1. Entering mode to set option***

1. Remove batteries from the remote controller.
2. Insert batteries and enter the option setting mode while pressing High Temp button and Low Temp button.
3.

Check if you have entered the option setting status.

***Step 2. The procedure of option setting***

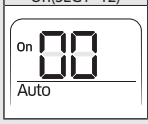
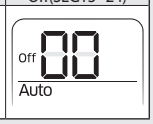
After entering the option setting status, select the option as listed below.

CAUTION

***Option setting is available from SEG1 to SEG 24***

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

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

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





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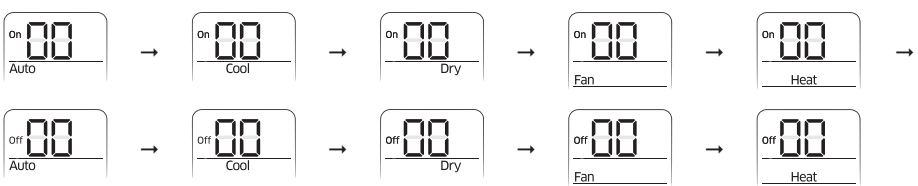
## Setting an indoor unit address and installation option(Continued)

| Option setting | Status |
|---|---|
| 1. Setting SEG2, SEG3 option<br>Press Low Fan button(∨) to enter SEG2 value.<br>Press High Fan button(∧) to enter SEG3 value.<br>Each time you press the button, 0 → 1 → ··· E → F will be selected in rotation. | On 0 Auto (SEG2)<br>On 0 Auto (SEG3) |
| 2. Setting Cool mode<br>Mode Press Mode button to be changed to Cool mode in the ON status. | On 00 Cool |
| 3. Setting SEG4, SEG5 option<br>Press Low Fan button(∨) to enter SEG4 value.<br>Press High Fan button(∧) to enter SEG5 value.<br>Each time you press the button, 0 → 1 → ··· E → F will be selected in rotation. | On 0 Cool (SEG4)<br>On 0 Cool (SEG5) |
| 4. Setting Dry mode<br>Mode Press Mode button to be changed to DRY mode in the ON status. | On 00 Dry |
| 5. Setting SEG6, SEG8 option<br>Press Low Fan button(∨) to enter SEG6 value.<br>Press High Fan button(∧) to enter SEG8 value.<br>Each time you press the button, 0 → 1 → ··· E → F will be selected in rotation. | On 0 Dry (SEG6)<br>On 0 Dry (SEG8) |
| 6. Setting Fan mode<br>Mode Press Mode button to be changed to FAN mode in the ON status. | On 00 Fan |
| 7. Setting SEG9, SEG10 option<br>Press Low Fan button(∨) to enter SEG9 value.<br>Press High Fan button(∧) to enter SEG10 value.<br>Each time you press the button, 0 → 1 → ··· E → F will be selected in rotation. | On 0 Fan (SEG9)<br>On 0 Fan (SEG10) |
| 8. Setting Heat mode<br>Mode Press Mode button to be changed to HEAT mode in the ON status. | On 00 Heat |
| 9. Setting SEG11, SEG12 option<br>Press Low Fan button(∨) to enter SEG11 value.<br>Press High Fan button(∧) to enter SEG12 value.<br>Each time you press the button, 0 → 1 → ··· E → F will be selected in rotation. | On 0 Heat (SEG11)<br>On 0 Heat (SEG12) |
| 10. Setting Auto mode<br>Mode Press Mode button to be changed to AUTO mode in the OFF status. | Off 00 Auto |
| 11. Setting SEG14, SEG15 option<br>Press Low Fan button(∨) to enter SEG14 value.<br>Press High Fan button(∧) to enter SEG15 value.<br>Each time you press the button, 0 → 1 → ··· E → F will be selected in rotation. | Off 0 Auto (SEG14)<br>Off 0 Auto (SEG15) |

| Option setting | Status |
|---|---|
| 12. Setting Cool mode<br>Mode Press Mode button to be change to Cool mode in the OFF status. | Off 00 Cool |
| 13. Setting SEG16, SEG17 option<br>Press Low Fan button(∨) to enter SEG16 value.<br>Press High Fan button(∧) to enter SEG17 value.<br>Each time you press the button, 0 → 1 → ··· E → F will be selected in rotation. | Off 0 Cool SEG16<br>Off 0 Cool SEG17 |
| 14. Setting Dry mode<br>Mode Press Mode button to be change to Dry mode in the OFF status. | Off 00 Dry |
| 15. Setting SEG18, SEG20 option<br>Press Low Fan button(∨) to enter SEG18 value.<br>Press High Fan button(∧) to enter SEG20 value.<br>Each time you press the button, 0 → 1 → ··· E → F will be selected in rotation. | Off 0 Dry SEG18<br>Off 0 Dry SEG20 |
| 16. Setting Fan mode<br>Mode Press Mode button to be change to Fan mode in the OFF status. | Off 00 Fan |
| 17. Setting SEG21, SEG22 option<br>Press Low Fan button(∨) to enter SEG21 value.<br>Press High Fan button(∧) to enter SEG22 value.<br>Each time you press the button, 0 → 1 → ··· E → F will be selected in rotation. | Off 0 Fan SEG21<br>Off 0 Fan SEG22 |
| 18. Setting Heat mode<br>Mode Press Mode button to be change to HEAT mode in the OFF status. | Off 00 Heat |
| 19. Setting SEG23, SEG24 mode<br>Press Low Fan button(∨) to enter SEG23 value.<br>Press High Fan button(∧) to enter SEG24 value.<br>Each time you press the button, 0 → 1 → ··· E → F will be selected in rotation. | Off 0 Heat SEG23<br>Off 0 Heat SEG24 |

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

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



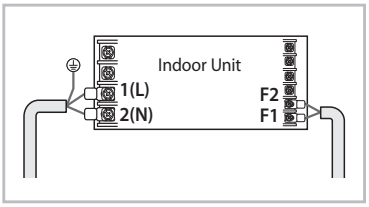

***Step 4. Input option***

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

***Step 5. Check operation***

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

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




1. Check whether power is supplied or not.
   - When the indoor unit is not plugged in, there should be additional power supply in the indoor unit.
2. The panel(display) should be connected to an indoor unit to receive option.
3. Before installing the indoor unit, assign an address to the indoor unit according to the air conditioning system plan.
4. Assign an indoor unit address by wireless remote controller.
   - The initial setting status of indoor unit ADDRESS(MAIN/RMC) is "0A0000-100000-200000-300000".

***Option No. : 0AXXXX-1XXXXX-2XXXXX-3XXXXX***

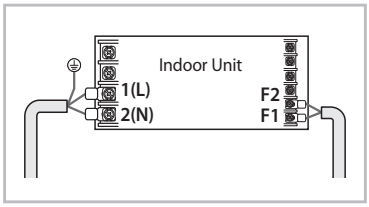
| Option | SEG1 | | SEG2 | | SEG3 | | SEG4 | | SEG5 | | SEG6 | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Explanation | PAGE | | MODE | | Setting Main address | | 100-digit of indoor unit address | | 10-digit of indoor unit | | The unit digit of an indoor unit | |
| Remote Controller Display | | | On A Auto | | On 8 Auto | | On 8 Cool | | On 8 Cool | | On 8 Dry | |
| Indication and Details | Indication | Details | Indication | Details | Indication | Details | Indication | Details | Indication | Details | Indication | Details |
| | 0 | | A | | 0 | No Main address | 0~9 | 100-digit | 0~9 | 10-digit | 0~9 | A unit digit |
| | | | | | 1 | Main address setting mode | | | | | | |

| Option | SEG7 | | SEG8 | SEG9 | | SEG10 | SEG11 | | SEG12 | |
|---|---|---|---|---|---|---|---|---|---|---|
| Explanation | PAGE | | - | Setting RMC address | | - | Group channel(*16) | | Group address | |
| Remote Controller Display | | | | On 8 Fan | | | On 8 Heat | | On 8 Heat | |
| Indication and Details | Indication | Details | | Indication | Details | | Indication | Details | Indication | Details |
| | 1 | | | 0 | No RMC address | | RMC1 | 0~F | RMC2 | 0~F |
| | | | | 1 | RMC address setting mode | | | | | |

CAUTION

- ***When "A"~"F" is entered to SEG5~6, the indoor unit MAIN ADDRESS is not changed.***
- ***If you set the SEG 3 as 0, the indoor unit will maintain the previous MAIN ADDRESS even if you input the option value of SEG5~6.***
- ***If you set the SEG 9 as 0, the indoor unit will maintain previous RMC ADDRESS even if you input the option value of SEG11~12.***
- ***You cannot set SEG11 and SEG12 as F value at the same time.***

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

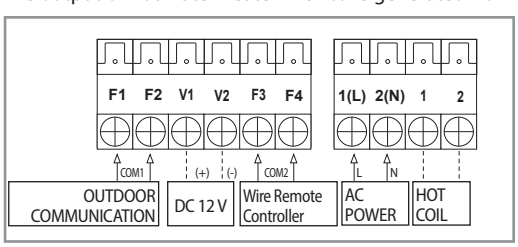



1. Check whether power is supplied or not.
   - When the indoor unit is not plugged in, there should be additional power supply in the indoor unit.
2. The panel(display) should be connected to an indoor unit to receive option.
3. Set the installation option according to the installation condition of an air conditioner.
   - The default setting of an indoor unit installation option is "020010-100000- 200000-300000".
   - Individual control of a remote controller(SEG20) is the function that controls an indoor unit individually when there is more than one indoor unit.
4. Set the indoor unit option by wireless remote controller.

### ■ *02 series installation option*

| SEG1 | SEG2 | SEG3 | SEG4 | SEG5 | SEG6 |
|---|---|---|---|---|---|
| 0 | 2 | - | External room temperature sensor / Minimizing fan operation when thermostat is off | Central control | FAN RPM compensation |
| SEG7 | SEG8 | SEG9 | SEG10 | SEG11 | SEG12 |
| 1 | Drain pump | Hot water heater | - | EEV Step when heating stops | - |
| SEG13 | SEG14 | SEG15 | SEG16 | SEG17 | SEG18 |
| 2 | External control | External control output / External heater On or Off signal | S-Plasma ion | Buzzer | Number of hours using filter |
| SEG19 | SEG20 | SEG21 | SEG22 | SEG23 | SEG24 |
| 3 | Individual control of a remote controller | Heating setting compensation / Removing condensated water in heating mode | EEV Step of stopped unit during oil return/defrost mode | Motion detect sensor | - |

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




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

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

# Setting an indoor unit address and installation option(Continued)

## ■ *02 series installation option(Detailed)*

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

| Option | SEG1 | | SEG2 | | SEG3 | | SEG4 | | | SEG5 | | SEG6 | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Explanation | PAGE | | MODE | | Use of robot cleaning | | Use of external room temperature sensor / Minimizing fan operation when thermostat is off | | | Use of central control | | FAN RPM compensation | |
| Remote Controller Display | | | On 2 Auto | | On 8 Auto | | On 8 Cool | | | On 8 Cool | | On 8 Dry | |
| Indication and Details | Indication | Details | Indication | Details | Indication | Details | Indication | Details: Use of External room temperature sensor | Details: Minimizing fan operation when thermostat is off | Indication | Details | Indication | Details |
| | 0 | | 2 | | 0 | Disuse | 0 | Disuse | Disuse | 0 | Disuse | 0 | Disuse |
| | | | | | 1 | Use | 1 | Use | Disuse | 1 | Use | 1 | RPM compensation |
| | | | | | | | 2 | Disuse | Use (*1) | | | 2 | High ceiling KIT |
| | | | | | | | 3 | Use | Use (*1) | | | | |

| Option | SEG7 | | SEG8 | | SEG9 | | SEG10 | | SEG11 | | SEG12 | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Explanation | PAGE | | Use of drain pump | | Use of hot water heater | | | | EEV Step when heating stops | | | |
| Remote Controller Display | | | On 8 Dry | | On 8 Fan | | | | On 8 Heat | | | |
| Indication and Details | Indication | Details | Indication | Details | Indication | Details | Indication | Details | Indication | Details | Indication | Details |
| | 1 | | 0 | Disuse | 0 | Disuse | | | 0 | Default value | | |
| | | | 1 | Use | 1 | Use (*2) | | | 1 | Noise decreasing setting | | |
| | | | 2 | When an indoor unit stops, drain pump will operate for 3min. | 2 | - | | | | | | |
| | | | | | 3 | Use (*2) | | | | | | |

| Option | SEG13 | | SEG14 | | SEG15 | | | SEG16 | | SEG17 | | SEG18 | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Explanation | PAGE | | Use of external control | | Setting the output of external control/External heater On/Off signal | | | S-Plasma ion | | Buzzer control | | Number of hours using filter | |
| Remote Controller Display | | | Off 8 Auto | | Off 8 Auto | | | Off 8 Cool | | Off 8 Cool | | Off 8 Dry | |
| Indication and Details | Indication | Details | Indication | Details | Indication | Details: Setting the output of external control | Details: External heater On/Off signal | Indication | Details | Indication | Details | Indication | Details |
| | 2 | | 0 | Disuse | 0 | Thermo on | - | 0 | Disuse | 0 | Use buzzer | 2 | 1000 Hour |
| | | | 1 | ON/OFF control | 1 | Operation on | - | 1 | Use | 1 | Disuse buzzer | 6 | 2000 Hour |
| | | | 2 | OFF control | 2 | - | Use (*3) | | | | | | |
| | | | 3 | Window ON/OFF control | 3 | - | Use (*3) | | | | | | |

| Option | SEG19 | | SEG20 | | SEG21 | | | SEG22 | | SEG23 | | SEG24 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Explanation | PAGE | | Individual control of a remote controller | | Heating setting compensation / Removing condensated water in heating mode | | | EEV Step of stopped unit during oil return / defrost mode | | Motion detect sensor | | - |
| Remote Controller Display | | | Off 8 Dry | | Off 8 Heat | | | Off 0 Fan | | Off 0 Heat | | |
| Indication and Details | Indication | Details | Indication | Details | Indication | Details: Heating Setting Compensation | Details: Removing Condensated Water in Heating Mode | Indication | Details | Indication | Details | |
| | 3 | | 0 or 1 | channel 1 | 0 | Default (*4) | Disuse | 0 | Default value | 0 | Disuse | |
| | | | | | 1 | 2 °C | Disuse | | | 1 | Turn out in 30min. without motion | |
| | | | 2 | channel 2 | 2 | 5 °C | Disuse | 1 | Oil return or Noise decreasing in defrost mode | 2 | Turn out in 60min. without motion | |
| | | | 3 | channel 3 | 3 | Default (*4) | Use (*5) | | | 3 | Turn out in 120min. without motion | |
| | | | 4 | channel 4 | 4 | 2 °C | Use (*5) | | | 4 | Turn out in 180min. without motion | |
| | | | | | 5 | 5 °C | Use (*5) | | | 5 | Turn out in 30min. without motion or *advanced function | |
| | | | | | | | | | | 6 | Turn out in 60min. without motion or *advanced function | |
| | | | | | | | | | | 7 | Turn out in 120min. without motion or *advanced function | |
| | | | | | | | | | | 8 | Turn out in 180min. without motion or *advanced function | |

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

(*1) Minimizing fan operation when thermostat is off
- Fan operates for 20 seconds at an interval of 5 minutes in heat mode.

(*2) 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.

(*3) 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.

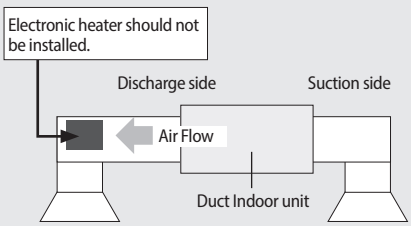
✻ If Fan is set to off for cooling only indoor unit by setting the SEG9=3 or SEG15=3, you need to use an external sensor or wired remote controller sensor to detect indoor temperature exactly.

(*4) Default setting value
- 4Way Cassette, Mini 4Way Cassette: 5 °C
- Other indoor units: 2 °C

(*5) 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 condensated 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 .

CAUTION

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




## ■ *05 series installation option*

| SEG1 | SEG2 | SEG3 | SEG4 | SEG5 | SEG6 |
|---|---|---|---|---|---|
| 0 | 5 | Use of Auto Change Over for HR only in Auto mode | (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 | - | - |
| SEG13 | SEG14 | SEG15 | SEG16 | SEG17 | SEG18 |
| 2 | - | - | - | - | Control variables when using hot water / external heater |
| SEG19 | SEG20 | SEG21 | SEG22 | SEG23 | SEG24 |
| 3 | - | - | - | - | - |

## ■ *05 series installation option(Detailed)*

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

| Option | SEG1 | | SEG2 | | SEG3 | | SEG4 | | SEG5 | | SEG6 | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Explanation | PAGE | | MODE | | Use of Auto Change Over for HR only in Auto mode | | (When setting SEG3) Standard heating temp. Offset | | (When setting SEG3) Standard cooling temp. Offset | | (When setting SEG3) Standard for mode change Heating → Cooling | |
| Remote Controller Display | | | On 5 Auto | | On 8 Auto | | On 8 Cool | | On 8 Cool | | On 8 Dry | |
| Indication and Details | Indication | Details | Indication | Details | Indication | Details | Indication | Details | Indication | Details | Indication | Details |
| | 0 | | 5 | | 0 | Follow product option | 0 | 0 ℃ | 0 | 0 ℃ | 0 | 1 ℃ |
| | | | | | 1 | Use Auto Change Over for HR only | 1 | 0.5 ℃ | 1 | 0.5 ℃ | 1 | 1.5 ℃ |
| | | | | | | | 2 | 1 ℃ | 2 | 1 ℃ | 2 | 2 ℃ |
| | | | | | | | 3 | 1.5 ℃ | 3 | 1.5 ℃ | 3 | 2.5 ℃ |
| | | | | | | | 4 | 2 ℃ | 4 | 2 ℃ | 4 | 3 ℃ |
| | | | | | | | 5 | 2.5 ℃ | 5 | 2.5 ℃ | 5 | 3.5 ℃ |
| | | | | | | | 6 | 3 ℃ | 6 | 3 ℃ | 6 | 4 ℃ |
| | | | | | | | 7 | 3.5 ℃ | 7 | 3.5 ℃ | 7 | 4.5 ℃ |

| Option | SEG7 | | SEG8 | | SEG9 | | SEG10 | | SEG11 | | SEG12 | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Explanation | PAGE | | (When setting SEG3) Standard for mode change Cooling → Heating | | (When setting SEG3) Time required for mode change | | Compensation option for Long pipe or height diffference between indoor units | | | | | |
| Remote Controller Display | | | On 8 Dry | | On 8 Fan | | On 8 Fan | | | | | |
| Indication and Details | Indication | Details | Indication | Details | Indication | Details | Indication | Details | | | | |
| | 1 | | 0 | 1 ℃ | 0 | 5 min. | 0 | Use default value | | | | |
| | | | 1 | 1.5 ℃ | 1 | 7 min. | 1 | 1) Height difference[1] is more than 30m or 2) Distance[2] is longer than 110m | | | | |
| | | | 2 | 2 ℃ | 2 | 9 min. | | | | | | |
| | | | 3 | 2.5 ℃ | 3 | 11 min. | | | | | | |
| | | | 4 | 3 ℃ | 4 | 13 min. | 2 | 1) Height difference[1] is 15~30m or 2) Distance[2] is 50~110m | | | | |
| | | | 5 | 3.5 ℃ | 5 | 15 min. | | | | | | |
| | | | 6 | 4 ℃ | 6 | 20 min. | | | | | | |
| | | | 7 | 4.5 ℃ | 7 | 30 min. | | | | | | |

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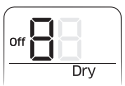
# Setting an indoor unit address and installation option(Continued)

| Option | SEG13 | SEG14 | SEG15 | SEG16 | SEG17 | SEG18 [3] | | |
|---|---|---|---|---|---|---|---|---|
| Explanation | | | | | | Control variables when using hot water / external heater | | |
| Remote Controller Display | | | | | |  | | |
| Indication and Details | | | | | | Indication | Details | |
| | | | | | | | Set temp. for heater On/Off | Delay time for heater On |
| | 2 | | | | | 0 | At the same time as thermo on | No delay |
| | | | | | | 1 | At the same time as thermo on | 10 minutes |
| | | | | | | 2 | At the same time as thermo on | 20 minutes |
| | | | | | | 3 | 1.5 ℃ | No delay |
| | | | | | | 4 | 1.5 ℃ | 10 minutes |
| | | | | | | 5 | 1.5 ℃ | 20 minutes |
| | | | | | | 6 | 3.0 ℃ | No delay |
| | | | | | | 7 | 3.0 ℃ | 10 minutes |
| | | | | | | 8 | 3.0 ℃ | 20 minutes |
| | | | | | | 9 | 4.5 ℃ | No delay |
| | | | | | | A | 4.5 ℃ | 10 minutes |
| | | | | | | B | 4.5 ℃ | 20 minutes |
| | | | | | | C | 6.0 ℃ | No delay |
| | | | | | | D | 6.0 ℃ | 10 minutes |
| | | | | | | E | 6.0 ℃ | 20 minutes |

[1] Height difference : The difference of the height between the corresponding indoor uint 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] Distance : The difference between the pipe length of the indoor unit istalled 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 100m and the corresponding indoor unit is 40 m away from an outdoor unit, select the option "2". (100 - 40 = 60 m)

[3] Heater operation when the SEG9 of 02 series installation option is set to using hot water heater or when SEG15 is set to using external heater

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

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

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

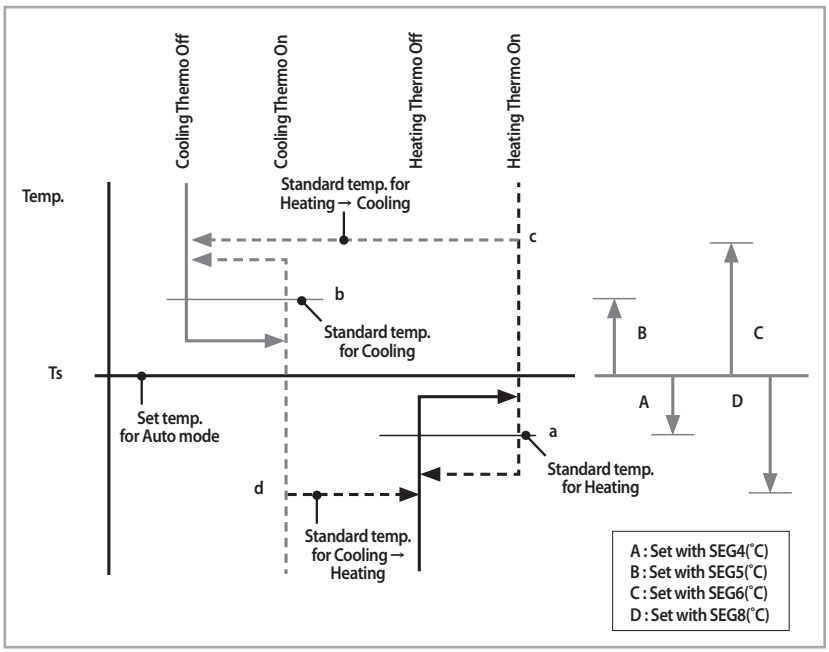
- External heater is turned on when the temperature is maintained as 4.5 ℃ for 10 minutes.

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

- External heater is turned off when the temperature is maintained as 4.5 ℃ + 1 ℃ (1 ℃ is the Hysteresis for On/Off selection.]

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

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




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

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# Setting an indoor unit address and installation option(Continued)

## Changing a particular option

***You can change each digit of set option.***

| Option | SEG1 | | SEG2 | | SEG3 | | SEG4 | | SEG5 | | SEG6 | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Explanation | PAGE | | MODE | | The option mode you want to change | | The tens' digit of an option SEG you will change | | The unit digit of an option SEG you will change | | The changed value | |
| Remote Controller Display | | | On d Auto | | On 8 Auto | | On 8 Cool | | On 8 Cool | | On 8 Dry | |
| Indication and Details | Indication | Details | Indication | Details | Indication | Details | Indication | Details | Indication | Details | Indication | Details |
| | 0 | | D | | Option mode | 1~6 | Tens' digit of SEG | 0~9 | Unit digit of SEG | 0~9 | The changed value | 0~F |

*Note*

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

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

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

## Setting temperature control of discharge air

1. Use of "Temperature control of discharge air" or target temperature of discharge air in cooling/heating can be set with the service mode of a wired remote controller. (Refer to the installation manual of a wired remote controller.)

2. When using temperature control of discharge air, thermo on/off of Indoor unit is decided by set room temperature and room temperature, and the temperature of discharge air is adjusted to meet the target temperature of discharge air in thermostat On section.

3. When using temperature control of discharge air, the temperature of discharge air cannot always be adjusted to the target temperature due to external conditions or protective control of the outdoor unit.

✻ Temperature control of discharge air can be set with DMS as well.

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