

Air conditioner

User & Installation manual

AM*DN6DKG**

- 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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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.

For information on Samsung's environmental commitments and product regulatory obligations, e.g. REACH, visit our sustainability page available via www.samsung.com

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 centre or find help and information online at www.samsung.com.

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.
-  Cut-off the power supply.
-  Do NOT disassemble.

Symbol	Meaning
	Flammable gas
	Flammable materials
	Refrigerant safety group
	Read operating manual
	Refer to operating manual
	Read service manual

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.

Safety Information

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.

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.

This product is equipped with a safety device that operates on electricity.

- To ensure normal operation of the safety device, power must be supplied to the product at all times after installation, except when repairing it.

This product is equipped with a refrigerant leak sensor for the purpose of safety.

- To ensure normal operation of the refrigerant leak sensor, power must be supplied to the product at all times after installation, except when repairing it.

⊘ 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.
- Make sure that it is in accordance with local and national codes.



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. Avoid adding drain to waste pipes as odours may arise in the future.

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.

The product shall be stored in a room with no ignition sources (e.g. open flames, gas appliance, electric heater, etc.).

- Note that the refrigerant has no odor.

Safety Information

FOR POWER SUPPLY



WARNING



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



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.



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 centre.

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

If the appliance generates a strange noise, a burning smell or smoke, cut-off the power supply immediately and contact the nearest service centre.

- 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 centre.

- 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 centre.

⊘ Do not touch the circuit breaker with wet hands.

- This may result in electric shock.

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 touch the front panel with your hands or fingers during the heating operation.

- This may result in electric shock or burns.

Safety Information

Do not insert your fingers or foreign substances into the outlet when the air conditioner is operating or the front panel is closing.

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

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 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 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.



If any foreign substance such as water has entered the appliance, cut-off the power supply and contact the nearest service centre.

- 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.

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.

When the air conditioner does not operate properly for cooling or heating, there is a possibility of refrigerant leakage. If any leakage, stop operation, ventilate the room, and consult your dealer to recharge the refrigerant.

The refrigerant is not harmful. However, if it comes in contact with fire, it may generate harmful gases and there is a risk of fire.

During the transportation of the indoor unit, the pipelines shall be covered with brackets for protection. Do not move the product by holding the refrigerant or drain pipe connections.

- It may cause gas leakage.

Do not install the product on a ship or a vehicle (such as a campervan).

- Salt, vibration or other environmental factors may cause the product to malfunction, electric shock or fire.

 **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.

Safety Information

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.

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.

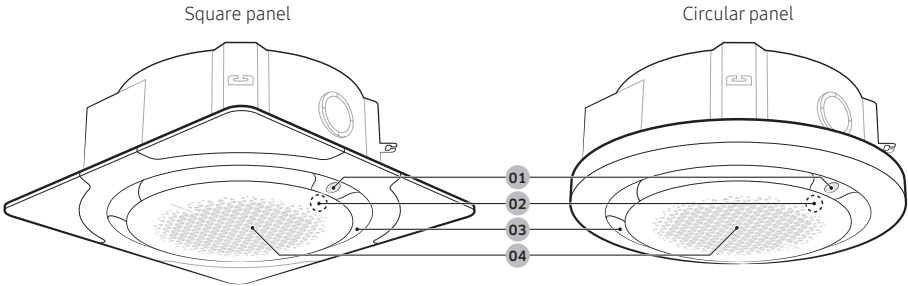
Before cleaning or performing maintenance, cut-off the power supply and wait until the fan stops.

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

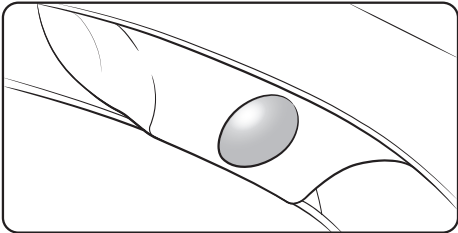
CAUTION

-  **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.
 - This should be done by a qualified technician please contact your installer or service centre.
-  **Do not clean the inside of the air conditioner by yourself.**
- For cleaning inside the appliance, contact your nearest service centre.
 - When cleaning the internal filter, refer to the descriptions in the 'Cleaning and Maintaining' section.
 - Failure to do may result in damage, electric shock or fire.
 - Make sure to prevent any injury from sharp edges of the surface when handling the heat exchanger.

Indoor Unit Overview



01 Display



- 02 Remote control sensor (behind the front grille)
- 03 Air outlet
- 04 Front grille /
Air filter (behind the front grille)

NOTE

- For information on how to operate the product, see the user manual for the remote control.
- The actual appearances of the indoor units and their displays may differ slightly from the images depicted above.

Operation status	Indication on the display
Power on	Ice blue (blinking)
In operation	Ice blue
Stopped	Off
Timed on/off function	Blue
Requires filter cleaning	Yellow green
Defrost function	Ice blue (blinking once every 10 seconds)
Wide	
Mid	
Spot	
Swing	

Operation Features

Operating temperature and humidity

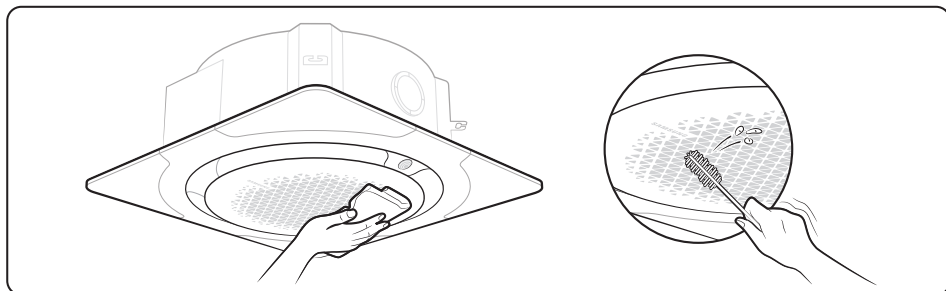
Mode	Outdoor temperature	Indoor temperature	Indoor humidity
Cool mode	Depends on the specifications of the outdoor unit.	18°C to 32°C	80% or less
Heat mode		27°C or less	-
Dry mode		18°C to 32°C	80% or less

 CAUTION

- If you use the air conditioner at a relative humidity above 80%, it may cause a formation of condensation and a leakage of water on the floor.
- If the indoor unit is installed in an IT room (for example, a computer room), a separate backup system must be installed, and the reliability of our product cannot be guaranteed at temperatures outside the operating temperature range.

Cleaning and Maintaining

Cleaning the indoor unit exterior

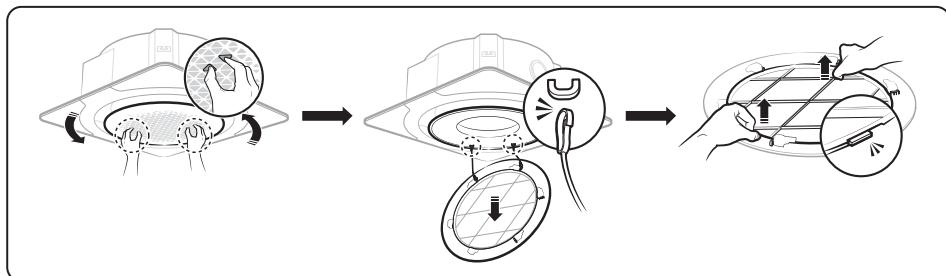


Wipe the surface of the unit with a slightly wet or dry cloth when needed. Wipe off dirt from odd-shaped areas by using a soft brush.

CAUTION

- Do not use alkaline detergent, sulphuric acid, hydrochloric acid, or organic solvents (such as thinner, kerosene, and acetone) to clean the surfaces.
- Do not put any stickers on it as this can damage the surface of the indoor unit.

Disassembling the air filter



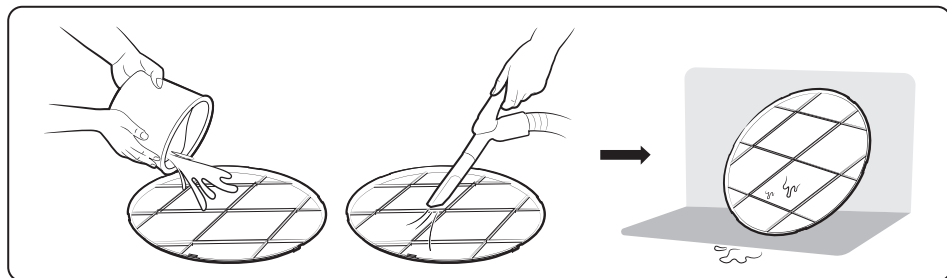
CAUTION

- For cleaning and maintenance, be sure to turn off the circuit breaker.

NOTE

- When the next filter-cleaning time arrives (after 1000 hours of operation), the indoor unit display appears in yellow green.

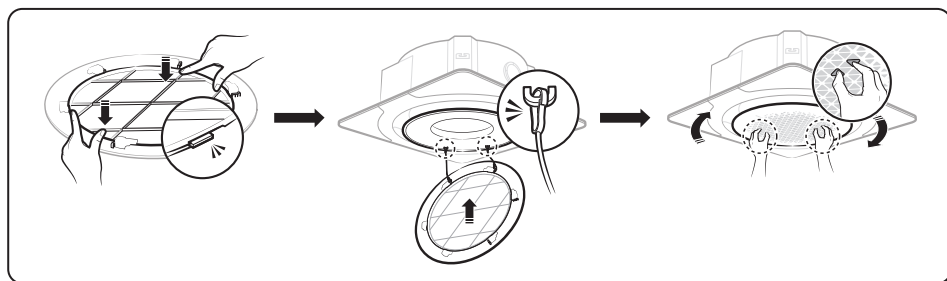
Cleaning the air filter



NOTE

- Clean the air filter once every two weeks.
- Spray water or use a vacuum cleaner to remove dust.
- After removing dust, dry the air filter completely.
 - Avoid direct sunlight. Failure to do so may deform the air filter.

Reassembling the air filter



After cleaning and reassembling the air filter, reset the filter-cleaning reminder as follows:

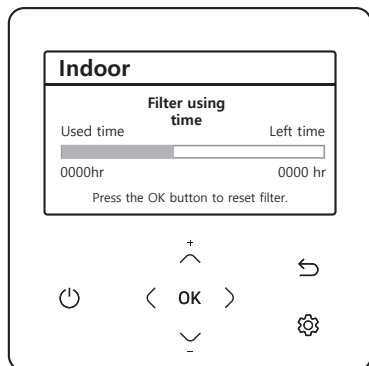
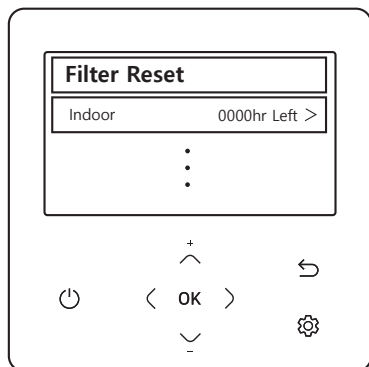
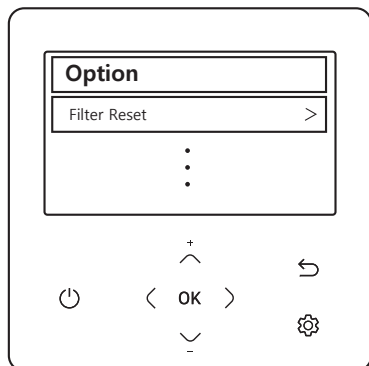
NOTE

- If you try to assemble the air filter upside down, it will not be assembled because it cannot be clamped by the internal structure.

Cleaning and Maintaining

Resetting the filter-cleaning reminder

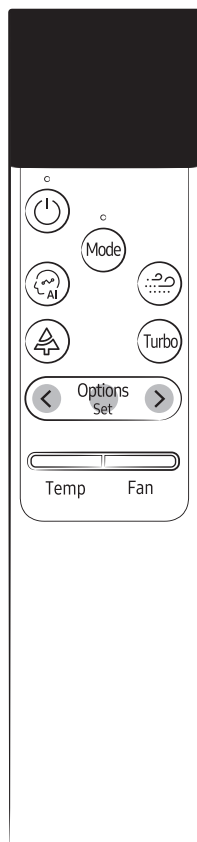
Programmable Wired Controller



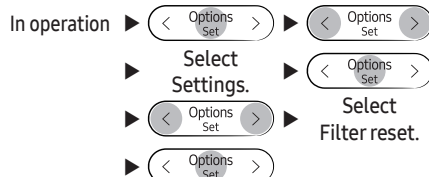
After cleaning and reassembling the air filter, be sure to reset the filter-cleaning reminder as follows :

- Indoor unit with the wired remote control:
 - a Press the  button to display the **Option** menu.
 - b Press the  button to select **Filter Reset** and press the **OK** button.
 - c Press the  button to select **Indoor** and press the **OK** button to display **Filter using time**.
 - d Press the **OK** button to reset the air filter.

Wireless Remote Control



- Indoor unit with the wireless remote control:



CAUTION

- The filter reset indicator blinks when the air filter should be cleaned.
- Although the filter cleaning indicator (Yellow green light) does not light, be sure to set the **"Filter Reset"** after cleaning the air filter.
- If the angle of the airflow blade is changed by opening the front grille for installation or maintenance of the indoor unit, be sure to turn off and then on the auxiliary switch before operating the indoor unit again. If not, the angle of the air flow blade may change and the blades may not be closed after turning off the indoor unit.

Cleaning and Maintaining

Periodical maintenance

Unit	Maintenance item	Interval	Requires qualified technicians
Indoor unit	Clean the air filter.	At least once a month	
	Clean the condensate drain pan.	Once a year	Required
	Clean up the heat exchange.	Once a year	Required
	Clean the condensate drain pipe.	Once every 4 months	Required
	Replace the remote control batteries.	At least once a year	
	R-32 detecting sensor	10 years	Required
Outdoor unit	Clean the heat exchanger on the outside of the unit.	Once every 4 months	Required
	Clean the heat exchanger on the inside of the unit.	Once a year	Required
	Clean the electric components with jets of air.	Once a year	Required
	Verify that all the electric components are firmly tightened.	Once a year	Required
	Clean the fan.	Once a year	Required
	Verify that the fan assemblies are firmly tightened.	Once a year	Required
	Clean the condensate drain pan.	Once a year	Required

 NOTE

- The checks and maintenance operations described above are essential to guarantee the efficiency of the air conditioner. The frequency of these operations may vary depending on the characteristics of the area, the amount of dust, etc.
- 1 The above mentioned operations should be performed more frequently if the area of installation is very dusty.
 - 2 If the period of use of the R-32 detecting sensor exceeds 5 years, "E695" is displayed on the wired remote control. The product works normally. Six months before the expiration of the period of use date, "E695" is displayed on the wired remote control, and the product operates normally.
If the period of use date exceeds 10 years, the wired remote control displays "E700", and the use of the product is restricted.
It must be replaced through Samsung Electronics Service Center before the expiration of the period of use date.
 - 3 These operations must always be performed by qualified personnel. For more detailed information, refer to the Installation Manual.

Troubleshooting

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

Problem	Solution
The product does not work. Error E694	- Connect an R-32-exclusive wired remote control. * MWR-WG01*N * R-32-exclusive wired remote controls should be purchased separately.
An alarm sounds, and the product does not work. Error E696	- This is intended to determine whether there is a leak or not, as R-32 refrigerant is sensed. - The indoor unit determines again whether or not there is a refrigerant leak while operating for 2 minutes using Fan mode (specifically High speed). If there is no refrigerant leak, the indoor unit stops operating, the error is cleared and the product can operate normally. - The R-32 sensor, embedded in the indoor unit, reacts not only to R-32 refrigerant but also to high-concentration chemicals (e.g. organic solvents, hair spray and paint). Do not use any high-concentration chemicals in the vicinity of the indoor unit, as these may cause false operation of the sensor.
An alarm sounds, and the product does not work. Error E697, E797	- The "E697" alarm sounds when the R-32 refrigerant leaks. - To alert customers about the refrigerant leak, the wired remote control displays the screen shown below, and an alarm sounds for 4 minutes. This alarm can be turned off by pressing the OK button on the wired remote control for 3 seconds. - The refrigerant inside the product has been recovered and held in the outdoor unit. Ventilate the room for which the alarm was activated. - When E697 alarm occurs, E797 error is displayed in other indoor unit connected to the corresponding indoor unit and operation is stopped and does not work. - Contact the Samsung Electronics service center for assistance.

Cleaning and Maintaining

Problem	Solution
The product does not work. Error E116, E698, E699, E700	- This error occurs when the R-32 refrigerant sensor has a malfunction or the sensor's life has expired. - Display "E116" or "E698" when a sensor failure occurs - The R-32 sensor's lifespan is 10 years. The wired remote control displays 'E699' 6 months before the sensor's lifespan expires. After the sensor's lifespan expires, the wired remote control displays 'E700', and the product usage is limited. - Contact the Samsung Electronics service center for assistance.
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. The air conditioner will start in 3 minutes.
The air conditioner does not operate at all.	- Check whether the power is turned on, and then operate the air conditioner again. - Check whether the auxiliary power switch (MCCB, ELB) is turned on. - If the auxiliary power switch (MCCB, ELB) is turned off, the air conditioner does not work although you press the  (Power) button. - When you clean the air conditioner, turn off the auxiliary power switch (MCCB, ELB). - After the air conditioner is not used for an extended period of time, be sure to turn on the auxiliary power switch (MCCB, ELB) 6 hours before starting operation.  NOTE - The auxiliary power switch (MCCB, ELB) is sold separately. - Make sure that auxiliary power switch (MCCB, ELB) is installed in the distribution box inside the building. - If the air conditioner is turned off by the Timed off function, turn on the air conditioner again by pressing the  (Power) button.
The temperature does not change.	Check whether the Fan mode is running. In the Fan mode, the air conditioner controls the set temperature automatically, and you cannot change the set temperature.
Warm air does not come out of the air conditioner.	- Check whether the outdoor unit is designed for cooling only. In this case, warm air does not come out although you select the Heat mode. - Check whether the remote control is designed only for cooling only. Use a remote control that supports both cooling and heating.
The fan speed does not change.	Check whether the Auto or Dry mode is running. In these modes, the air conditioner controls the fan speed automatically, and you cannot change the fan speed.

Problem	Solution
The wireless remote control does not operate.	- Check whether the batteries are discharged. Replace the batteries with new ones. - Make sure that nothing is blocking the remote control sensor. - Check whether any strong lighting sources are near the air conditioner. Strong light which comes from fluorescent bulbs or neon signs may interfere with the remote control.
The wired remote control does not operate.	Check whether the  indicator is displayed at the bottom right of the remote control display. In this case, turn off both the air conditioner and the auxiliary power switch, and then contact a service center.
The air conditioner is not turned on or off immediately with the wired remote control.	Check whether the wired remote control is set for group control. In this case, the air conditioners connected to the wired remote control are turned on or off sequentially. This operation takes up to 32 seconds.
The Timed on/off function does not operate.	Check whether you pressed the  (SET) button on the remote control after setting the on/off time. Set the on/off time.
The indoor unit display blinks continuously.	- Turn on the air conditioner again by pressing the  (Power) button. - Turn off and then turn on the auxiliary power switch, and then turn on the conditioner. - If the indoor unit display is still blinking, contact a service center.
I want to get cooler air.	Operate the air conditioner with a electric fan to save energy and enhance the cooling efficiency.
The air is not cool or warm enough.	- In the Cool mode, cool air does not come out if the set temperature is higher than the current temperature. - Remote control: Press the Temperature button repeatedly until the set temperature [minimum: 18°C] is set to lower than the current temperature. - In the Heat mode, warm air does not come out if the set temperature is lower than the current temperature. - Remote control: Press the Temperature button repeatedly until the set temperature [maximum: 30°C] is set to higher than the current temperature. - Both cooling and heating do not operate in the Fan mode. Select the Cool, Heat, Auto, or Dry mode. - Check whether the air filter is blocked with dirt. A dusty filter may decrease the cooling and heating efficiencies. Clean the air filter frequently. - If a cover is on the outdoor unit or any obstacle is present near the outdoor unit, remove them. - Install the outdoor unit in a well-ventilated place. Avoiding places exposed to direct sunlight or close to a heating appliance. - Place a sunscreen over the outdoor unit to protect it from direct sunlight. - If the indoor unit is installed in a place exposed to direct sunlight, pull the curtains on the windows.

Cleaning and Maintaining

Problem	Solution
The air is not cool or warm enough.	- Close the windows and doors to maximize the cooling and heating efficiencies. - If the Cool mode is stopped and then started immediately, cool air comes out after about 3 minutes to protect the compressor of the outdoor unit. - When the Heat mode is started, warm air does not come out immediately to prevent cool air from coming out at the beginning. - If the refrigerant pipe is too long, the cooling and heating efficiencies may be decreased. Avoid exceeding the maximum pipe length.
The air conditioner makes strange noises.	- In certain conditions (especially, when the outdoor temperature is lower than 20°C), a hissing, rumbling, or splashing sound may be heard while the refrigerant is circulating through the air conditioner. This is a normal operation. - When you press the  (Power) button on the remote control, noise may be heard from the drain pump inside the air conditioner. This noise is a normal sound.
Unpleasant odours permeate the room.	- If the air conditioner is running in a smoky area or if there is a smell entering from outside, ventilate the room properly. - If both indoor temperature and indoor humidity are high, operate the air conditioner in the Clean or Fan mode for 1 to 2 hours. - If the air conditioner has not been operated for an extended period of time, clean the indoor unit and then operate the air conditioner in the Fan mode for 3 to 4 hours to dry the inside of the indoor unit for removal of unpleasant odours. - If the air filter blocked with dirt, clean the air filter.
Steam is produced on the indoor unit.	In winter, if the indoor humidity is high, steam may be produced around the air outlet while the defrost function is running. This is a normal operation.
The outdoor unit fan continues to operate when the air conditioner is turned off.	When the air conditioner is turned off, the outdoor unit fan may continue to operate to reduce noise of the refrigerant gas. This is a normal operation.
Water drops from the piping connections of the outdoor unit.	Condensation may develop due to the difference in temperature. This is a normal condition.
Steam is produced on the outdoor unit.	In winter, when the air conditioner runs in the Heat mode, the frost on the heat exchanger melts and steam may be produced. This is a normal operation, neither product malfunction nor a fire.

Technical specifications

Unit	Model	Net weight (kg)	Net dimension (W x D x H) (mm)
AM***DN6DKG*	**045**	21.0	947*281*947
	056	21.0	947*281*947
	071	21.0	947*281*947
	090	20.0	947*281*947
	112	24.0	947*365*947
	128	24.0	947*365*947
	140	24.0	947*365*947

Information about Refrigerant

Important information: regulation regarding the refrigerant used

This product contains fluorinated greenhouse gases. Do not vent gases into the atmosphere.

CAUTION

- If the system contains 5 tCO₂e or more of fluorinated greenhouse gases, it must be checked for leakage at least once every 12 months, according to regulation No. 517/2014. This activity must be covered by qualified personnel only. In the case of the situation above, the installer (or authorized person with responsibility for final check) must provide a maintenance book, with all the information recorded, according to REGULATION (EU) No. 517/2014 OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL of 16 April 2014 on fluorinated greenhouse gases.

Refrigerant type	GWP value
R-32	675

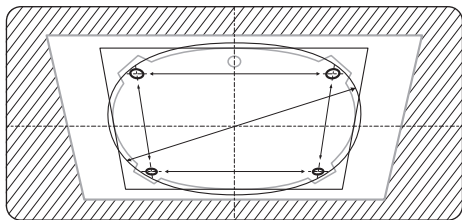
- GWP: Global Warming Potential
- Calculating tCO₂e: kg x GWP/1000

Installation Procedure

Step 1 Installing the indoor unit

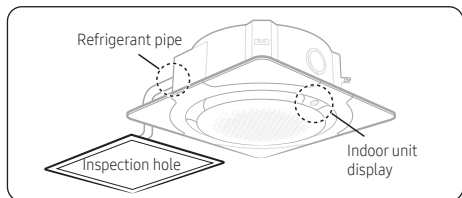
When deciding on the location of the air conditioner the following restrictions must be taken into account.

- 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.

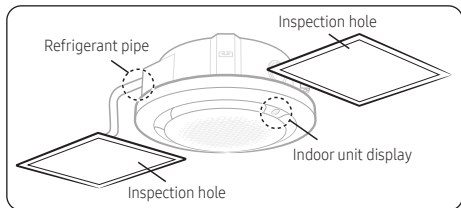


NOTE

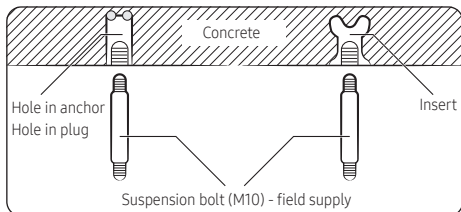
- Since the diagram is made of paper, it may shrink or stretch slightly due to temperature or humidity. For this reason, before drilling the holes, be sure to maintain the correct dimensions between the markings.
- 2 Perform the following steps to install inspection holes in accordance with the panel 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)



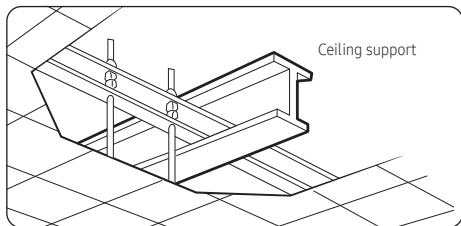
- b For recessed installation of the circular panel
 - Install inspection holes to both directions of the connection part of the refrigerant pipe and the drain hose and of the indoor unit display. (2 points)



- 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.



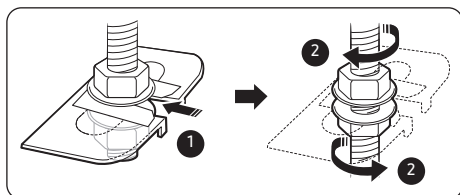
CAUTION

- 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, you are required to prevent vibration.

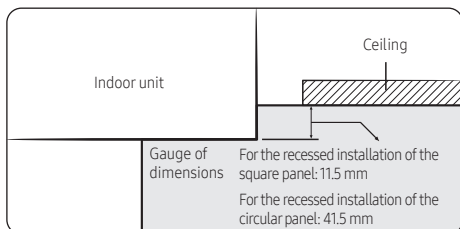
- 5 Screw eight nuts and washers to the suspension bolts, making space for hanging the indoor unit.

⚠ 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.

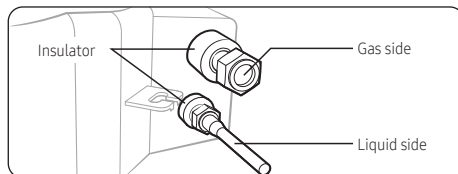


Step 2 Performing the gas leak test

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

Before recreating the vacuum and recirculating the refrigerant gas, pressurize the whole system with nitrogen (using a cylinder with a pressure reducer) at a pressure above 4 MPa in order to immediately detect leaks on the refrigerant fittings.

Made vacuum for 15 minutes and pressurizing system with nitrogen.

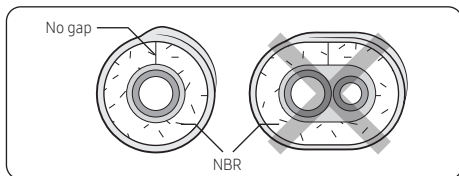


Installation Procedure

Step 3 Insulating the refrigerant pipes

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

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



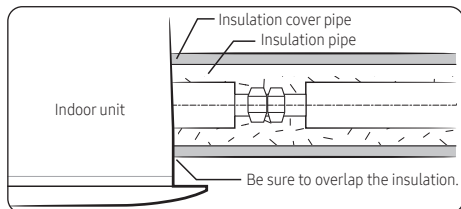
NOTE

- Always make the seam of pipes face upwards.

CAUTION

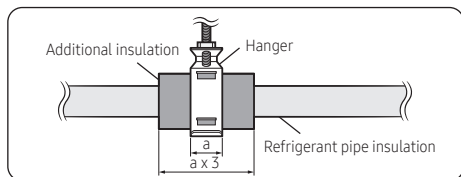
- The insulation has to be produced in full compliance with European regulation EEC / EU 2037 / 2000 requiring the use of sheaths insulation without using CFC and HCFC gases for health and the environment.
- 2 Wind insulating tape around the pipes and drain hose avoiding compressing the insulation too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

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

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

<Geological condition>

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

<Operation purpose condition>

Restaurant ceiling, sauna, swimming pool etc.

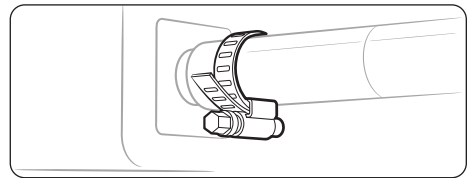
<Building construction condition>

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

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

Step 4 Installing the drain hose and drain pipe

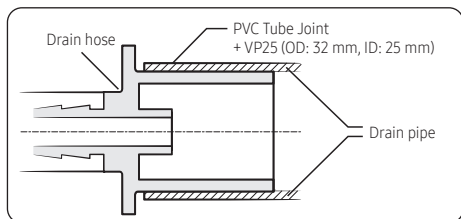
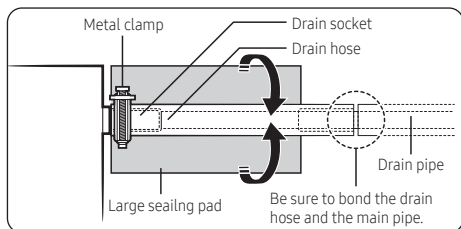
- 1 Push the supplied drain hose as far as possible over the drain socket.
- 2 Tighten the metal clamp as shown in the picture.



- 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).

Installation Procedure

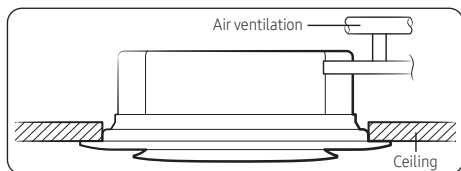
- Push the drain hose up to insulation when connecting the drain hose to drain socket.



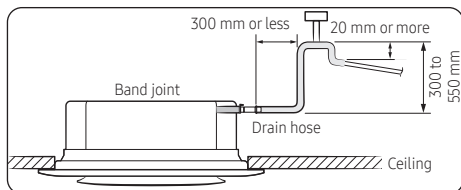
⚠ CAUTION

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

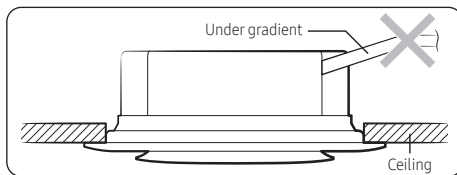
- Install air ventilation to drain condensation smoothly.



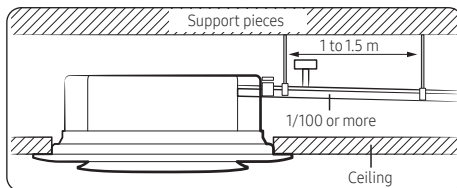
- If it is necessary to increase the height of the drain pipe, install the drain pipe straight within 300 mm from the drain hose port. If it is raised higher than 550 mm, there may be water leaks.



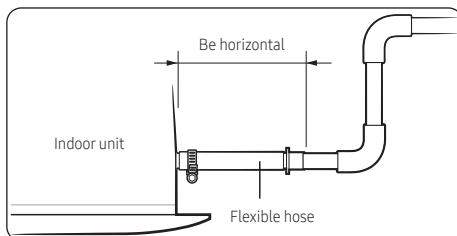
- Do not give the hose an upward gradient beyond the connection port. This will cause water to flow backwards when the unit is stopped, resulting in water leaks.



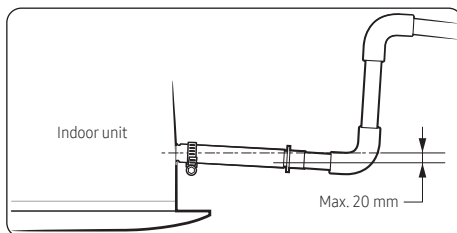
- Do not apply force to the piping on the unit side when connecting the drain hose. The hose should not be allowed to hang loose from its connection to the unit. Fasten the hose to a wall, frame or other support as close to the unit as possible.



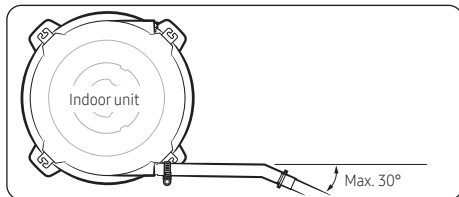
- Install horizontally.



- Max. allowable axis gap

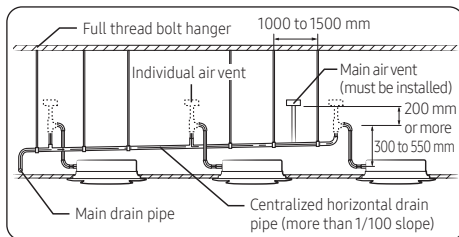


- Max. allowable bending angle



NOTE

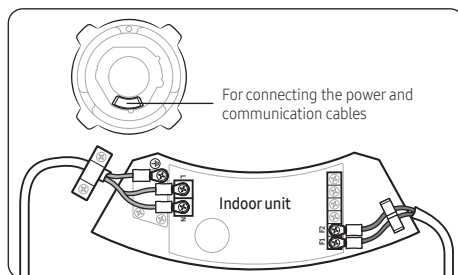
- If a concentrated drain pipe is installed, refer to the figure below.



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

Step 5 Connecting the power and communication cables

Power and communication cable connection



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

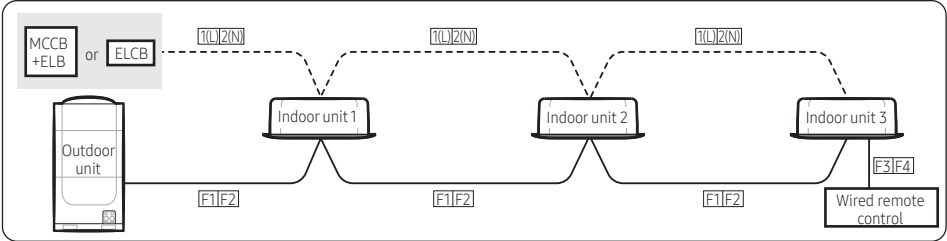
Tightening torque (N•m)	
M3.5	0.8 to 1.2
M4	1.2 to 1.8

(1 N•m=10kgf•cm)

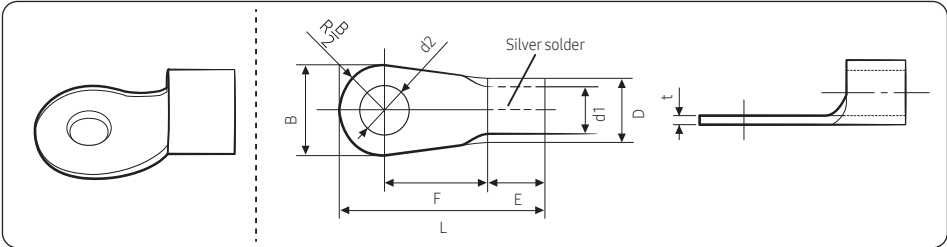
- To protect the product from water and possible shock, you should keep the power and the communication cables of the indoor and outdoor units in the iron pipe.

Installation Procedure

- 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.

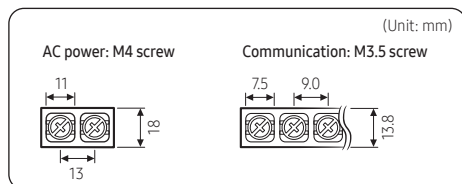


Selecting the crimping terminal lug



Normal dimensions for cable (mm ²)	Normal 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

Specifications of the terminal blocks



Power supply (single phase)	MCCB	ELB
Min : 198V Max : 242V	XA	XA, 30 mA 0.1 s
Power cable	Earth cable	Communication cable
2.5 mm or more	2.5 mm ²	0.75 to 1.5 mm ²

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

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

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

NOTE

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

Rated currents

Unit	Model	Rating current (A)
AM***DN6DKG*	**045**	0.18
	056	0.21
	071	0.25
	090	0.42
	112	0.41
	128	0.62
	140	0.75

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

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

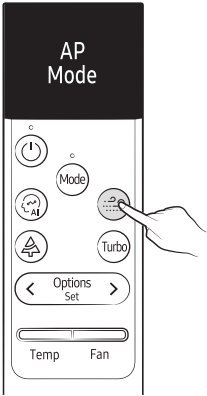
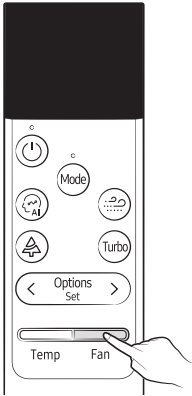
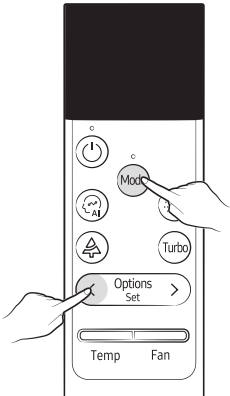
NOTE

- Coef: 1.55
- L_k : Distance among each indoor unit[m],
- A_k : Power cable specification[mm²]
- i_k : Running current of each unit[A]

Installation Procedure

Step 6 Optional: LED Display indicator specifications when checking Wi-Fi Easy Setup and Wi-Fi status

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

Easy Setup	Check internet connection status	Enable/Disable Wi-Fi
		
Press the  button for 5 seconds	Press the  button for 5 seconds	Press the  and  button for 5 seconds

LED Indicator Status

360 Cassette		LED Display							Remarks	Measure
		LED color of indicator lights				LED indicator for wind direction				
		Ice blue	blue	Yellow green	Red	Wide	Mid	Spot		
										
Easy Setup	AP entry	●	X	X	X	●	●	●	All LED lights are on	-
	Check device	◐	X	X	X	◐	◐	◐	All LED lights flash	-
	Registering devices	X	X	X	X	X	◐	X	Rotating	-
	Connected	◐	X	X	X	◐	◐	◐	All LED lights flash for 3 seconds	-
	Connection failed	X	X	X	●	X	X	X	Red LED indicator lights turn on, all LED lights for wind direction turns off	Retry AP settings, change Wi-Fi module
Check internet connection status	If AP/internet is connected successfully	●	X	X	X	●	●	●	All LED lights turn on for 5 seconds	Normal operation
	If no AP connection	X	X	X	X	X	X	X	All LED turns off for 5 seconds	AP settings, change Wi-Fi module
Wi-Fi	Enable	◐	X	X	X	◐	◐	◐	All LED lights flash once	-
	Disable		X	X	X					-
If AP is set up using the wired remote controller		◐	X	X	X	◐	◐	◐	All LED lights flash simultaneously (max. 10 mins)	-

Installation Procedure

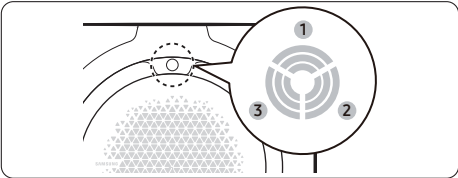
Spot	LED Display									Remarks
	Airflow direction indication									
	Wide			Mid			Spot			
										
	Airflow direction			Airflow direction			Airflow direction			
	1	2	3	1	2	3	1	2	3	
Connection info reset	●			●			●			Sequential light-up ¹⁾
All devices reset	●			●			●			Sequential light-up ²⁾

¹⁾ Spot → (Spot + Mid) → (Spot + Mid + Wide) → Spot → ...

²⁾ Wide → (Wide + Mid) → (Wide + Mid + Spot) → Wide → ...

 NOTE

- LED indication status of airflow direction

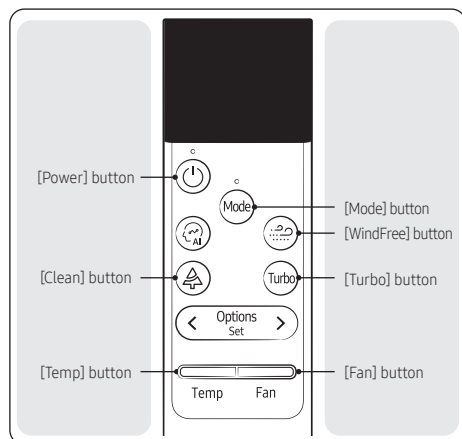


Step 7 Setting the indoor unit addresses and the installation options

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

Common steps for setting the addresses and options

Remote controls



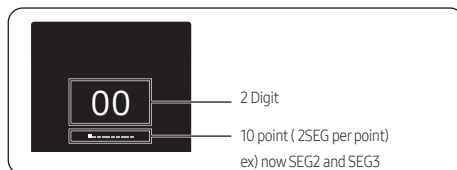
NOTE

- The remote control display and buttons may vary depending on the model.

1 Enter the mode for setting the options.

- Reset remote control: button Down + button Down + Press for 10 seconds
- You can see the "SW Initialization" message and enter the following in 5 seconds.
- Press button and button for 5 seconds.

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



2 Set the option values.

CAUTION

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

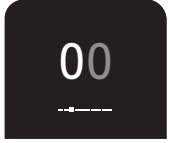
SEG1	SEG2	SEG3	SEG4	SEG5	SEG6
0	X	X	X	X	X
SEG7	SEG8	SEG9	SEG10	SEG11	SEG12
1	X	X	X	X	X
SEG13	SEG14	SEG15	SEG16	SEG17	SEG18
2	X	X	X	X	X
SEG19	SEG20	SEG21	SEG22	SEG23	SEG24
3	X	X	X	X	X

- You can set the next SEG by pressing the button.
- You can change the digit value through the following operation.
Left value: up or down, range : 0 ~ F
Right value: up or down, range : 0 ~ F

Installation Procedure

Take the steps presented in the following table:

Steps	Remote control display
1 Set the SEG2 and SEG3 values: a Set the SEG2 value by pressing the  button repeatedly until the value you want to set appears on the remote control display. b Set the SEG3 value by pressing the  button repeatedly until the value you want to set appears on the remote control display. When you press the  or  button, values appear in the following order: 0 → 1 → ... E → F	 SEG2  SEG3
2 Press the  button to move to the next page.	
3 Set the SEG4 and SEG5 values: a Set the SEG4 value by pressing the  button repeatedly until the value you want to set appears on the remote control display. b Set the SEG5 value by pressing the  button repeatedly until the value you want to set appears on the remote control display. When you press the  or  button, values appear in the following order: 0 → 1 → ... E → F	 SEG4  SEG5
4 Press the  button to move to the next page.	

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

Installation Procedure

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

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

Installation Procedure

Steps	Remote control display
17 Set the SEG21 and SEG22 values: a Set the SEG21 value by pressing the  button repeatedly until the value you want to set appears on the remote control display. b Set the SEG22 value by pressing the  button repeatedly until the value you want to set appears on the remote control display. When you press the  or  button, values appear in the following order: 0 → 1 → ... E → F	 SEG21  SEG22
18 Press the  button to move to the next page.	
19 Set the SEG23 and SEG24 values: a Set the SEG23 value by pressing the  button repeatedly until the value you want to set appears on the remote control display. b Set the SEG24 value by pressing the  button repeatedly until the value you want to set appears on the remote control display. When you press the  or  button, values appear in the following order: 0 → 1 → ... E → F	 SEG23  SEG24

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

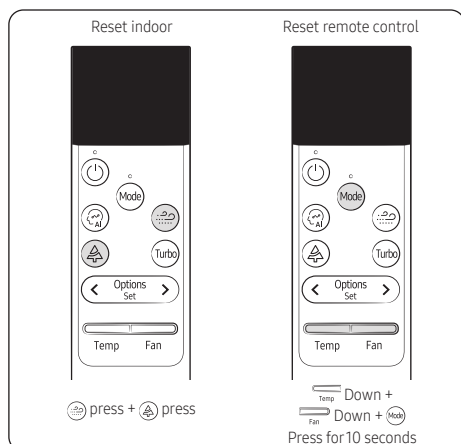


EX) AM***FE4DCG

020010-100000-2000C0-300000

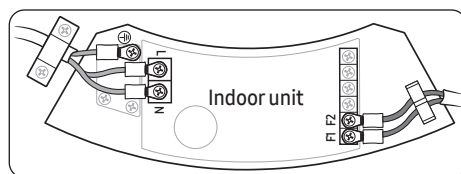
- 4 Save the option values into the indoor unit:
Point the remote control to the remote control sensor on the indoor unit and then press the **Power** button on the remote control twice.
Make sure that this command is received by the indoor unit. When it is successfully received, you can hear a short sound from the indoor unit. If the command is not received, press the **Power** button again.

- 5 Check whether the air conditioner operates following the option values you have set:
- Reset the indoor or outdoor unit.
 - Indoor Unit : Press **Temp** button + **Mode** button for 5 seconds
 - Outdoor Unit : Press the K3 button
 - Reset remote control: **Temp** button Down + **Fan** button Down + **Mode** Press for 10 seconds
You can see the "SW Initialization" message.



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.
- Make sure that the panel or display is connected to the indoor unit so that it can receive options.



- 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

Installation Procedure

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

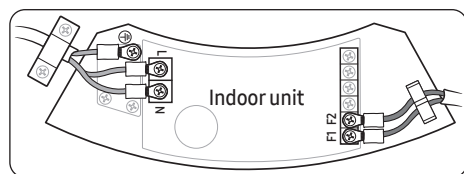
Option	SEG1		SEG2		SEG3		SEG4		SEG5		SEG6	
Function	Page		Mode		Setting main address		100-digit of an indoor unit address		10-digit of an indoor unit address		The single digit of an indoor unit	
Indication and details	Indication	Details	Indication	Details	Indication	Details	Indication	Details	Indication	Details	Indication	Details
	0		A		0	No main address	0 to 9	10-digit	0 to 9	A single digit	0 to 3	A single digit
					1	Main address setting mode						
Option	SEG7		SEG8		SEG9		SEG10		SEG11		SEG12	
Function	Page		-		Setting RMC address		-		Group channel (x16)		Group address	
Indication and details	Indication	Details	-		Indication	Details	-		Indication	Details	Indication	Details
	1				0	No RMC address			RMC1	0 to F	RMC2	0 to F
					1	RMC address setting mode						

⚠ 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)

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



- 3 Set an address for each indoor unit using the remote control, according to your air conditioning system plan.
 - The indoor unit addresses are set to 020010-100000-2000A0-300000 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

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

Installation Procedure

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

Option	SEG1		SEG2		SEG3	SEG4			SEG5		SEG6	
Function	Page		Mode		-	Use of external temperature sensor / Minimizing fan operation when thermostat is off			Use of central control		Compensation of the fan RPM	
Indication and details	Indication	Details	Indication	Details	-	Indication	Details		Indication	Details	Indication	Details
							Use of external temperature sensor	Minimizing fan operation when thermostat is off				
	0		2			0	Disuse	(Cooling, Heating) Disuse	0	Disuse	0	Disuse (recessed installation)
						1	Use	(Cooling, Heating) Disuse				
						2	Disuse	(Heating) Use (*1)	1	Use	1	High-ceiling mode (recessed installation)
						3	Use	(Heating) Use (*1)				
						4	Disuse	(Cooling) Use			4	Disuse (exposed installation)
						5	Use	(Cooling) Use				
						6	Disuse	(Cooling, Heating) Use (*1)			5	High-ceiling mode (exposed installation)
						7	Use	(Cooling, Heating) Use (*1)				

Option	SEG7		SEG8		SEG9		SEG10			SEG11		SEG12
Function	Page		Use of drain pump		Use of hot water heater		Settings for load operation during heater control Fan control during defrost mode / Heater control during defrost mode			EEV step when heating stops		-
Indication and detail	Indication	Details	Indication	Details	Indication	Details	Indication	Detail		Indication	Details	-
	1		0	Disuse	0	Disuse	0	Fan Off	Off	0	Default	
							1	Fan turns on when heater turns on	Off			
							2	Fan Off	Off			
							3	Fan turns on when heater turns on	Off			
			1	Use	1	Use (*2)	4	Fan Off	On	1	Noise decreasing setting	
							5	Fan turns on when heater turns on	On			
							6	Fan Off	On			
							7	Fan turns on when heater turns on	On			
			2	Use with 3 minute delay	2	-	8	Fan Off	Off			
							9	Fan turns on when heater turns on	Off			
							A	Fan Off	Off			
							B	Fan turns on when heater turns on	Off			
					3	Use (*2)	C	Fan Off	On			
							D	Fan turns on when heater turns on	On			
							E	Fan Off	On			
							F	Fan turns on when heater turns on	On			

Installation Procedure

Option	SEG13		SEG14		SEG15			SEG16		SEG17					SEG18	
Function	Page		Use of external control		Setting the output of external control / External heater On or Off signal			S-Plasma ion		Buzzer control / whether to use humidity sensor / whether to use APP UX DSP (Dual Set Point) / whether to use R-32 sensor					Maximum filter usage time	
Indication and details	Indication	Details	Indication	Details	Indication	Details		Indication	Details	Indication	Detail				Indication	Details
						Setting the output of external control	External heater On or Off signal				Buzzer Control	Humidity sensor	APP UX DSP	R-32 sensor		
	2		0	Disuse	0	Thermo On	-	0	Disuse	0	Use Buzzer	Disuse	Disuse	2	1000 hours	
										1	Disuse Buzzer	Disuse	Disuse			Disuse
										2	Use Buzzer	Use	Disuse			Disuse
										3	Disuse Buzzer	Use	Disuse			Disuse
										4	Use Buzzer	Disuse	Use			Disuse
										5	Disuse Buzzer	Disuse	Use			Disuse
										6	Use Buzzer	Use	Use			Disuse
										7	Disuse Buzzer	Use	Use			Disuse
	2		1	ON or OFF control	1	Operation On	-	1	Use	8	Use Buzzer	Disuse	Disuse	Use	6	2000 hours
										9	Disuse Buzzer	Disuse	Disuse	Use		
										A	Use Buzzer	Use	Disuse	Use		
										B	Disuse Buzzer	Use	Disuse	Use		
										C	Use Buzzer	Disuse	Use	Use		
										D	Disuse Buzzer	Disuse	Use	Use		
										E	Use Buzzer	Use	Use	Use		
										F	Disuse Buzzer	Use	Use	Use		

Option	SEG19		SEG20		SEG21			SEG22	
Function	Page		Individual control with remote control		Heating setting compensation offset / Removing condensated water in the Heat mode			EEV step of stopped unit during the oil return or the defrost mode	
Indication and details	Indication	Details	Indication	Details	Indication	Details		Indication	Details
	3		0 or1	Indoor1	0	Heating setting compensation offset	Removing condensated water in the Heat mode		
				1	2 °C	Disuse			
			2	Indoor2	2	5 °C	Disuse		
			3	Indoor3	3	Default (*4)	Use (*5)		
			4	Indoor4	4	2 °C	Use (*5)		
					5	5 °C	Use (*5)		
	Option	SEG23					SEG24		
Function	Motion detection sensor					Cycle time of Swing			
	Setting the MDS Kit installation option					Indication	Details		
	Indication		Details			0	34 seconds (default)		
	0		Disuse (Soft Off+Hard off) (*6)						
	Standard	1	Off after 20 min. (Soft Off+Hard off)				1	30 seconds	
		2	Off after 40 min. (Soft Off+Hard off)						
		3	Off after 80 min. (Soft Off+Hard off)						
	Premium	4	Off after 20 min. (Soft Off+Hard off)						
		5	Off after 40 min. (Soft Off+Hard off)						
		6	Off after 80 min. (Soft Off+Hard off)						
	Standard	7	Off after 20 min. (Soft Off only)			2	38 seconds		
		8	Off after 40 min. (Soft Off only)						
		9	Off after 80 min. (Soft Off only)						
	Premium	A	Off after 20 min. (Soft Off only)						
B		Off after 40 min. (Soft Off only)							
C		Off after 80 min. (Soft Off only)							

Installation Procedure

- (*1) Minimizing fan operation when thermostat is off: The fan operates for 20 seconds at an interval of 5 minutes in the Heat mode.
- (*2) 1: The fan is turned on continually when the hot water heater is turned on, 3: The 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 to the Cool mode.)
- (*3) When the following 2 or 3 is used as external heater On or Off signal, the signal for monitoring external contact control will not be output.
2: The fan is turned on continually when the external heater is turned on,
3: The 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 to the Cool mode.)

NOTE

- If the 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 control sensor to detect indoor temperature exactly.
- (*4) Default setting value: 5 °C
- (*5) If the air conditioner operates in the Heat mode immediately after finishing the cooling operation, the condensated water in the drain pan becomes water steam by the heat of the indoor unit heat exchanger. Since the water steam might be condensed on the indoor unit, which may fall into a living space, use this function to remove the water steam out of the indoor unit by operating the fan (for maximum 20 minutes) although the indoor unit is turned off after the Cool mode is turned to the Heat mode.
- (*6) **SOFT OFF:** The indoor unit turns off its operation at the indicated time in the table for Installation Option after its final motion detection. But, it turns on again if the MDS detects motion.
HARD OFF: Designated time after SOFT OFF, it cannot turn on automatically when it detects motion. Users should control to turn on the indoor unit with remote control, etc.

Installation options for the 05 series

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

Option	SEG1		SEG2		SEG3		SEG4		SEG5		SEG6	
Function	Page		Mode		Use of the HR-specific auto changeover function in the Auto mode		(When setting SEG3) Offset for the heating reference temperature		(When setting SEG3) Offset for the cooling reference temperature		(When setting SEG3) Reference for change from Heat mode to Cool mode	
Indication and details	Indication	Details	Indication	Details	Indication	Details	Indication	Details	Indication	Details	Indication	Details
	0	5	0	The product options are followed.	0	0	0	0	0	0	0	1
			1	The HR-specific auto changeover function is used.	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	
Function	Page		(When setting SEG3) Reference for change from Cool mode to Heat mode		(When setting SEG3) Time required for mode change		Compensation option for a long pipe and the height difference between indoor units		-		-	
Indication and details	Indication	Details	Indication	Details	Indication	Details	Indication	Details	-	-	-	-
	1	0	1	0	5 min.	0	The default value is used.					
		1	1.5	1	7 min.	1	1) The height difference (*1) is more than 30 m. - or - 2) The distance (*2) is longer than 110 m.					
		2	2	2	9 min.							
		3	2.5	3	11 min.							
		4	3	4	13 min.	2	1) The height difference (*1) is 15 to 30 m. - or - 2) The distance(*2) is 50 to 110 m.					
		5	3.5	5	15 min.							
		6	4	6	20 min.							
		7	4.5	7	30 min.							

Installation Procedure

Option	SEG13	SEG14	SEG15		SEG16		SEG17
Function	-	-	Dual fuel (heater lock) setting		Dual fuel (HP lock) setting		-
Indication and details	-	-	Indication	Detail	Indication	Detail	-
			0	Disuse	0	Disuse	
			1	18.3 °C	1	7.2 °C	
			2	15.6 °C	2	4.4 °C	
			3	12.8 °C	3	1.7 °C	
			4	10 °C	4	-1.1 °C	
			5	7.2 °C	5	-3.9 °C	
			6	4.4 °C	6	-6.7 °C	
			7	1.7 °C	7	-9.4 °C	
			8	-1.1 °C	8	-12.2 °C	
			9	-3.9 °C	9	-15 °C	
			A	-6.7 °C	A	-17.8 °C	
			B	-9.4 °C	B	-20.6 °C	
			C	-12.2 °C	C	-23 °C	
			D	-15 °C	D	-26 °C	
			E	-17.8 °C	E	-29 °C	
F	Cannot be used	F	Cannot be used				
Option	SEG18 (*3)						
Function	Control variables when the hot water heater or an external heater is used						
Indication and details	Indication	Details					
		Offset temperature for heater on			Delay time for heater on		
	0	At the same time with thermo on			No delay		
	1	At the same time with thermo on			10 min.		
	2	At the same time with thermo on			20 min.		
	3	1.5°C			No delay		
	4	1.5°C			10 min.		
	5	1.5°C			20 min.		
	6	3.0°C			No delay		
	7	3.0°C			10 min.		
	8	3.0°C			20 min.		
	9	4.5°C			No delay		
	A	4.5°C			10 min.		
	B	4.5°C			20 min.		
	C	6.0°C			No delay		
	D	6.0°C			10 min.		
E	6.0°C			20 min.			

Option	SEG19	SEG20	SEG21	SEG22	SEG23	SEG24			
Function	-	-	-	-	-	Whether to use UV LED / whether to use BLE Onboarding / whether to allow fan speed control during auto mode / MDS (motion detection sensor) control UX type			
Indication and details	-	-	-	-	-	Indication	Detail		
							UV LED	BLE Onboarding	MDS (motion detection sensor) control UX type
						0	Disuse	Disuse	Fan speed and power saving mode can be set simultaneously
						1	Use	Disuse	Fan speed and power saving mode can be set simultaneously
						2	Disuse	Use	Fan speed and power saving mode can be set simultaneously
						3	Use	Use	Fan speed and power saving mode can be set simultaneously
						4	Disuse	Disuse	Fan speed and power saving mode can be set simultaneously
						5	Use	Disuse	Fan speed and power saving mode can be set simultaneously
						6	Disuse	Use	Fan speed and power saving mode can be set simultaneously
						7	Use	Use	Fan speed and power saving mode can be set simultaneously
						8	Disuse	Disuse	Only fan speed or power saving mode can be set at a time
						9	Use	Disuse	Only fan speed or power saving mode can be set at a time

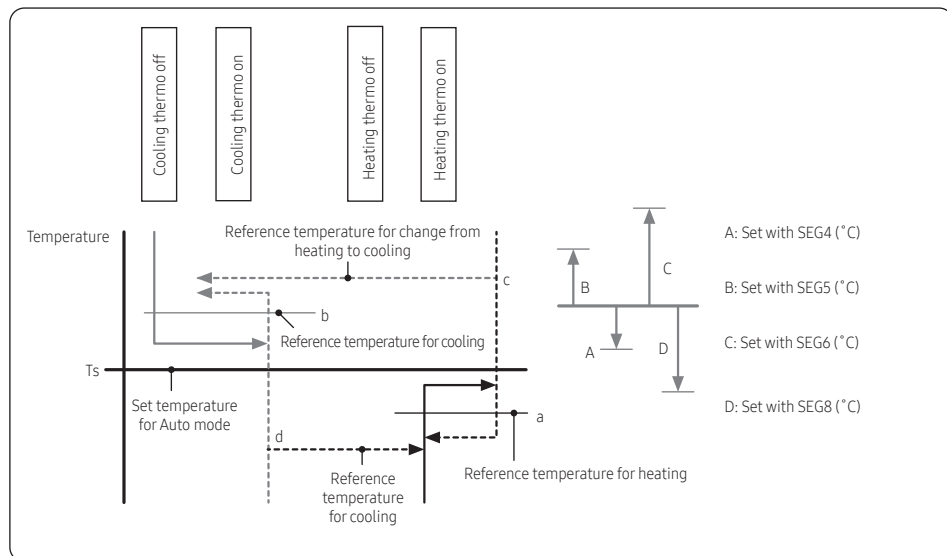
Installation Procedure

Option	SEG19	SEG20	SEG21	SEG22	SEG23	SEG24				
Function	-	-	-	-	-	Whether to use UV LED / whether to use BLE Onboarding / whether to allow fan speed control during auto mode / MDS (motion detection sensor) control UX type				
Indication and details	-	-	-	-	-	A	Disuse	Use	Disuse	Only fan speed or power saving mode can be set at a time
						B	Use	Use	Disuse	Only fan speed or power saving mode can be set at a time
						C	Disuse	Disuse	Use	Only fan speed or power saving mode can be set at a time
						D	Use	Disuse	Use	Only fan speed or power saving mode can be set at a time
						E	Disuse	Use	Use	Only fan speed or power saving mode can be set at a time
						F	Use	Use	Use	Only fan speed or power saving mode can be set at a time

- (*1) Height difference: The difference of the height between the target indoor unit and the indoor unit installed at the lowest place. For example, When the target indoor unit is installed 40 m higher than the indoor unit installed at the lowest place, set the option to 1.
- (*2) Distance: The difference between the pipe length of the target indoor unit from the outdoor unit and the pipe length of the indoor unit installed at the farthest place from the outdoor unit. For example, when the longest pipe length is 100 m and the pipe length of the target indoor unit is 40 m, set the option to 2. (100 – 40 = 60 m)
- (*3) The heater operation when SEG9 of the 02 series functional options is set to 'the hot water heater is used' or when SEG15 is set to 'an external heater is used.'
 Example 1: When SEG9 of the 02 series functional options is set to 1 or when SEG18 of the 05 series functional options is set to 0:
 The hot water heater is immediately turned on when the heating thermostat is turned on and is immediately turned off when the heating thermostat is turned off.
 Example 2: When SEG15 of the 02 series functional options is set to 2 or when SEG18 of the 05 series functional options is set to A:
 If the condition "room temperature ≤ set temperature + f(heating compensation temperature) - 4.5°C" is maintained for 10 minutes, the external heater is turned on.
 If the condition "room temperature > set temperature + f(heating compensation temperature) - 4.5°C + 1°C" occurs, the external heater is turned off, where 1°C is the hysteresis for determining whether to turn on or off the external heater.

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.

Installation Procedure

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 37.

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 and details	Indication	Details	Indication	Details	Indication	Details	Indication	Details	Indication	Details	Indication	Details
	0		D		Option type	0 to F	Tens position value	0 to 9	Units position value	0 to 9	New value	0 to F

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

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

CAUTION

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

Memo

QUESTIONS OR COMMENTS?

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