# Mini-Split Installation manual

# MMDD\*\*\*S6-1P, MDDD\*\*\*S6-1P

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





# Contents

Safety Information	3	
Safety Information	3	
Installation Procedure	8	
Installation Procedure	8	
Step 1 Checking and preparing accessories	8	
Step 2 Choosing the installation location	8	
Step 3 Optional: Insulating the body of the indoor unit	15	
Step 4 Installing the indoor unit	15	
Step 5 Purging inert gas from the indoor unit	17	
Step 6 Cutting and flaring the pipes	17	
Step 7 Connecting the assembly pipes to the refrigerant pipes	18	
Step 8 Performing the gas leak test	19	
Step 9 Insulating the refrigerant pipes	20	
Step 10 Installing the drain hose and drain pipe	22	
Step 11 Performing the drainage test	23	
Step 12 Optional: Installing the external controller	24	
Step 13 Connecting the power and communication cables	25	
Step 14 Setting additional functions of wired controller	27	
Step 15 Optional : Setting the Emergency Temperature Output (ETO) function	30	
Step 16 Setting the indoor unit option code with the wired controller	32	
Step 17 Setting indoor unit addresses and installation options with wired controller	36	
Step 18 Optional: Setting the indoor unit addresses and the installation options with the wireless remote cont	rol 40	
Step 19 Optional: LED Display indicator specifications when checking Wi-Fi Easy Setup and Wi-Fi status	52	
Step 20 Wi-Fi module Reinstallation guide	54	
Appendix	58	
Troubleshooting	58	

# **Safety Information**

California Proposition 65 Warning (US)

↑ WARNING: www.P65Warnings.ca.gov.

Cancer and Reproductive Harm -

IMPORTANT - This product has been designed and manufactured to meet ENERGY STAR criteria for energy efficiency when matched with appropriate coil components.

However, proper refrigerant charge and proper air flow are critical to achieve rated capacity and efficiency.

Installation of this product should follow the manufacturer's refrigerant charging and air flow instructions.

Failure to confirm proper charge and airflow may reduce energy efficiency and shorten equipment life.

### ♠ WARNING

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

### **⚠** CAUTION

- Hazards or unsafe practices that may result in minor personal injury or property damage.
- Carefully follow the precautions listed below because they are essential to guarantee the safety of the equipment.

# **⚠ WARNING**

- Always disconnect the mini-split from the power supply before servicing it or accessing its internal components.
- Verify that installation and testing operations are performed by qualified personnel.
- Verify that the mini-split is not installed in an easily accessible area.

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

### **↑** WARNING

The installation and testing of this appliance must be performed by a qualified technician.

The instructions in this manual are not intended as a substitute for proper training or adequate experience in the safe installation of the appliance.

Always install the mini-split in compliance with current local, state, and federal safety standards.

- Do not use means to accelerate the defrost operation or to clean, other than those recommended by Lennox.
- Do not pierce or burn.
- Be aware that refrigerants may not contain an odor.

# Safety Information

#### General information

### **⚠ WARNING**

- Carefully read the content of this manual before installing the mini-split and store the manual in a safe place to be able to use it as a reference after installation.
- For maximum safety, installers should always carefully read the following warnings.
- Store the operation and installation manual in a safe location and remember to hand it over to the new owner if the mini-split is sold or transferred.
- This manual explains how to install an indoor unit with a split system with two Lennox units. The use of other types of units with different control systems may damage the units and invalidate the warranty. The manufacturer shall not be responsible for damages arising from the use of non-compliant units.
- The manufacturer shall not be responsible for damage originating from unauthorized changes or the improper connection of electricity and requirements outlined in the "Operating limits" table, included in the manual, shall immediately invalidate the warranty.
- All pipe work including piping material, pipe routing, and installation shall include protection from physical damage in operation and service and comply with national and local codes and standards, such as ASHRAE 15, ASHRAE 15.2, IAPMO Uniform Mechanical Code, ICC International Mechanical Code, or CSA B52. Any field joints shall be accessible for inspection before being covered or enclosed.
- The mini-split should be used only for the applications for which it has been designed: the indoor unit is not suitable to be installed in areas used for laundry.
- Do not use the units if damaged. If problems occur, switch the unit off and disconnect it from the power supply.
- To prevent electric shocks, fires or injuries, always stop the unit, disable the protection switch and contact Lennox's technical support if the unit produces smoke, if the power cable is hot or damaged or if the unit is very noisy.
- Always remember to inspect the unit, electric connections, refrigerant tubes and protections regularly. These operations should be performed by qualified personnel only.
- The unit contains moving parts, which should always be kept out of the reach of children.
- Do not attempt to repair, move, alter or reinstall the unit. If performed by unauthorized personnel, these operations may cause electric shocks or fires.
- Do not place containers with liquids or other objects on the unit.
- The mini-split contains a refrigerant that has to be disposed of as special waste. At the end of its life cycle, the mini-split must be disposed of in authorized centers or returned to the retailer so that it can be disposed of correctly and safely.

- Wear protective equipment (such as safety gloves, goggles, and headgear) during installation and maintenance work. Installation/repair technicians may be injured if improper protective equipment is worn.
- This unit is a partial unit mini-split, complying with partial unit requirements of this International Standard, and must only be connected to other units that have been confirmed as complying with corresponding partial unit requirements of this International Standard.
- 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 the 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.

#### Installing the unit

### **⚠ WARNING**

IMPORTANT: When installing the unit, always remember to connect first the refrigerant tubes, and then the electrical lines.

- Always disassemble the electric lines before the refrigerant tubes.
- Upon receipt, inspect the product to verify that it has not been damaged during transport. If the product appears damaged, DO NOT INSTALL it, and immediately report the damage to the carrier or retailer (if the installer or the authorized technician has collected the material from the retailer)
- After completing the installation, always carry out a functional test and provide instructions on how to operate the mini-split to the user.
- Do not use the mini-split in environments with hazardous substances or close to equipment that releases free flames to avoid the occurrence of fires, explosions or injuries.
- 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.
- Excessive indoor humidity or clogged condensate drain lines may cause water to drip from indoor units. Do not install the indoor unit where dripping could result in damage to property, such as over electronic equipment or other sensitive instruments.
- Our units must be installed in compliance with the space specifications presented in the installation manual to ensure accessibility from both sides and allow repairs or maintenance operations to be carried out. The unit's components must be accessible and easy to disassemble without endangering people and objects.

- For this reason, where it is not observed as indicated in the Installation Manual, the cost necessary to reach and repair the unit (safely as required by local regulations) with slings, trucks, scaffolding or any other means of elevation won't be considered in warranty and charged to end user.
- If any gas or impurities, except R-32 refrigerant, come into the refrigerant pipe, a serious problem may occur and it may cause injury.
  - Use the supplied accessories, specified components and tools for the installation.
  - Do not use the pipe and the installation product used for the R-22, R-410A refrigerant.
  - Failure to use the specified components can cause the product to fall, water leakage, electrical shock, and fire. (The pipe and flare components used for R-22, R-410A refrigerant must not be used)
  - Excessive indoor humidity or clogged condensate drain lines may cause water to drip from indoor units. Do not install the indoor unit where dripping could result in property damage, such as over electronic equipment or other sensitive instruments.
- Auxiliary systems which may be a potential ignition source shall not be installed in the ductwork.
- The mini-split contains a refrigerant that must be disposed of as special waste. At the end of its life cycle, the mini-split must be disposed of in authorized centers or returned to the retailer so that it can be disposed of correctly and safely.
- MMDD\*\*\*S6-1P indoor unit is intended for free-air discharge or connection to a duct supplying only one room. Improper installation could contribute to the spread of smoke or flames in the event of a fire.

#### Power supply line, fuse or circuit breaker

### **⚠ WARNING**

- Always make sure that the power supply is compliant with current safety standards. Always install the mini-split in compliance with current local safety standards.
- Always verify that a suitable grounding connection is available.
- Verify that the voltage and frequency of the power supply comply with the specifications and that the installed power is sufficient to ensure the operation of any other domestic appliance connected to the same electric lines.
- Always verify that the cut-off and protection switches are suitably dimensioned.
- Verify that the mini-split is connected to the power supply following the instructions provided in the wiring diagram included in the manual.

- Always verify that electric connections (cable entry, section of leads, protections...) are compliant with the electric specifications and with the instructions provided in the wiring scheme. Always verify that all connections comply with the standards applicable to the installation of mini-split.
- Devices disconnected from the power supply should be completely disconnected in the condition of overvoltage category.

### **↑** CAUTION

#### Make sure that you ground the cables.

 Do not connect the ground wire to the gas pipe, water pipe, lightning rod, or telephone wire. If the grounding is not complete, electric shock or fire may occur.

#### Install the circuit breaker.

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

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

Install the power cable and communication cable of the indoor and outdoor unit at least 3.3ft (1m) away from the electric appliance.

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

- If you use the wireless remote control, reception error may occur due to the ballast of the lighting apparatus.
- If the supply cord is damaged, it must be replaced by the manufacturer, its service agent or similarly qualified persons to avoid a hazard.

Do not use the indoor unit for the preservation of food items, plants, equipment, and artwork. This may cause deterioration of their quality.

Do not install the indoor unit if it has any drainage problems.

#### Precautions for using R-32 refrigerant

#### General

- This product is pre-charged with mildly flammable gas classified as A2L by ASHRAE. The following precautions and instruction manuals must be followed during installation, operation, servicing and decommissioning of the product.
- The appliance shall be stored in a room without continuously operating ignition sources, like open flames, a gas appliance, or an electric heater.
- All national and local regulations shall be observed at all times.

# **Safety Information**

- All pipe work including piping material, pipe routing and installation shall include protection from physical damage in operation and service, and comply national and local codes and standards, such as ASHRAE 15, ASHRAE 15.2, IAPMO Uniform Mechanical Code, ICC International Mechanical Code, or CSA B52. All filed joints shall be accessible for inspection before being covered or enclosed.
- All field piping and joints shall be pressure tested with an inert gas according to prevalent industry standards prior to refrigerant charging and system commissioning.
- Where additional field charging is required. The installer shall write with a permanent marker the field charge added on the ODU label provided, such that the Total Charge = Factory 'Pre-charge' + field charge.
- Minimum floor area of the room shall be in compliance with the min. room area according to the total charge of the installation according to Table 1.
- For ducted systems, any auxiliary systems that are
  potential ignition sources shall not be installed in the
  duct work. Examples of ignition sources are hot surfaces
  with temperatures exceeding 700°C and electric
  switching devices.
- Any auxiliary device installed must be approved by Lennox and must be suitable for operating with the refrigerant marked on the label.
- For mechanical ventilation the lower edge of the air extraction opening shall not be more than 3.9 inch (100mm) above the floor. The exhaust location outside the building must be at least 9.8ft (3m) away from the building opening and mechanical air intake openings.
- To handle, purge, and dispose of the refrigerant, or break into the refrigerant circuit, the worker should have a certificate from an industry-accredited authority.
- Non-ducted systems may be installed in the areas such as false ceilings not being used as return air plenum as long as the conditioned air does not mix with the air in the false ceilings.
- For ducted appliances false ceilings or drop ceilings may be used as return air plenum if a refrigerant leak detection system is provided in the system and any external connections are also provided with a sensor immediately below the return air plenum duct joint.
- Installation, servicing and any type of maintenance or repair must be performed by certified personnel that is competent to carry such activity in accordance with national and local regulations.

#### General Information on Servicing

- Do not work in a confined space. Ensure adequate ventilation is provided at the workspace during the entirety of the duration of the work to safely disperse any released refrigerant.
- All maintenance staff and others working in the local area shall be instructed on the nature of the work being performed and instructed to follow all instructions provided by Lennox, national and local authorities.
- The area shall be checked with an approved refrigerant detector before and during any work on the system.
- Have a dry CO<sub>2</sub> fire extinguisher adjacent to the charging area and workspace.
- The service personnel shall not use any ignition sources in a manner that it may lead to the risk of fire or explosion.
- Potential ignition sources shall be kept away from the work area where the flammable refrigerant can be released into the surrounding area.
- The work area should be checked to ensure that there are no flammable hazards or ignition risks. The "No Smoking" sign shall be attached.
- Under no circumstances shall potential sources of ignition be used upon detection of leakage.

The following checks shall be applied to installations and maintenance operations.

- The actual total refrigerant charge is in accordance with the room size in accordance with Table 1.
- The ventilation machinery and outlets are operating adequately and are not obstructed.
- Markings on the equipment are visible and legible.
- Refrigerant pipes or components are installed in a position where they are unlikely to be exposed to any substance which may corrode refrigerant containing components.

Initial checks of electrical devices shall include the following.

- That capacitors are discharged in a safe manner to avoid sparking.
- That no live electrical components and wiring are exposed while charging, recovering or purging the system.
- That there is continuity to earth bonding.
- Check that cabling is not worn, corroded or damaged in any manner.

#### Electrical repair safety measures

- All electrical components used or replaced must be to Lennox's specifications.
- If a fault exists that could compromise safety, then no electrical supply shall be connected to the circuit until it is satisfactorily dealt with.
- Sealed electrical components and intrinsically safe components shall be replaced and not repaired.
- Cabling should be protected from excessive vibration, pressure, sharp edges, and other adverse environmental factors.

#### Detection of flammable refrigerants

- Electronic leak detectors shall be used to detect flammable refrigerants, but the sensitivity may not be adequate or may need re-calibration. (Detection equipment shall be calibrated in a refrigerant-free area.)
- Make sure that the detector is not a potential source of ignition.
- Leak detection equipment shall be set at a percentage
  of the LFL (Lower flammable limit) of the refrigerant
  and shall be calibrated to the refrigerant employed and
  the appropriate percentage of gas (25% maximum) is
  confirmed.
- The use of detergents containing chlorine shall be avoided for cleaning because the chlorine may react with the refrigerant and corrode the piping.
- If leakage is suspected, naked flames shall be removed.
- If a leakage is found while brazing, the entire refrigerant shall be recovered from the product or isolated (e.g. using shut-off valves). It shall not be directly released into the environment. Oxygen-free nitrogen (OFN) shall be used for purging the system before and during the brazing process.
- The work area shall be checked with an appropriate refrigerant detector before and during work.
- Ensure that the leakage detector is appropriate for use with flammable refrigerants.

#### Removal and Evacuation

- When removing refrigerant for servicing it is recommended to remove the entire quantity.
- When removing refrigerant follow local and national regulations and follow best practices including;
  - evacuate:
  - purge the circuit with inert gas (optional for A2L);
  - evacuate (optional for A2L);
  - continuously flush or purge with inert gas when using flame to open circuit; and
  - open the circuit.

- Use proper recovery cylinders appropriate for the type of refrigerant.
- Follow prescribed industry best practices for purging and evacuation.
- Oxygen free nitrogen shall be used for purging the system.

#### Charging procedure

- Follow industry standard refrigerant charging best practices.
- Prior to recharging the system shall be pressure tested with oxygen free nitrogen gas.
- Ensure that contamination of different refrigerants does not occur when charging.
- Cylinders shall be kept in appropriate position as per instructions.
- The refrigerant system should be earthed prior to charging the system.
- Label the system when charging is completed.
- Take extreme care not to overfill the refrigeration system.
- The system shall be leak tested on completion of charging prior to commissioning.

#### Decommissioning

- Only qualified licensed professionals shall perform refrigerant recovery and decommissioning.
- Isolate the system electrically.
- All recovery equipment and cylinders shall conform to appropriate standards. Only approved cylinders, with pressure relief valves, for the type of refrigerant shall be used.
- Recover refrigerant following industry standard procedure for flammable refrigerants.
- When draining compressors oil care must be taken that there is no flammable refrigerant in the compressor and that the compressor is not hot. Oil should be handled according to local and federal regulations.
- After decommissioning, the system shall be labeled stating that it has been decommissioned. The label shall be dated and signed. The label should state that it "contains flammable refrigerant".
- Ensure that there are labels on the equipment indicating the equipment contains flammable refrigerant.
- Recovered refrigerant shall not be mixed or reused. It shall be processed according to national, state and local regulations.

# Step 1 Checking and preparing accessories

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

User manual (1)	Installation manual (1)
Clamp hose (1)	Flexible hose (1)
Insulation drain (1)	Thermal insulation sponge A (1)
Cable-tie (MMDD***S6-1P: 4EA, MDDD***S6-1P: 8EA)	Thermal insulation sponge B (1)
4	<del></del>
Rubber (4)	Thermal insulation sponge C (1)
	<del></del>
Reducer (1)	Wi-Fi connecting Wire 55.12 inch (1400 mm) (1)

# Step 2 Choosing the installation location

#### Installation location requirements

- There must be no obstacles near the air inlet and outlet.
- Install the indoor unit with a ceiling that can support its weight.
- Maintain sufficient clearance around the indoor unit.
- Before installing the indoor unit, check whether the chosen location has proper drainage possibilities.
- The indoor unit must be installed such that it is beyond public access and is not touchable by users.
- A vibration-resistant location that is not inclined (If the indoor unit is installed on a structure that is not sturdy, it may fall and get damaged or cause injury.)
- Where it is not exposed to direct sunshine.
- · Where the air filter can be removed and cleaned easily.
- A location where animals cannot access and urinate on the product. Ammonia may be generated.

### WARNING

 If appliances contain R-32 refrigerant, then the floor area of the room where the appliances are installed, operated and stored must be larger than the minimum floor area defined in the table below A [ft²(m²)].

#### <Table 1>

	Minimum required room area A [ft²(m²)]			
m [lb(kg)]	Reference Height [h <sub>o</sub> , ft(m)] 7.2(2.2) 8.2(2.5) 8.9(2.7) 10.5(3.2)			
	7.2(2.2)	7.2(2.2) 8.2(2.5) 8.9(2.7)		
≤ 4.047(1.836)		no room are	a restrictions	
4.049(1.837)	58.7(5.46)	51.7(4.80)	47.9(4.45)	40.4(3.75)
4.18(1.9)	60.8(5.64)	53.5(4.97)	49.5(4.60)	41.8(3.88)
4.40(2.0)	64.0(5.94)	56.3(5.23)	52.1(4.84)	44.0(4.08)
4.85(2.2)	70.4(6.54)	61.9(5.75)	57.3(5.33)	48.4(4.49)
5.29(2.4)	76.7(7.13)	67.5(6.27)	62.5(5.81)	52.8(4.90)
5.73(2.6)	83.1(7.72)	73.2(6.80)	67.7(6.29)	57.2(5.31)
6.17(2.8)	89.5(8.32)	78.8(7.32)	73.0(6.78)	61.6(5.72)
6.61(3.0)	95.9(8.91)	84.4(7.84)	78.2(7.26)	66.0(6.13)
7.05(3.2)	102(9.51)	90.1(8.37)	83.4(7.75)	70.4(6.54)
7.49(3.4)	109(10.1)	95.7(8.89)	88.6(8.23)	74.7(6.94)
7.93(3.6)	115(10.7)	101(9.41)	93.8(8.71)	79.1(7.35)
8.37(3.8)	122(11.3)	107(9.93)	99.0(9.20)	83.5(7.76)
8.81(4.0)	128(11.9)	113(10.5)	104(9.68)	87.9(8.17)
9.25(4.2)	134(12.5)	118(11.0)	109(10.2)	92.3(8.58)
9.70(4.4)	141(13.1)	124(11.5)	115(10.7)	96.7(8.99)
10.14(4.6)	147(13.7)	129(12.0)	120(11.1)	101(9.40)
10.58(4.8)	158(14.7)	135(12.5)	125(11.6)	106(9.80)
11.02(5.0)	172(16.0)	141(13.1)	130(12.1)	110(10.2)
11.46(5.2)	186(17.3)	146(13.6)	135(12.6)	114(10.6)
11.9(5.4)	200(18.6)	155(14.4)	141(13.1)	119(11.0)
12.34(5.6)	215(20.0)	167(15.5)	146(13.6)	123(11.4)

12.78(5.8)	231(21.5)	179(16.6)	153(14.3)	128(11.8)
13.22(6.0)	247(23.0)	192(17.8)	164(15.3)	132(12.3)

- m: Total refrigerant charge in the system
- A: Minimum required room area
- Calculated in accordance with UL 60335-2-40 Annex GG
- IMPORTANT: It's mandatory to either follow the table above or follow the federal, state, and/or local regulations regarding the minimum room area allowed for the total refrigerant charge in the system.
- The actual refrigerant charge shall be per the room size within which the refrigerant-containing parts are installed.
- The ventilation machinery and outlets shall be operating adequately and not obstructed.
- If an indirect refrigerating circuit is being used, the secondary circuit shall be checked for the presence of refrigerant.
- Marking the equipment shall continue to be visible and legible. Markings and signs that are illegible shall be corrected.
- Refrigerating pipe or components shall be installed in a position where they are unlikely to be exposed to any substance that may corrode refrigerant-containing components unless the components are constructed of materials that are inherently resistant to being corroded or are suitably protected against being so corroded.

### **⚠** CAUTION

 The minimum installation height of the indoor unit is 7.2ft (2.2 m) for ceiling.

# Do not install the mini-split in the following places.

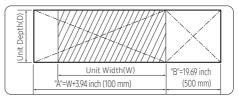
- Place where there is mineral oil or arsenic acid. Resin parts flame and the accessories may drop or water may leak. The capacity of the heat exchanger may be reduced or the mini-split may be out of order.
- A place exposed to mineral oil, oil vapor or a cooking area where there is spray (If oil adheres to the heat exchanger, performance degradation, spray or condensation scattering may occur. If oil adheres to a plastic component, the component may deform or get damaged. Such issues may result in a system failure or refrigerant leak.)
- A place with aromatic diffusers, aromatherapy, scented candles or perfumes as the chemicals may react to the product's materials and may result in system failure or refrigerant leaks.
- The place where corrosive gas such as sulphuric acid gas is generated from the vent pipe or air outlet.
- The copper pipe or connection pipe may corrode, and the refrigerant may leak.
- The place where there is a machine that generates electromagnetic waves. The mini-split may not operate normally due to the control system.

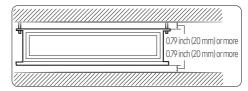
- The place where there is a danger of existing combustible gas, carbon fiber or flammable dust.
- The place that thinner or gasoline is handled. Gas may leak and it may cause fire.
- The place that is close to heat sources.
- Do not use the indoor unit for the preservation of food items, plants, equipment, and artwork. This may cause deterioration of their quality.
- Do not install the indoor unit if it has any drainage problems.

#### Space requirements for installation

Construction Standard for Inspection Hole

- In the case the ceiling is lay-in tile, an inspection hole is not needed.
- 2 In case, the ceiling is the plasterboard, the inspection hole depends on the Inside height of the ceiling.
  - a Height is more than 1.64ft (0.5m): Only "B" [Inspection for PBA] is applied.
  - **b** Height is less than 1.64ft (0.5m): Both "A"&"B" are applied.
  - "A"&"B" are inspection holes.

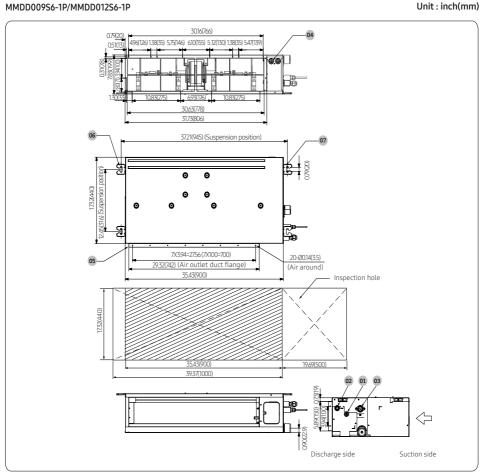




- You must have 0.79 inch (20 mm) or more space between the ceiling and the bottom of the indoor unit. Otherwise, the noise from the vibration of the indoor unit may bother the user. When the ceiling is under construction, the hole for check-up must be made to take service, clean and repair the unit.
- If you install the cassette or duct type indoor unit on the ceiling with humidity over 80%, you must apply an extra 0.39 inch (10mm) of polyethylene foam or other insulation with a similar material on the body of the indoor unit.

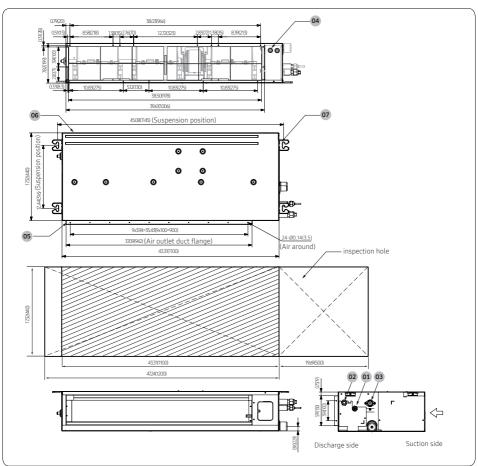
#### Indoor unit dimensions

MMDD009S6-1P/MMDD012S6-1P



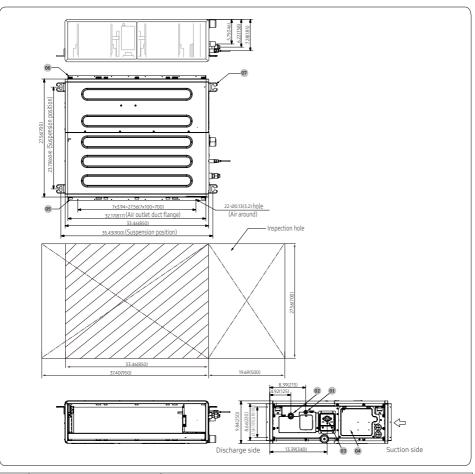
No.	Name	Description
01	Liquid pipe connection	Ø1/4 inch (6.35 mm)
02	Gas pipe connection	Ø3/8 inch (9.52mm)
03	Drainpipe connection	3/4 inch [OD 1.05 inch (26.67 mm)]
04	Power supply connection	
05	Air discharge flange	
06	Suction flange	Air filter
07	Hook	M8~M10

MMDD018S6-1P Unit:inch(mm)



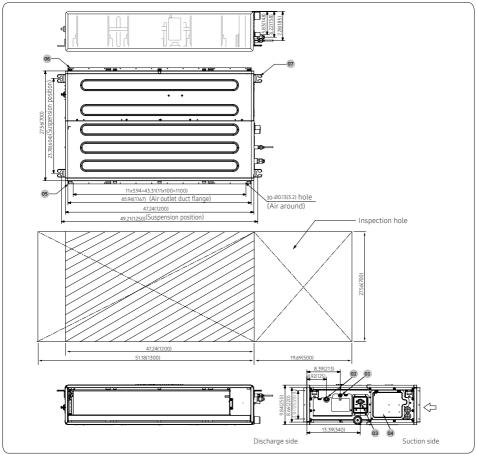
No.	Name	Description
01	Liquid pipe connection	Ø1/4 inch (6.35 mm)
02	Gas pipe connection	Ø1/2 inch (12.70 mm)
03	Drainpipe connection	3/4 inch [OD 1.05 inch (26.67 mm)]
04	Power supply connection	
05	Air discharge flange	
06	Suction flange	Air filter
07	Hook	M8~M10

#### MDDD009S6-1P/MDDD012S6-1P



Unit: inch(mm)

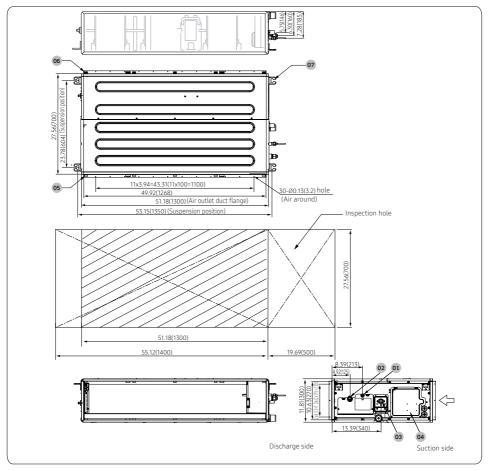
No.	Name	Description
01	Liquid pipe connection	Ø1/4 inch (6.35 mm)
02	Gas pipe connection	Ø3/8 inch (9.52 mm)
03	Drainpipe connection	3/4 inch [OD 1.05 inch (26.67 mm)]
04	Power supply connection	
05	Air discharge flange	
06	Suction flange	
07	Hook	M8~M10



No.	Name	Description		
NO.	Name	MDDD018S6-1P	MDDD024S6-1P	
01	Liquid pipe connection	Ø1/4 inch (6.35 mm)		
02	Gas pipe connection	Ø1/2 inch (12.70mm) Ø5/8 inch (15.88 mm)		
03	Drainpipe connection	3/4 inch [OD 1.05 inch (26.67 mm)]		
04	Power supply connection			
05	Air discharge flange			
06	Suction flange			
07	Hook	M8~M10		

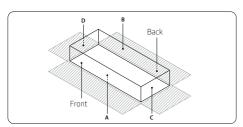
#### MDDD030S6-1P/MDDD036S6-1P/MDDD048S6-1P

Unit: inch(mm)



No.	Name	Description
01	Liquid pipe connection	Ø3/8 inch (9.52 mm)
02	Gas pipe connection	Ø5/8 inch (15.88 mm)
03	Drainpipe connection	3/4 inch [OD 1.05 inch (26.67 mm)]
04	Power supply connection	
05	Air discharge flange	
06	Suction flange	
07	Hook	M8~M10

# Step 3 Optional: Insulating the body of the indoor unit



#### Thickness: more than 0.39 inch(10mm)

Indoor	MMDD009S6-1P MMDD012S6-1P	MMDD018S6-1P	
Unit	35.43X17.32X7.83 (900X440X199)	43.31X17.32X7.83 (1100X440X199)	
А	35.43X7.83 (900X199)	43.31X7.83 (1100X199)	
В	35.43X7.83 (900X199)	43.31X7.83 (1100X199)	
С	17.32X7.83 (440X199)	17.32X7.83 (440X199)	
D 17.32X7.83 (440X199)		17.32X7.83 (440X199)	
Front/ Back	Insulate the front and back sides in proper size at the same time when insulating the suction duct and discharge duct.		

Unit: inch(mm)

Indoor Unit	MDDD009S6-1P MDDD012S6-1P	MDDD018S6-1P MDDD024S6-1P	MDDD030S6-1P MDDD036S6-1P MDDD048S6-1P
UIIIL	33.46X27.56X9.84	47.24X27.56X9.84	51.18X27.56X11.81
	(850X700X250)	(1200X700X250)	(1300X700X300)
Α	33.46X27.56	47.24X27.5	51.18X27.56
	(850X700)	(1200X700)	(1300X700)
В	33.46X27.56	47.24X27.5	51.18X27.56
	(850X700)	(1200X700)	(1300X700)
С	27.56X9.84	27.56X9.84	27.56X11.81
	(700X250)	(700X250)	(700X300)
D	27.56X9.84	27.56X9.84	27.56X11.81
	(700X250)	(700X250)	(700X300)
Front/ Back	Insulate the front and back sides in proper size at the same		

Unit: inch(mm)

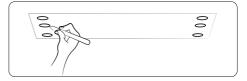
# NOTE

- Insulate the end of the pipe and some curved areas by using a separate insulator.
- Insulate the discharge and suction part at the same time as you insulate the connection duct.
- If you install a duct type indoor unit on the ceiling with humidity over 80%, you must apply an extra 0.39 inch (10 mm) of polyethylene foam or other insulation with similar material on the body of the indoor unit.

# Step 4 Installing the indoor unit

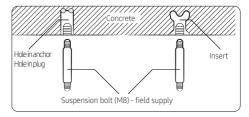
When deciding on the location of the mini-split with the owner, the following restrictions must be considered.

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

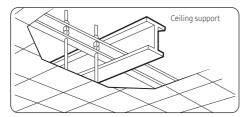


# NOTE

- 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 the figure.



3 Install the suspension bolts depending on the ceiling type.

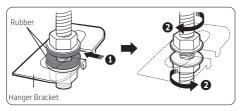


# **↑** CAUTION

- 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 the suspension bolt is more than 4.92 ft (1.5m), it is required to prevent vibration.
- If this is not possible, create an opening on the false ceiling 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.

# NOTE

- You must install all the suspension rods.
- 5 Hang the indoor unit to the suspension bolts between two nuts.

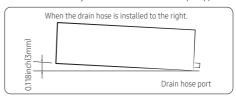


# **!** CAUTION

- 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 the level of the unit by using a measurement plate for all 4 sides.

# **A** CAUTION

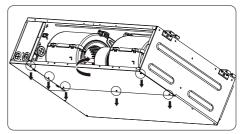
 For proper condensate drainage, give a 0.118 inch (3mm) slant to the left or right side of the unit which will be connected to the drain hose, as shown in the figure.
 Make a tilt when you wish to install the drain pump, too.



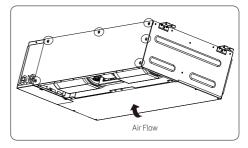
 When installing the indoor unit, make sure it is not tilted toward the front or back side.

# **CAUTION**

- You can modify the air intake as shown in the image below
- Noise will increase by 3~6 dB(A) when the air flow enters from the bottom side (Only for MMDD\*\*\*S6-1P indoor unit product).
- 1 Disassemble 6 screws and replace the frame.
  - Please put the image before work.
  - Please check screw O'tv.



2 Assemble 6 screws



# Step 5 Purging inert gas from the indoor unit

From the factory, the unit is supplied and set with a precharge of nitrogen gas. Therefore, all inert gas must be purged before connecting the assembly piping.

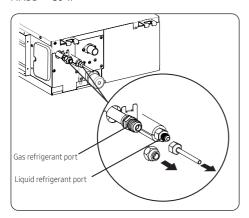


#### CAUTION

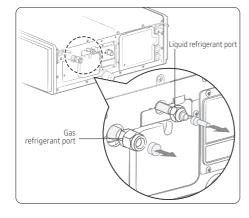
 Be careful not to damage the Wi-Fi cover when removing Flare Nut.

Unscrew the pinch pipe at the end of each refrigerant pipe.
Result: All inert gas escapes from the indoor unit.

#### MMDD\*\*\*S6-1P



#### MDDD\*\*\*S6-1P



### NOTE

- The designs and shapes are subject to change according to the model.
- To prevent dirt or foreign objects from getting into the pipes during installation, do NOT remove the pinch pipe completely until you are ready to connect the piping.

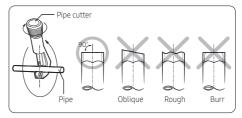


#### CAUTION

- Connect the indoor and outdoor units using pipes with flared connections (not supplied). For the lines, use insulated, unwelded, degreased and deoxidized copper pipe (Cu DHP type to ISO 1337 or UNI EN12735-1). Operating pressure depends on outdoor unit specifications. Check the outdoor unit installation manual.
- For sizing and limits (height difference, line length, max. bends, refrigerant charge, etc.) see the outdoor unit installation manual.
- All refrigerant connections must be accessible, to permit either unit maintenance or removing it completely.
- If the pipes require brazing, ensure that OFN (Oxygen Free Nitrogen) is flowing through the system.
- The nitrogen blowing pressure range is 0.02 ~ 0.05MPa(2.9 to 7.3 psi).

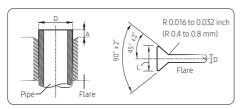
# Step 6 Cutting and flaring the pipes

- 1 Make sure that you have the required tools available. (pipe cutter, reamer, flaring tool and pipe holder)
- 2 If you wish to shorten the pipes, cut them with a pipe cutter, taking care to ensure that the cut edge remains at a 90° angle with the side of the pipe. Refer to the illustrations below for examples of edges cut correctly and incorrectly.



3 To prevent any gas from leaking out, remove all burrs at the cut edge of the pipe, using a reamer.

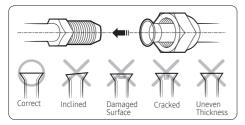
4 Slide a flare nut onto the pipe and modify the flare.



Outer Diameter (D)	Depth (A)	Flare dimension (L)
Ø1/4 (6.35)	0.051 (1.3)	0.34~0.36 (8.7~9.1)
Ø3/8 (9.52)	0.071 (1.8)	0.50~0.52 (12.8~13.2)
Ø1/2 (12.70)	0.079 (2.0)	0.64~0.65 (16.2~16.6)
Ø5/8 (15.88)	0.087 (2.2)	0.76~0.78 (19.3~19.7)
Ø3/4(19.05)	0.087 (2.2)	0.93~0.94 (23.6~24.0)

Unit: inch(mm)

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



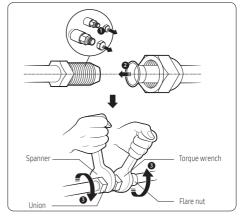
# **↑** CAUTION

- If the pipes require brazing, ensure that OFN (Oxygen Free Nitrogen) is flowing through the system.
- The Nitrogen blowing pressure range is 0.02 ~ 0.05MPa.

# Step 7 Connecting the assembly pipes to the refrigerant pipes

There are two refrigerant pipes of different diameters :

- A smaller one for the liquid refrigerant
- A larger one for the gas refrigerant
- The inside of copper pipe must be clean & has no dust
- 1 Remove the pinch pipe on the pipes and connect the assembly pipes to each pipe, tightening the nuts, first manually and then with a torque wrench, a spanner applying the following torque.



Outer D	iameter	Torque		
mm	inch	N∙m	lbf.ft	
Ø6.35	1/4	14 to 18	10.3 to 13.3	
Ø9.52	3/8	34 to 42	25.1 to 31.0	
Ø12.70	1/2	49 to 61	36.1 to 45.0	
Ø15.88	5/8	68 to 82	50.2 to 60.5	
Ø19.05	3/4	100 to 120	73.8 to 88.5	

(1 N•m=10 kgf•cm)



- If the pipes must be shortened refer to page 17, Step 6 Cutting and flaring the pipes
- Tighten the nuts to the specified torques. If overtightened, the nuts could be broken so refrigerant may leak.
- 2 Be sure to use an insulator that is thick enough to cover the refrigerant tube to protect the condensate water on the outside of the pipe from falling onto the floor and the efficiency of the unit will be better.
- 3 Cut off any excess foam insulation.

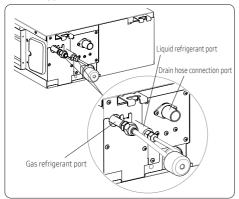
- 4 Be sure that there are no cracks or waves on the bent area.
- 5 It would be necessary to double the insulation thickness [0.39 inch (10mm) or more] to prevent condensation even on the insulator when the installed area is warm and humid.
- **6** Do not use joints or extensions for the pipes that connect the indoor and outdoor units. The only permitted connections are those for which the units are designed.



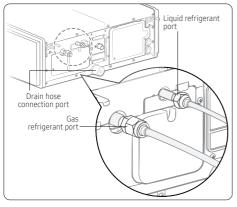
### **CAUTION**

 Be careful not to damage the Wi-Fi cover when removing Flare Nut.

#### MMDD\*\*\*S6-1P



#### MDDD\*\*\*S6-1P



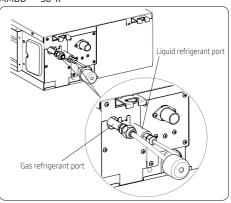
### Step 8 Performing the gas leak test

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

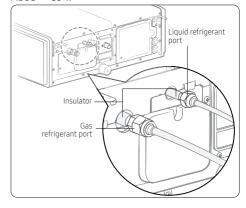
Before vacuuming and circulating the refrigerant gas, pressurize the whole system with nitrogen (using a cylinder with a pressure reducer) at a pressure of 4.0 MPa(594.7 psi) (gauge) to immediately detect leaks on the refrigerant fittings.

Make a vacuum for 15 minutes and pressurize the system with nitrogen.

#### MMDD\*\*\*S6-1P



#### MDDD\*\*\*S6-1P



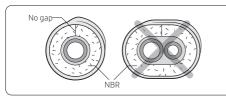
# NOTE

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

#### Step 9 Insulating the refrigerant pipes

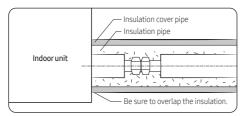
Once you have checked that there are no leaks in the system, you can insulate the piping and hose.

 To avoid condensation problems, place Acrylonitrile Butadiene 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 to avoid compressing the insulation too much.

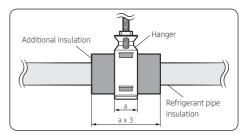


# CAUTION

- Be sure to wrap the insulation tightly without any gaps.
- **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.

# ∕<u>İ</u>∖ CAUTION

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



- 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 86°F(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 unfavorable environment, use a thicker one.
  - The heat-resistance temperature of the insulator must be more than 248°F(120°C).

	Outer diameter e		Insulation Type (Cooling, Heating)					
Pipe				eral °C), 85%]	[86°F(30	umidity )°C), over %]	Remarks	
				EPDM	I, NBR			
	mm	inch	mm	inch	mm	inch		
Liquid	6.35~9.52	1/4~3/8	9	3/8	9	3/8		
pipe	12.7~50.80	1/2~2	13	1/2	13	1/2		
	6.35	1/4	13	1/2	19	3/4	The internal temperature	
Ci	9.52~25.4	3/8~1	19	3/4	25	1	is higher than 248°F(120°C)	
Gas pipe	28.58~44.45	1 1/8~1 3/4	19	3/4	32	1 1/4		
	50.8	2	25	1	38	1 1/2		

• When installing insulation in 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, lakes or riversides, and ridges (when part of the building is covered by earth and sand)

#### Operation purpose condition>

Restaurant ceiling, sauna, swimming pool etc.

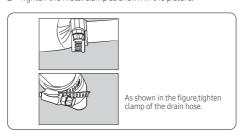
#### <Building construction condition>

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

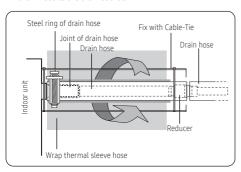
Places (where the pipes are installed) that are highly humid due to a lack of ventilation.

# Step 10 Installing the drain hose and drain pipe

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



- **3** Wrap the supplied large sealing pad over the metal clamp and drain hose to insulate and fix it with clamps.
- 4 Insulate the complete drain piping inside the building (field supply).
  If the drain hose cannot be sufficiently set on a slope, fit the hose with drain raising piping (field supply).
- 5 Push the drain hose up to insulation when connecting the drain hose to the drain socket.

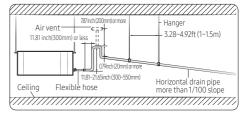


#### With the drain pump

- 1 The drain pipe should be installed within 11.81inch(300mm) to 21.65inch(550mm) from the flexible hose and then lift down 0.79inch(20mm) or more.
- 2 Install the horizontal drainpipe and copper pipe at an incline of at least 1/100, and attach a full-thread bolt hanger every 39.37 to 59.05 inches (1 to 1.5 m) along the pipe to fix it in place.
- 3 Install the air vent in the horizontal drainpipe to prevent water from flowing back to the indoor unit.
- Place the drainpipe at a height of 11.81 to 21.65 inches (300 to 550 mm) within 11.81 inches (300 mm) from the drain hose, and install it with a drop-off of at least 0.79 inch (20 mm).
- If the slope of the horizontal drainpipe is less than 1/100, install an air vent with a height of at least 7.87 inches (200 mm) or a backflow prevention vent at each drain inlet, to ensure smooth condensate flow.
- If the slope of the drainpipe is less than 1/100 and no air vent is installed, the mini-split will not operate properly because condensate is not discharged.
- If an air vent with a of height less than 7.87 inches(200 mm) or a vent without backflow prevention functionality is installed, the drainpipe may become clogged, causing water to leak through the vent.

## NOTE

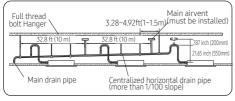
- You may not need to install it if there is a proper slope in the horizontal drainpipe.
- 4 The flexible hose should not be installed in a upward position, as it may cause water to flow back to the indoor unit.



#### Centralized drainage with the drain pump



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



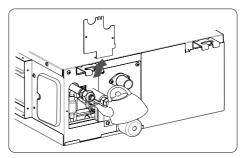
- If 3 or more units are installed, install a main air vent in front of the farthest indoor unit from the main drain pipe.
- To prevent water from flowing back to indoor units, install an individual air vent at the top of each indoor unit.
  - The air vents should be T or 7 shaped to prevent dust or foreign substances from entering.
  - You may not need to install an air vent if the horizontal drain pipe has a proper slope.
- ① If the centralized horizontal drain pipe is 32.8 ft (10 m) or longer, install an air vent every 32.8 ft (10 m).
  - If the centralized horizontal drain pipe is shorter than 32.8 ft (10 m), install an air vent in front of the indoor unit farthest from the main drain pipe.
- ② Install the centralized horizontal drain pipe at an incline of at least 1/100, and attach a full-thread bolt hanger every 3.28 to 4.92 ft (1 to 1.5 m) along the pipe to fix it in place.
  - If the slope of the centralized horizontal drain pipe is less than 1/100, install an air vent with a height of at least 7.87 inches (200 mm) or a backflow prevention vent at each drain inlet, to ensure smooth condensate flow.
  - If the slope of the centralized horizontal drain pipe is less than 1/100 and no air vent is installed, the minisplit may not operate properly because condensate is not discharged.
  - If an air vent with a height less than 7.87 inches (200 mm) or a vent without backflow prevention functionality is installed, the drain pipe may become clogged, causing condensate to flow back through the vent.

### Step 11 Performing the drainage test

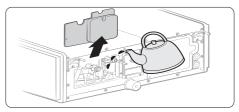
Prepare a little water, about 2 liters.

- 1 Pour water into the base pan in the indoor unit as shown in the figure.
- 2 Confirm that the water flows out through the drain hose.

#### MMDD\*\*\*S6-1P



MDDD\*\*\*S6-1P



#### \*The designs and shapes are subject to change according to the model.

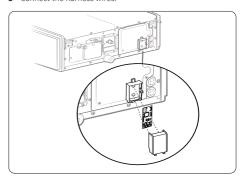
- 3 Confirm that the water flows out through the drain hose.
- **4** When the drain pump is installed, operate the unit in cooling mode and check a drain pump pumping.
- 5 Check drain water drops at the end of the drainpipe.
- 6 Make sure there is no water leak in the drainage.
- 7 Reinstall the side cover plate.

# Step 12 Optional: Installing the external controller

#### Accessories (External controller: VSTAT10P-1)

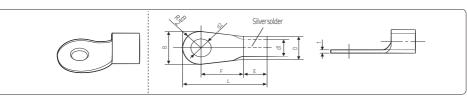
External Controller	PCB Case
Wire Harness(4P)	Wire Harness(2P)
0	#3 <del></del>
Screw	

- 1 Fix the case at with bolts on the side of the control box in the indoor unit. (See the picture).
- 2 Attach the external controller PCB to the case in the control box of the indoor unit.
- 3 Connect the harness wires.



#### Wiring work

#### Selecting compressed ring terminal



Nomi	inal dimensions for cable [Inch² (mm²)]	n²)] 0.002 (1.5)		0.003 (2.5)		0.006 (4)		
Nom	ninal dimensions for screw [Inch (mm)]	0.15 (4)	0.15 (4)	0.15 (4)	0.15 (4)	0.15 (4)		
В	Standard dimension [Inch (mm)]	0.25 (6.6)	0.31 (8.0)	0.25 (6.6)	0.33 (8.5)	0.37 (9.5)		
В	Allowance [Inch (mm)]	±0.007 (±	:0.2)	±0.007 (±0.2)		±0.007 (±0.2)		
	Standard dimension [Inch (mm)]	0.13 (3.	4)	0.16	0.16 (4.2)			
D	Allowance [Inch (mm)]	+0.011 (+0.3) -0.007 (-0.2)		+0.011 (+0.3) -0.007 (-0.2)		+0.011 (+0.3) -0.007 (-0.2)		
d1	Standard dimension [Inch (mm)]	0.06 (1.7)		0.09 (2.3)		0.13 (3.4)		
u i	Allowance [Inch (mm)]	±0.007 (±0.2)		±0.007 (±0.2)		±0.007 (±0.2)		
Е	Min. [Inch (mm)]	3/16 (4.1)		1/4 (6)		1/4 (6)		
F	Min. [Inch (mm)]	1/4 (6)		1/4 (6)		1/4 (6)		
L	Max. [Inch (mm)]	5/8 (16)		5/8 (16) 3/4 (17.5)		3/4 (20)		
	Standard dimension [Inch (mm)]	0.16 (4.3)		0.16 (4.3)		0.16	(4.3)	0.16 (4.3)
d2	Allowance [Inch (mm)]	+0.007 (+0.2) 0 (0)			(+0.2) (0)	+0.007 (+0.2) 0 (0)		
t	Min. [Inch (mm)]	0.02 (0.7)		0.03	(0.8)	0.035 (0.9)		

# Step 13 Connecting the power and communication cables

# Ŵ

# **CAUTION**

 Always remember to connect the refrigerant pipes before performing the electric connections. When disconnecting the system, always disconnect the electric cables before disconnecting the refrigerant pipes.



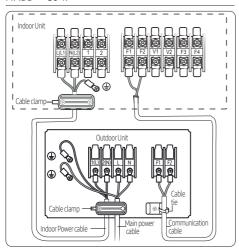
# **CAUTION**

 Always connect the mini-split to the grounding system before performing the electric connections. Use a crimp ring terminal at the end of each wire.

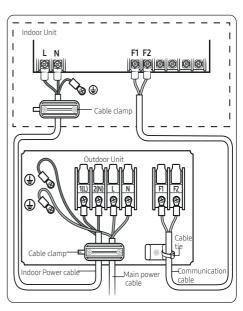
The indoor unit is powered through the outdoor unit using a H05RN-F (60245 / IEC57) connection cable (or a more powerful model), with insulation in synthetic rubber and a jacket in polychloroprene (neoprene), following the requirements specified in the standard EN 60335-2-40.

- 1 Remove the screw on the electrical component box and remove the cover plate.
- 2 Route the connection cord through the side of the indoor unit and connect the cable to the terminals refer to the figure below.
- **3** Route the other end of the cable to the outdoor unit through the ceiling & the hole in the wall.
- 4 Reassemble the electrical component box cover, carefully tightening the screw.

#### MMDD\*\*\*S6-1P



#### MDDD\*\*\*S6-1P

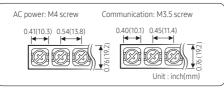


# NOTE

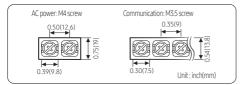
 The Terminal Block of the outdoor unit may be different from the diagram depending on the model. Refer to the manual of the outdoor unit for the configuration of the terminal block of the outdoor unit.

Indoor power supply			
Power supply	Max/ Min(V)	Indoor power cable	
208 to 230V, 60 Hz	±10%	MMDD***S6-1P : AWG18↑ MDDD***S6-1P : AWG14↑, 3 wires	
Communication cable			
AWG18↑, 2 wires			

#### MMDD\*\*\*S6-1P



#### MDDD\*\*\*S6-1P



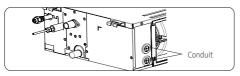
Tightening torque lbf·ft (kgf • cm)		
M3.5	0.58 to 0.87 (8.0 to 12.0)	
M4 0.87 to 1.30 (12.0 to 18.0)		
111 101 (		

- 1 N·m = 10 kgf·cm
- Power supply cords of parts of appliances for outdoor use shall not be lighter than polychloroprene sheathed flexible cords.
  - -Code designation

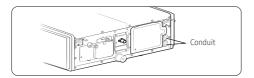
[1-phase] IEC: 60245 IEC 57 / CENELEC: H05RN-F grade or more

 Be sure to run the power supply cable and the communication cable through the electrical conduit as seen in the picture.

#### MMDD\*\*\*S6-1P

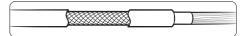


#### MDDD\*\*\*S6-1P



# **1** CAUTION

- Be sure not to put your finger into the conduit.
- Since it has an external power supply, refer to the outdoor unit installation manual for MAIN POWER.



# Ŵ

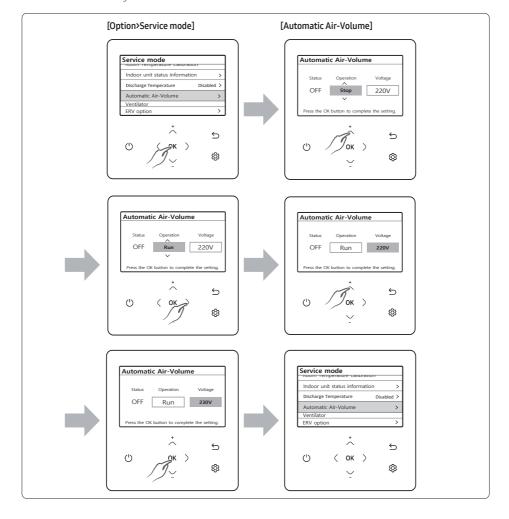
### **CAUTION**

 When installing the indoor unit in a computer room or a server room, use the double shielded communication cable (tape aluminum / polyester braid + copper) of FROHH2R or LiYCY type.

# Step 14 Setting additional functions of wired controller

#### Automatic Air-Volume (This function can't be used at MMDD\*\*\*S6-1P model)

An Automatic Air-Volume function must be performed for each indoor unit with the wired controller attached. With its BLDC motor, you can use smart adjust the indoor unit fan speed depending on the installation condition. If the duct is long so the external static pressure is high, or the duct is short so the external static pressure is low, the Automatic Air Volume will automatically adjust the supply air flow to the rate air flow rate. Push the button to enter the automatic air volume setting screen.



# External Static Pressure (ESP) setting for phase control motor

With its phase control motor, you can adjust the indoor unit fan speed depending on the installation condition. If the external static pressure is high so that the duct becomes longer or if the external static pressure is low so that the duct becomes shorter, adjust the fan speed by referring to the following table.

Model		MMDD009S6-1P
Static Pressure		Option Code for Indoor Unit
inWg	mmAq	Option Code for indoor offic
0.01≤Ps≤0.06	0.3≤Ps≤1.5	01C3FC-1C543A-271A23-372000
0.06 <ps≤0.1< td=""><td>1.5<ps≤2.6< td=""><td>01C3FC-1C549E-271A23-372000</td></ps≤2.6<></td></ps≤0.1<>	1.5 <ps≤2.6< td=""><td>01C3FC-1C549E-271A23-372000</td></ps≤2.6<>	01C3FC-1C549E-271A23-372000
0.1 <ps≤0.16< td=""><td>2.6<ps≤4.0< td=""><td>01C3FC-1C55E3-271A23-372000</td></ps≤4.0<></td></ps≤0.16<>	2.6 <ps≤4.0< td=""><td>01C3FC-1C55E3-271A23-372000</td></ps≤4.0<>	01C3FC-1C55E3-271A23-372000
0.16 <ps≤0.20< td=""><td>4.0<ps≤5.0< td=""><td>01C3FC-1C5925-271A23-372000</td></ps≤5.0<></td></ps≤0.20<>	4.0 <ps≤5.0< td=""><td>01C3FC-1C5925-271A23-372000</td></ps≤5.0<>	01C3FC-1C5925-271A23-372000
0.20 <ps≤0.24< td=""><td>5.0<ps≤6.0< td=""><td>01C3FC-1C5968-271A23-372000</td></ps≤6.0<></td></ps≤0.24<>	5.0 <ps≤6.0< td=""><td>01C3FC-1C5968-271A23-372000</td></ps≤6.0<>	01C3FC-1C5968-271A23-372000

Model		MMDD012S6-1P
Static Pressure		Option Code for Indoor Unit
inWg	mmAq	Option Code for indoor offic
0.01≤Ps≤0.06	0.3≤Ps≤1.5	01C3FC-1C54DF-272328-372000
0.06 <ps≤0.1< td=""><td>1.5<ps≤2.6< td=""><td>01C3FC-1C5923-272328-372000</td></ps≤2.6<></td></ps≤0.1<>	1.5 <ps≤2.6< td=""><td>01C3FC-1C5923-272328-372000</td></ps≤2.6<>	01C3FC-1C5923-272328-372000
0.1 <ps≤0.16< td=""><td>2.6<ps≤4.0< td=""><td>01C3FC-1C5975-272328-372000</td></ps≤4.0<></td></ps≤0.16<>	2.6 <ps≤4.0< td=""><td>01C3FC-1C5975-272328-372000</td></ps≤4.0<>	01C3FC-1C5975-272328-372000
0.16 <ps≤0.20< td=""><td>4.0<ps≤5.0< td=""><td>01C3FC-1C59A8-272328-372000</td></ps≤5.0<></td></ps≤0.20<>	4.0 <ps≤5.0< td=""><td>01C3FC-1C59A8-272328-372000</td></ps≤5.0<>	01C3FC-1C59A8-272328-372000
0.20 <ps≤0.24< td=""><td>5.0<ps≤6.0< td=""><td>01C3FC-1C59DA-272328-372000</td></ps≤6.0<></td></ps≤0.24<>	5.0 <ps≤6.0< td=""><td>01C3FC-1C59DA-272328-372000</td></ps≤6.0<>	01C3FC-1C59DA-272328-372000

Model		MMDD018S6-1P
Static Pressure		Option Code for Indoor Unit
inWg	mmAq	Option Code for indoor offic
0.01≤Ps≤0.06	0.3≤Ps≤1.5	01C3EC-1C54FB-22343C-372000
0.06 <ps≤0.1< td=""><td>1.5<ps≤2.6< td=""><td>01C3EC-1C583D-22343C-372000</td></ps≤2.6<></td></ps≤0.1<>	1.5 <ps≤2.6< td=""><td>01C3EC-1C583D-22343C-372000</td></ps≤2.6<>	01C3EC-1C583D-22343C-372000
0.1 <ps≤0.16< td=""><td>2.6<ps≤4.0< td=""><td>01C3EC-1C5980-22343C-372000</td></ps≤4.0<></td></ps≤0.16<>	2.6 <ps≤4.0< td=""><td>01C3EC-1C5980-22343C-372000</td></ps≤4.0<>	01C3EC-1C5980-22343C-372000
0.16 <ps≤0.20< td=""><td>4.0<ps≤5.0< td=""><td>01C3EC-1C59B2-22343C-372000</td></ps≤5.0<></td></ps≤0.20<>	4.0 <ps≤5.0< td=""><td>01C3EC-1C59B2-22343C-372000</td></ps≤5.0<>	01C3EC-1C59B2-22343C-372000
0.20 <ps≤0.24< td=""><td>5.0<ps≤6.0< td=""><td>01C3EC-1C59F5-22343C-372000</td></ps≤6.0<></td></ps≤0.24<>	5.0 <ps≤6.0< td=""><td>01C3EC-1C59F5-22343C-372000</td></ps≤6.0<>	01C3EC-1C59F5-22343C-372000

MDDD009S6-1P
Option Code for Indoor Unit
Option Code for indoor offic
01B3FC-1C5422-271A23-372000
01B3FC-1C5495-271A23-372000
01B3FC-1C54EA-271A23-372000
01B3FC-1C588E-271A23-372000
01B3FC-1C5970-271A23-372000

Model		MDDD012S6-1P
Static Pressure		Option Code for Indoor Unit
inWg	mmAq	Option code for illdoor offic
0.01≤Ps≤0.06	2.5≤Ps≤5	01B3FC-1C5443-272328-372000
0.06 <ps≤0.1< td=""><td>5<ps≤7.5< td=""><td>01B3FC-1C54A7-272328-372000</td></ps≤7.5<></td></ps≤0.1<>	5 <ps≤7.5< td=""><td>01B3FC-1C54A7-272328-372000</td></ps≤7.5<>	01B3FC-1C54A7-272328-372000
0.1 <ps≤0.16< td=""><td>7.5<ps≤10.0< td=""><td>01B3FC-1C54FC-272328-372000</td></ps≤10.0<></td></ps≤0.16<>	7.5 <ps≤10.0< td=""><td>01B3FC-1C54FC-272328-372000</td></ps≤10.0<>	01B3FC-1C54FC-272328-372000
0.16 <ps≤0.20< td=""><td>10.0<ps≤12.5< td=""><td>01B3FC-1C589F-272328-372000</td></ps≤12.5<></td></ps≤0.20<>	10.0 <ps≤12.5< td=""><td>01B3FC-1C589F-272328-372000</td></ps≤12.5<>	01B3FC-1C589F-272328-372000
0.20 <ps≤0.24< td=""><td>12.5<ps≤15.0< td=""><td>01B3FC-1C5981-272328-372000</td></ps≤15.0<></td></ps≤0.24<>	12.5 <ps≤15.0< td=""><td>01B3FC-1C5981-272328-372000</td></ps≤15.0<>	01B3FC-1C5981-272328-372000

Model		MDDD018S6-1P
Static Pressure		Option Code for Indoor Unit
inWg	mmAq	Option Code for Indoor Offic
0.10≤Ps≤0.20	2.5≤Ps≤5	01B3FC-1C5459-2F343C-372020
0.20 <ps≤0.30< td=""><td>5<ps≤7.5< td=""><td>01B3FC-1C54BD-2F343C-372020</td></ps≤7.5<></td></ps≤0.30<>	5 <ps≤7.5< td=""><td>01B3FC-1C54BD-2F343C-372020</td></ps≤7.5<>	01B3FC-1C54BD-2F343C-372020
0.30 <ps≤0.40< td=""><td>7.5<ps≤10.0< td=""><td>01B3FC-1C5901-2F343C-372020</td></ps≤10.0<></td></ps≤0.40<>	7.5 <ps≤10.0< td=""><td>01B3FC-1C5901-2F343C-372020</td></ps≤10.0<>	01B3FC-1C5901-2F343C-372020
0.40 <ps≤0.50< td=""><td>10.0<ps≤12.5< td=""><td>01B3FC-1C5954-2F343C-372020</td></ps≤12.5<></td></ps≤0.50<>	10.0 <ps≤12.5< td=""><td>01B3FC-1C5954-2F343C-372020</td></ps≤12.5<>	01B3FC-1C5954-2F343C-372020
0.50 <ps≤0.60< td=""><td>12.5<ps≤15.0< td=""><td>01B3FC-1C5997-27343C-372020</td></ps≤15.0<></td></ps≤0.60<>	12.5 <ps≤15.0< td=""><td>01B3FC-1C5997-27343C-372020</td></ps≤15.0<>	01B3FC-1C5997-27343C-372020
0.60 <ps≤0.70< td=""><td>15<ps≤17.5< td=""><td>01B3FC-1C59E9-2F343C-372020</td></ps≤17.5<></td></ps≤0.70<>	15 <ps≤17.5< td=""><td>01B3FC-1C59E9-2F343C-372020</td></ps≤17.5<>	01B3FC-1C59E9-2F343C-372020
0.70 <ps≤0.80< td=""><td>17.5<ps≤20.0< td=""><td>01B3FC-1C5D2C-2F343C-372020</td></ps≤20.0<></td></ps≤0.80<>	17.5 <ps≤20.0< td=""><td>01B3FC-1C5D2C-2F343C-372020</td></ps≤20.0<>	01B3FC-1C5D2C-2F343C-372020

Model		MDDD024S6-1P
Static Pressure		Option Code for Indoor Unit
inWg	mmAq	Option code for indoor offic
0.10≤Ps≤0.20	2.5≤Ps≤5	01B3FC-1C545A-27484F-372020
0.20 <ps≤0.30< td=""><td>5<ps≤7.5< td=""><td>01B3FC-1C54BE-27484F-372020</td></ps≤7.5<></td></ps≤0.30<>	5 <ps≤7.5< td=""><td>01B3FC-1C54BE-27484F-372020</td></ps≤7.5<>	01B3FC-1C54BE-27484F-372020
0.30 <ps≤0.40< td=""><td>7.5<ps≤10.0< td=""><td>01B3FC-1C5902-27484F-372020</td></ps≤10.0<></td></ps≤0.40<>	7.5 <ps≤10.0< td=""><td>01B3FC-1C5902-27484F-372020</td></ps≤10.0<>	01B3FC-1C5902-27484F-372020
0.40 <ps≤0.50< td=""><td>10.0<ps≤12.5< td=""><td>01B3FC-1C5955-27484F-372020</td></ps≤12.5<></td></ps≤0.50<>	10.0 <ps≤12.5< td=""><td>01B3FC-1C5955-27484F-372020</td></ps≤12.5<>	01B3FC-1C5955-27484F-372020
0.50 <ps≤0.60< td=""><td>12.5<ps≤15.0< td=""><td>01B3FC-1C5998-27484F-372020</td></ps≤15.0<></td></ps≤0.60<>	12.5 <ps≤15.0< td=""><td>01B3FC-1C5998-27484F-372020</td></ps≤15.0<>	01B3FC-1C5998-27484F-372020
0.60 <ps≤0.70< td=""><td>15<ps≤17.5< td=""><td>01B3FC-1C59EA-27484F-372020</td></ps≤17.5<></td></ps≤0.70<>	15 <ps≤17.5< td=""><td>01B3FC-1C59EA-27484F-372020</td></ps≤17.5<>	01B3FC-1C59EA-27484F-372020
0.70 <ps≤0.80 17.5<ps≤20.0<="" td=""><td>01B3FC-1C5D2D-27484F-372020</td></ps≤0.80>		01B3FC-1C5D2D-27484F-372020

Model		MDDD030S6-1P
Static Pressure		Option Code for Indoor Unit
inWg	mmAq	Option Code for indoor offic
0.10≤Ps≤0.20	2.5≤Ps≤5	01B3FC-1C5405-275A66-372045
0.20 <ps≤0.30< td=""><td>5<ps≤7.5< td=""><td>01B3FC-1C5459-275A66-372045</td></ps≤7.5<></td></ps≤0.30<>	5 <ps≤7.5< td=""><td>01B3FC-1C5459-275A66-372045</td></ps≤7.5<>	01B3FC-1C5459-275A66-372045
0.30 <ps≤0.40< td=""><td>7.5<ps≤10.0< td=""><td>01B3FC-1C54AC-275A66-372045</td></ps≤10.0<></td></ps≤0.40<>	7.5 <ps≤10.0< td=""><td>01B3FC-1C54AC-275A66-372045</td></ps≤10.0<>	01B3FC-1C54AC-275A66-372045
0.40 <ps≤0.50< td=""><td>10.0<ps≤12.5< td=""><td>01B3FC-1C54EF-275A66-372045</td></ps≤12.5<></td></ps≤0.50<>	10.0 <ps≤12.5< td=""><td>01B3FC-1C54EF-275A66-372045</td></ps≤12.5<>	01B3FC-1C54EF-275A66-372045
0.50 <ps≤0.60< td=""><td>12.5<ps≤15.0< td=""><td>01B3FC-1C5912-275A66-372045</td></ps≤15.0<></td></ps≤0.60<>	12.5 <ps≤15.0< td=""><td>01B3FC-1C5912-275A66-372045</td></ps≤15.0<>	01B3FC-1C5912-275A66-372045
0.60 <ps≤0.70< td=""><td>15<ps≤17.5< td=""><td>01B3FC-1C5954-275A66-372045</td></ps≤17.5<></td></ps≤0.70<>	15 <ps≤17.5< td=""><td>01B3FC-1C5954-275A66-372045</td></ps≤17.5<>	01B3FC-1C5954-275A66-372045
0.70 <ps≤0.80 17.5<ps≤20.0<="" td=""  =""><td>01B3FC-1C5987-275A66-372045</td></ps≤0.80>		01B3FC-1C5987-275A66-372045

Model		MDDD036S6-1P
Static Pressure		Option Code for Indoor Unit
inWg	mmAq	Option code for indoor offic
0.10≤Ps≤0.20	2.5≤Ps≤5	01B3FC-1C5439-276975-372045
0.20 <ps≤0.30< td=""><td>5<ps≤7.5< td=""><td>01B3FC-1C548C-276975-372045</td></ps≤7.5<></td></ps≤0.30<>	5 <ps≤7.5< td=""><td>01B3FC-1C548C-276975-372045</td></ps≤7.5<>	01B3FC-1C548C-276975-372045
0.30 <ps≤0.40< td=""><td>7.5<ps≤10.0< td=""><td>01B3FC-1C54CE-276975-372045</td></ps≤10.0<></td></ps≤0.40<>	7.5 <ps≤10.0< td=""><td>01B3FC-1C54CE-276975-372045</td></ps≤10.0<>	01B3FC-1C54CE-276975-372045
0.40 <ps≤0.50< td=""><td>10.0<ps≤12.5< td=""><td>01B3FC-1C55F1-276975-372045</td></ps≤12.5<></td></ps≤0.50<>	10.0 <ps≤12.5< td=""><td>01B3FC-1C55F1-276975-372045</td></ps≤12.5<>	01B3FC-1C55F1-276975-372045
0.50 <ps≤0.60< td=""><td>12.5<ps≤15.0< td=""><td>01B3FC-1C5933-276975-372045</td></ps≤15.0<></td></ps≤0.60<>	12.5 <ps≤15.0< td=""><td>01B3FC-1C5933-276975-372045</td></ps≤15.0<>	01B3FC-1C5933-276975-372045
0.60 <ps≤0.70< td=""><td>15<ps≤17.5< td=""><td>01B3FC-1C5965-276975-372045</td></ps≤17.5<></td></ps≤0.70<>	15 <ps≤17.5< td=""><td>01B3FC-1C5965-276975-372045</td></ps≤17.5<>	01B3FC-1C5965-276975-372045
0.70 <ps≤0.80< td=""><td>17.5<ps≤20.0< td=""><td>01B3FC-1C59A6-276975-372045</td></ps≤20.0<></td></ps≤0.80<>	17.5 <ps≤20.0< td=""><td>01B3FC-1C59A6-276975-372045</td></ps≤20.0<>	01B3FC-1C59A6-276975-372045

Model		MDDD048S6-1P
Static Pressure		Option Code for Indoor Unit
inWg	mmAq	Option Code for Indoor Offic
0.10≤Ps≤0.20	2.5≤Ps≤5	01B3FC-1C545A-278C9B-372045
0.20 <ps≤0.30< td=""><td>5<ps≤7.5< td=""><td>01B3FC-1C54AD-278C9B-372045</td></ps≤7.5<></td></ps≤0.30<>	5 <ps≤7.5< td=""><td>01B3FC-1C54AD-278C9B-372045</td></ps≤7.5<>	01B3FC-1C54AD-278C9B-372045
0.30 <ps≤0.40< td=""><td>7.5<ps≤10.0< td=""><td>01B3FC-1C54EF-278C9B-372045</td></ps≤10.0<></td></ps≤0.40<>	7.5 <ps≤10.0< td=""><td>01B3FC-1C54EF-278C9B-372045</td></ps≤10.0<>	01B3FC-1C54EF-278C9B-372045
0.40 <ps≤0.50< td=""><td>10.0<ps≤12.5< td=""><td>01B3FC-1C5912-278C9B-372045</td></ps≤12.5<></td></ps≤0.50<>	10.0 <ps≤12.5< td=""><td>01B3FC-1C5912-278C9B-372045</td></ps≤12.5<>	01B3FC-1C5912-278C9B-372045
0.50 <ps≤0.60< td=""><td>12.5<ps≤15.0< td=""><td>01B3FC-1C5954-278C9B-372045</td></ps≤15.0<></td></ps≤0.60<>	12.5 <ps≤15.0< td=""><td>01B3FC-1C5954-278C9B-372045</td></ps≤15.0<>	01B3FC-1C5954-278C9B-372045
0.60 <ps≤0.70< td=""><td>15<ps≤17.5< td=""><td>01B3FC-1C5986-278C9B-372045</td></ps≤17.5<></td></ps≤0.70<>	15 <ps≤17.5< td=""><td>01B3FC-1C5986-278C9B-372045</td></ps≤17.5<>	01B3FC-1C5986-278C9B-372045
0.70 <ps≤0.80< td=""><td>17.5<ps≤20.0< td=""><td>01B3FC-1C59C7-278C9B-372045</td></ps≤20.0<></td></ps≤0.80<>	17.5 <ps≤20.0< td=""><td>01B3FC-1C59C7-278C9B-372045</td></ps≤20.0<>	01B3FC-1C59C7-278C9B-372045



 represents E. S. P (External Static Pressure) range of factory setting.

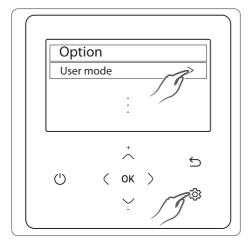
You don't have to adjust the fan speed separately if the external static pressure of the installation place is in

- . When it is out of \_\_\_\_\_, input the appropriate option code.
- If you input the inappropriate option code, an error may occur, or the mini-split is out of order. The option code must be input correctly by the installation specialist or service agent.

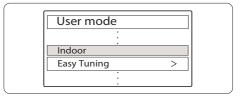
#### **EASY Tuning**

If more cooling and heating airflow rate is wanted, or if the quieter operation set is wanted, the mini-split can be tuned for comfort.

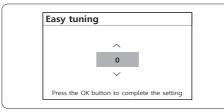
Indoor unit airflow rate for high, mid and low modes increases or decreases for +2  $\sim$  -2 Steps with wired controller.



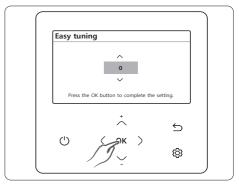
1 Press the ᠍ button.
(Main Menu) will be displayed, and you can press the
[△]/[✓] buttons to select User mode.



2 Press the [∧]/[∨] buttons to select Easy Tuning.



4 Press the [△]/[✓] buttons to select Easy tuning value (-2,-1,0,1,2) tuning.



5 Press the **OK** buttons to complete the Easy Tuning.

# NOTE

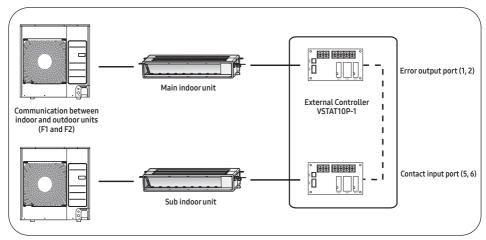
- Easy tuning value
  - Default : 0, reflecting the status value of the indoor unit.
  - Range: -2-+2 (unit:1)
- Press the button anytime during setup to exit without setting.
- When airflow is reduced using Easy Tuning, reduction in system performance is possible.

# Step 15 Optional: Setting the Emergency Temperature Output (ETO) function

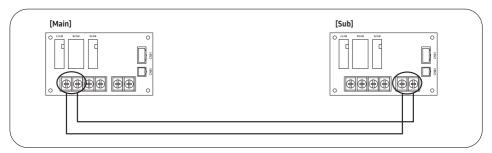
# **CAUTION**

- To deploy the ETO function, the VSTAT10P-1, an external contact interface module, must be installed in each indoor unit.
- To use the ETO function, should use Lennox Service Software.
- The ETO is a concept of emergency operation of indoor units. If indoor unit 1 (main indoor unit) stops because of an error, indoor unit 2 (sub-indoor unit) starts to operate.
- Basically, indoor unit 2 operates in the previous mode. [For the first time operation, it starts in 24 °C (75 °F) Auto mode.]
- To set more detailed operation conditions for the indoor unit 2, use the Lennox Service Software.

#### Setting up the ETO



- Main indoor unit
  - Disable the external contact control (Default).
  - Connect the Lennox Service Software to F1 and F2.
  - Enable the ETO function and set the temperature and time.
- 2 Sub indoor unit
  - (Required) Enable the external contact control (with the installation option SEG14 Reverse Control).
  - Connect the Lennox Service Software to F1 and F2.
  - Enable the entrance control and set the mode, set temperature, and fan speed.



### **ETO operation specifications**

See the details for SEG 14 and SEG 15 in the table titled '02 series installation option'.

#### 1 Main indoor unit

- Based on the external contact control settings, the main indoor unit decides whether to generate output when an error (indoor unit stop) occurs.
- Based on the ETO settings, the main indoor unit decides whether to generate output according to the temperature and time conditions.

#### 2 Sub indoor unit

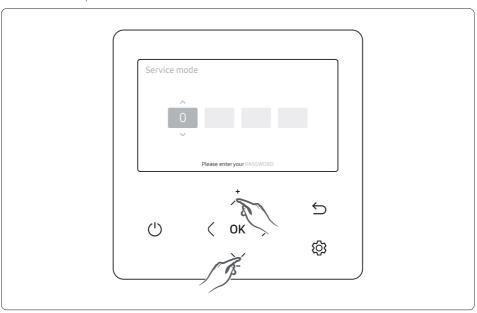
 Based on the entrance control settings, the sub-indoor unit decides the mode, set temperature, and fan speed when contact inputs are given.

	Enable ETO	Enable external contact	Error port output
	Χ	X	N/A
	X	0	Output due to an error
Main indoor unit	0	Х	Output by ETO entrance conditions (temperature / time / error occurrence)
	0	0	Output by ETO entrance conditions (temperature / time / error occurrence)  # Ready to control the main contact input

	Enable entrance control	Enable external contact	Operation when outputting the Main
Sub indoor unit	X	X	N/A
	X	0	On with the previous operation conditions
	0	0	On with the entrance control enabled

### Step 16 Setting the indoor unit option code with the wired controller

To set the indoor unit option code use the wired controller and follow the directions below.



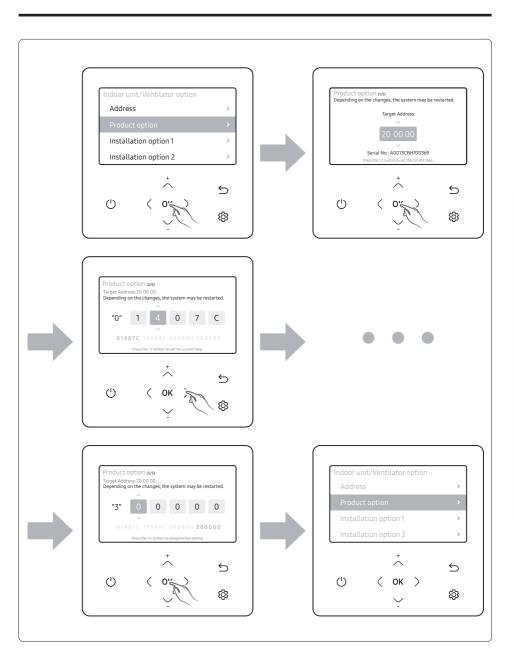
- 1 If you want to use the various additional functions for your Wired controller, press the and ✓ buttons at the same time for more than 3 seconds.
  - The password entry screen appears.
- 2 Enter the password, "0202," and then press the **OK** button.
  - The settings screen for installation/service mode appears.
- 3 See the list of additional functions for the Wired controller on the next page, and then select the Product option menu.
  - Once you have entered the settings screen, the current setting appears.
  - Refer to the chart for data setting.
  - Using the  $\wedge / \sim$  buttons, change the settings and press the  $\rangle$  button to move to the next setting.
  - Press the **OK** button to save the new setting.
  - Press the 

    button to move to the Home screen.

### NOTE

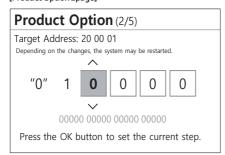
While setting the data, you can press the 

button to move to the Home screen after checking the saving status at a popup screen.

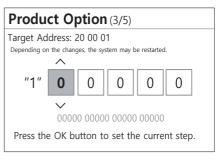




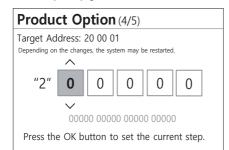
#### [Product Option 2page]



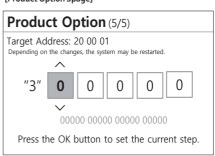
#### [Product Option 3page]



#### [Product Option 4page]



#### [Product Option 5page]



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

Page number



# **CAUTION**

- Option code will not be applied if you don't press the **OK** button.
- Setting the indoor unit option code is only possible in the Main wired controller. You can only check the indoor unit option code in Sub wired controller.
- Setting an indoor unit option code is possible when one indoor unit is connected. If more than 2 indoor units are connected, you can only check the Main indoor unit option code.

#### Step 17 Setting indoor unit addresses and installation options with wired controller

Set the indoor unit address and installation option with the remote control option. Set 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 the indoor unit address and installation option.

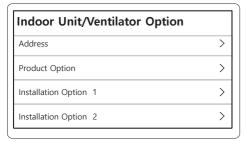
#### Setting an indoor unit address

- 1 If you want to use the various additional functions for your Wired controller, press the and buttons at the same time for more than 3 seconds.
  - The password entry screen appears.
- 2 Enter the password, "0202," and then press the **OK** button.
  - The settings screen for installation/service mode appears.
- 3 See the list of additional functions for the Wired controller on the next page, and then select the Address menu.
  - Once you have entered the settings screen, the current setting appears.
  - Refer to the chart for data setting.
  - Using the \( \setminus \) buttons, change the settings and press the \( \right) button to move to the next setting.
  - Press the **OK** button to save the new setting.
  - Press the ≤ button to move to the Home screen.

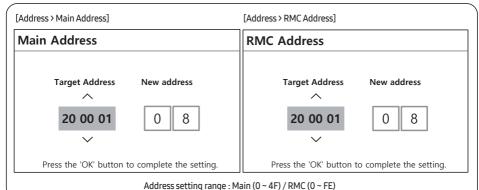
### NOTE

While setting the data, you can press the 

button to move to the Home screen after checking the saving status at a popup screen.



1	Address -Move to 'Address' page.
2	Product Option -Move to 'Product Option' page.
3	Installation Option 1 Move to 'Installation Option 1' page.
4	Installation Option 2 Move to 'Installation Option 2' page.



- NOTE
- Press the  $\leftrightarrows$  button anytime during setup to exit without setting.
- · Address will not be applied if you don't press OK button.
- Setting the Main/RMC Address of an Indoor unit is available only with a Main wired controller.

#### Setting an indoor unit installation option

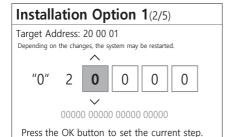
- 1 If you want to use the various additional functions for your Wired controller, press the → and ✓ buttons at the same time for more than 3 seconds.
  - The password entry screen appears.
- 2 Enter the password, "0202," and then press the **OK** button.
  - The settings screen for installation/service mode appears.
- 3 See the list of additional functions for the Wired controller on the next page, and then select the Installation Option 1 menu.
  - Once you have entered the settings screen, the current setting appears.
  - Refer to the chart for data setting.
  - Using the  $\wedge/\vee$  buttons, change the settings and press the button to move to the next setting.
  - Press the **OK** button to save the new setting.
  - Press the ≤ button to move to the Home screen.

### NOTE

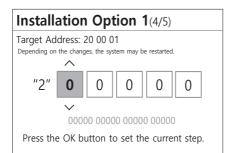
While setting the data, you can press the button to move to the Home screen after checking the saving status at a
pop-up screen.



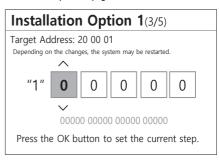
#### [Installation Option 1-2page]



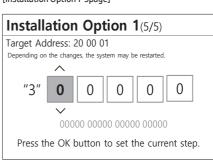
[Installation Option 1-4page]



#### [Installation Option 1-3page]



#### [Installation Option 1-5page]



SEG1	SEG2	SEG3	SEG4	SEG5	SEG6
0	2	RESERVED	External room temperature sensor / Minimizing fan operation when the thermostat is off	Central control	RESERVED
SEG7	SEG8	SEG8 SEG9 SEG10 SEG11		SEG11	SEG12
1	Drain pump & Emergency Stop	Hot Coil	Auxiliary heater	Controller variables for the auxiliary heater	RESERVED
SEG13	SEG14	SEG15	SEG16	SEG17	SEG18
2	External control	External control output	RESERVED	Buzzer	Maximum filter usage time
SEG19	SEG20	SEG21	SEG22	SEG23	SEG24
3	Individual control of a remote control	Heating setting compensation	RESERVED	Away Set OFF Timer	RESERVED

# NOTE

- Press **≤** button anytime during setup to exit without setting.
- Option code will not be applied if you don't press **OK** button.
- The setting Installation option code is available only with a Main wired controller.
- Setting Installation option code is available when there is one-on-one connection between a wired controller and an indoor
  unit.

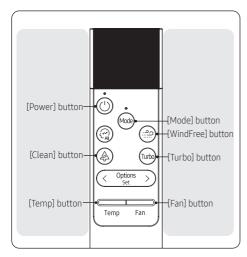
# Step 18 Optional: Setting the indoor unit addresses and the installation options with the wireless remote control

You cannot set both the indoor unit addresses and the installation options at the same time.

Receiver & display unit must be connected to the indoor unit to set options with the wireless remote control.

# Common steps for setting the addresses and options

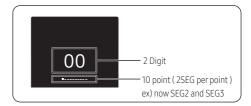
#### Remote controls



## NOTE

- The remote control display and buttons may vary depending on the model.
- 1 Enter the mode for setting the options.
  - **a** Reset remote control : [Temp] button Down + [Fan] button Down + [Mode] Press for 10 seconds.
  - **b** You can see the "SW Initialization" message and enter the following in 5 seconds.

- c Press [WindFree] button and [Turbo] button for 5 seconds.
- **d** Make sure that you are entered into the mode for setting options:



2 Set the option values.

# **!** CAUTION

- The total number of available options is 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.
- You can see 20 SEG (except SEG1, SEG7, SEG13, SEG19
   SEG2 → ...→ SEG6 → SEG8 → ....→ SEG12 → SEG14 → .... →
   SEG 18 → SEG20 → ... → SEG 24

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

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

### Take the steps presented in the following table:

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

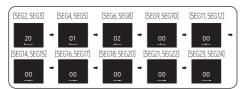
	Steps	Remote control display
5	Set the SEG6 and SEG8 values:  a Set the SEG6 value by pressing the remote control display.	00 
	b Set the SEG8 value by pressing the Fam button repeatedly until the value you want to set appears on the remote control display.  When you press the Fam or Fam button, values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

	Steps	Remote control display
9	Set the SEG11 and SEG12 values:  a Set the SEG11 value by pressing the Temp button repeatedly until the value you want to set appears on the remote control display.	00  SEG11
	<ul> <li>b Set the SEG12 value by pressing the  button repeatedly until the value you want to set appears on the remote control display.</li> <li>When you press the  or  temp button, values appear in the following order:</li> <li>□ • □ • □ • □</li> </ul>	00  SEG12
10	Press the we button to move to the next page.	00
11	Set the SEG14 and SEG15 values:  a Set the SEG14 value by pressing the Temp button repeatedly until the value you want to set appears on the remote control display.	00  SEG14
	<ul> <li>b Set the SEG15 value by pressing the Fan button repeatedly until the value you want to set appears on the remote control display.</li> <li>When you press the Fan or Temp button, values appear in the following order:</li> <li>□ • □ • □ • □</li> </ul>	00  SEG15
12	Press the web button to move to the next page.	00

Steps	Remote control display
<ul> <li>Set the SEG16 and SEG17 values:</li> <li>a Set the SEG16 value by pressing the Temp button repeatedly until the value you want to set appears on the remote control display.</li> </ul>	00 
<ul> <li>b Set the SEG17 value by pressing the  button repeatedly until the value you want to set appears on the remote control display.</li> <li>When you press the  or  button, values appear in the following order:</li> <li>□ → □ → … E → E</li> </ul>	00 
14 Press the we button to move to the next page.	00
<ul> <li>Set the SEG18 and SEG20 values:</li> <li>a Set the SEG18 value by pressing the Temp button repeatedly until the value you want to set appears on the remote control display.</li> </ul>	00  SEG18
<ul> <li>b Set the SEG20 value by pressing the  button repeatedly until the value you want to set appears on the remote control display.</li> <li>When you press the  or  button, values appear in the following order:</li></ul>	00  SEG20
16 Press the we button to move to the next page.	00

	Steps	Remote control display
17	Set the SEG21 and SEG22 values:  a Set the SEG21 value by pressing the temp button repeatedly until the value you want to set appears on the remote control display.	00
	<ul> <li>b Set the SEG22 value by pressing the Fan button repeatedly until the value you want to set appears on the remote control display.</li> <li>When you press the Fan or Temp button, values appear in the following order:</li> <li>□ • □ • □ • □</li> </ul>	SEG21  00 SEG22
18	Press the web button to move to the next page.	00
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.	00 SEG23
	<ul> <li>b Set the SEG24 value by pressing the  button repeatedly until the value you want to set appears on the remote control display.</li> <li>When you press the  button, values appear in the following order:</li></ul>	00 

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

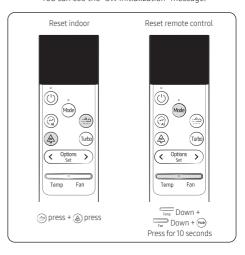


EX) MDDD\*\*\*S6-1P

#### 020010-120000-200000-300000

- 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 (b) button on the remote control twice.
  - Make sure that this command is received by the indoor unit. When it is successfully received, you can hear a short sound from the indoor unit. If the command is not received, press the (b) button again.
- 5 Check whether the mini-split operates following the option values you have set:
  - a Reset the indoor or outdoor unit.
    - Indoor Unit: Press button + button for
    - Outdoor Unit: Press the K3 button

**b** Reset remote control: Temp button Down + button Down + (Mode) Press for 10 seconds You can see the "SW Initialization" message.



#### Setting the installation options in a batch

#### Installation option No. for an installation options: 0XXXXX-1XXXXX-2XXXXX-3XXXXX

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 Set the installation options of indoor units, by referring to the following table and by following the steps in Common steps for setting the addresses and options on page 40.
  - The installation options of indoor units are set to like a below table by default.

Model	M*DD***S6-1P
Installation option 1	020010-120000-200000-300000
Installation option 2	050030-100710-200000-300000

• The SEG20 option, Individual control with remote control, allows you to control multiple indoor units individually by using the remote control.

### 02 series installation option (Detailed)

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

Option	SE	:G1		SEG2	SEG3	SEG4				
Explanation	PΑ	(GE		MODE				ternal room tempe an operation wher		
	Indication	Details	Indication	Details				De	etails	
							Indication	Use of external room temperature sensor	Minimizing fan operation when thermostat is off <sup>1)</sup>	
							0	Disuse	Disuse	
							1	Use	Disuse	
							2	Disuse	Use(Heating)	
							3	Use	Use(Heating)	
							4	Disuse	Use(Cooling)	
					RESERVED		5	Use	Use(Cooling)	
Indication and Details		O	2	Installation Option 1			6	Disuse	Use (Cooling/Heating)	
				Орионт			7	Use	Use (Cooling/Heating)	
							8	Disuse	Use (Cooling Ultra low speed)	
							9	Use	Use (Cooling Ultra low speed)	
							A	Disuse	Use (Heating/ Cooling Ultra low speed)	
						В	Use	Use (Heating/ Cooling Ultra low speed)		
Option	SE	:G5		SEG6	SEG7	SEG8				
Explanation	Use of cen	tral control			PAGE		Use of drain pump & Emergen		rgency Stop <sup>2)</sup>	
	Indication	Details			Indication	Details	Indication	De	tails	
	marcacion	Details			maleaton	Details	indicación:	Drain pump	Emergency Stop	
							0 or 4	Disuse		
	0	Disuse					1 or 5	Use	Disuse	
Indication and		הופתפק	RI	ESERVED			2 or 6	Use with 3min delay		
Details					1		3 or 7	Disuse		
					,		8 or C	Disuse		
	1	Llee					9 or D	Use		
	1	Use					A or E	Use with 3min delay	Use	
							B or F	Disuse		

Option	SEG9 SEG10 SEG11 SEG12											
Explanation	Use of I	Hot Coil	Use of a	auxiliary he	eater	Controll	er variables for auxi	liary heater				
	Indication	Details	Indication	Deta	ails		Deta	ils				
						Indication	Set temperature for auxiliary heat on	Time delay for auxiliary heat on				
	0	Disuse	0	Disu	ıse	0	No temperature offset	No delay				
		Disase	DISUSC				1	No temperature offset	10 minutes			
						2	No temperature offset	20 minutes				
Indication						3	2.7°F(1.5°C)	No delay	RESERVED			
and Details						4	2.7°F(1.5°C)	10 minutes				
and Details	1		1	Us		5	2.7°F(1.5°C)	20 minutes				
	'	Use	1	US	е	6	5.4°F(3°C)	No delay				
						7	5.4°F(3°C)	10 minutes				
						8	5.4°F(3°C)	20 minutes				
		-						9	8.1°F(4.5°C)	No delay		
	-			use, Heat		А	8.1°F(4.5°C)	10 minutes				
			2	delay (Fan On When the heater is running)		В	8.1°F(4.5°C)	20 minutes				
						С	10.8°F(6°C)	No delay				
						D	10.8°F(6°C)	10 minutes				
						E	10.8°F(6°C)	20 minutes				
Option	SEC	G13		SEG14 SEG15					SEG16			
Explanation	PA	GE	Use of e	external co	ntrol		Setting the output of external control					
	Indication	Details	Indication	Deta	ails	Indication Details						
	'		0	Disuse		0	0 Thermo on					
			1	On/Off	Sub, Existing		THEITIO OII					
			2	Off	Control	1	Operation on	eration on				
			3	Window		'	Орегасіон он					
			4	Disuse		2	External heater	use(Fan On wh	en the heater is running)			
			5	On/Off	Main, Existing		Emergency heat	ter disuse				
			6	Off	Control	3	External heater	use(Fan OFF w	hen the heater is running)			
Indication			7	Window		_	Emergency heat			RESERVED		
and Details		2	8	Disuse					en the heater is running,			
			9	On/Off	Sub, Reverse	4	Fan off only in co Emergency heat			_		
			A	Off	Control	5	External heater	use(Fan On wh	en the heater is running)			
			В	Window		)	Emergency heat	ter use				
			С	Disuse		6	External heater	use(Fan OFF w	hen the heater is running)			
			D	On/Off	Main,	0	Emergency heat	ter use				
			Е	Off	Reverse Control	7	External heater Fan off only in co		en the heater is running,			
			F	Window			Emergency heat					

Option	SE	G17	SEG18		SEG19		SEG20		
Explanation	Buzzer	control	Maximum	filter usage time <sup>3)</sup>	PAGE		Individual control with remote control		
	Indication	Details	Indication	Details	Indication	Details	Indication	Details	
Indication	0	Use of buzzer	2	1000 Hour			0 or1	Indoor1	
and Details					3		2	Indoor 2	
	1	Disuse	6	2000 Hour			3	Indoor 3	
							4	Indoor 4	
Option	SE	G21		SEG22	SEG23			SEG24	
Explanation		setting nsation			Away Set OFF Timer				
	Indication	Details			Indication	Deta	ails		
	0	Disuse	RI	ESERVED	0 or1	Auto Set O	FF 30Min.	RESERVED	
Indication and Details	1	3.6°F(2°C)			2	Auto Set O	FF 60Min.		
	2	00E(E0C)	9°F(5°C)		3	Auto Set OFF 120Min.			
	2	7 1 (3 C)			4	Auto Set Of	FF180Min.		

#### • 1) SEG4

By SEG4 setting, minimize fan operation when the thermostat is off.

- Fan operates for 20 seconds at an interval of 5 minutes in heat mode.
- Fan stops or operates Ultra low in Cooling when the thermostat is off.

#### • 2) SEG8

Emergency Stop: If you set Emergency Stop to [Use], it is not possible to use the ETO or On/Off Control feature through External Control (SEG14).

- 3) SEG18
- If you set the Maximum filter usage time option to a value other than 2 and 6, it is automatically set to 2 (1000 hours).
- 4) SEG20

If you set the Individual control with the remote control option to a value other than 0 to 4, it is automatically set to 0 (Indoor1)

#### 05 series installation option (Detailed)

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

SEG	EG1 SEG2			S	EG3			SEG4		SEG5	SEG6
Page Indication	Details	M Indication	Details Installation Option 2	Res	served		Reserved				Reserved
SEG	7	SI	EG8	S	EG9			SEG10		SEG11	SEG12
Page	<u> </u>	Heater	lock out	Heat pur	Heat pump lock out		Bit 0 : Allow Fan control in auto mode Bit 1 : Onboarding Type(AP / BLE) Bit 2 : MDS UX Type (Integration / separation)				
Indication	Details	Indication	Details	Indication	Details	Indication		Details			
		0	Disuse	0	Disuse	0	Not allow	Ap Onboarding	Integration UX		
		1	65°F(18.3°C)	1	45 °F(7.2 °C)	1	allow	Ap Onboarding	Integration UX	х	
		2	60 °F(15.6 °C)	2	40 °F(4.4 °C)	,	attow	7 tp Onboarding	integration ox		
		3	55 °F(12.8 °C)	3	35 °F(1.7 °C)	2 Not allow BLE Onboarding Integration UX	Not allow BLE Onboarding Integration UX	Not allow BLE Ophoarding Integration LIV			
		4	50 °F(10.0 °C)	4	30 °F(-1.1 °C)	-	TVOCULOW	DEE ONDOGRAMING	integration ox		Reserved
		5	45 °F(7.2 °C)	5	25 °F(-3.9 °C)	3	allow	ow BLE Onboarding	Integration UX		
		6	40 °F(4.4 °C)	6	20 °F(-6.7 °C)						
1		7	35 °F(1.7 °C)	7	15 °F(-9.4 °C)	4	Not allow	Ap Onboarding	Separation UX		
		8	30 °F(-1.1 °C)	8	10 °F(-12.2 °C)				Separation ox		
		9	25 °F(-3.9 °C)	9	5 °F(-15 °C)		allow	w Ap Onboarding	Separation UX		
		А	20 °F(-6.7 °C)	А	0 °F(-17.8 °C)		attow				
		В	15 °F(-9.4 °C)	В	-5 °F(-20.6 °C)	6	Not allow	BLE Onboarding	Separation UX		
		С	10 °F(-12.2 °C)	С	-10 °F(-23 °C)		TVOCULOW	DEE ONDOGRAMING	Separation ox		
		D	5 °F(-15 °C)	D	-15 °F(-26 °C)	7	allow	BLE Onboarding	Separation UX		
		E	0 °F(-17.8 °C)	E	-20 °F(-29 °C)	,	0	DEE ONDOGRAMIS	Separation on		
SEG1	3	SE	G14	SE	EG15			SEG16		SEG17	SEG18
Page Indication	Details	Res	erved	Res	served	Reserved			Reserved	Reserved	
SEG1	9	SE	SEG20 SEG21		EG21	SEG22				SEG23	SEG24
Page Indication	Details	Reserved		Res	served	Reserved			Reserved	Reserved	

### 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 40.

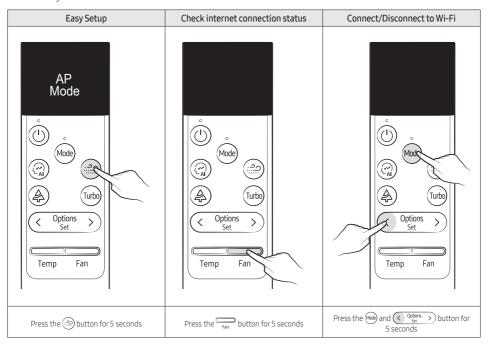
Option	SEG1		SEG2 SEG		3	SEG4		SEG5		SEG6		
Function	Page		Mode Option mode to change		Tens position of the option number		Units position of the option number		New value			
	Indication	Details	Indication	Details	Indication	Details	Indication	Details	Indication	Details	Indication	Details
Indication and details	0		D		Option type	0 to F	Tens position value	0 to 9	Units position value	0 to 9	New value	0 to F

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

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

# Step 19 Optional: LED Display indicator specifications when checking Wi-Fi Easy Setup and Wi-Fi status

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



### **LED indicator Status**

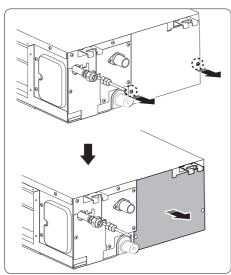
			Indica	tors				
	On / Off	n / Off Timer Fan Filter sign			Note	Action		
	(1)	<b>(1)</b>	<b>₽</b>					
	AP Entry	•	•	•	•	All LEDs turn On		
	Device Check	•	•	•	•	All LEDs Flashing		
Easy Setup	Device Registration	0 0		•	•	LEDs Flashing sequentially (On/Off → Timer → Fan → Filter sign)		
	Connection success	•	•	•	•	All LEDs Flashing(During 3SEC)		
	Connection failed	Х	Х	Х	Х	All LEDs turn Off and operate in the original mode	AP setting, Wi-Fi module replacement	
Check your	AP, when connected to the Internet normally	•	•	•	•	All LEDs turn On (During 5SEC)	Use normally	
connection	When not connected to AP	X	Х	Х	Х	All LEDs turn Off (During 5SEC)	AP setting, Wi-Fi module replacement	
Wi-Fi	When connected	•	•	•	•	All LEDs flash one time	-	
function	When disconnected	•	•	•	•	All LEDS flash one time	-	
When setting AP with wired controller		•	•	•	•	All LEDs Flashing (MAX10Min)		
Initialize connection information		•	•	•	•	LEDs Flashing sequentially (On/Off → Timer → Fan → Filter sign)	-	
Initialize the o	•	•	•	•	LEDs Flashing sequentially (Filter sign → Fan → Timer → On/ Off)	-		

### Step 20 Wi-Fi module Reinstallation guide

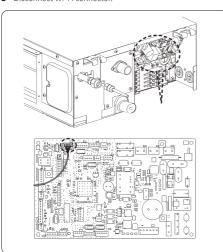
In some cases, the Wi-Fi module may need to be removed and relocated to improve the Wi-Fi signal connection.

#### MMDD\*\*\*S6-1P

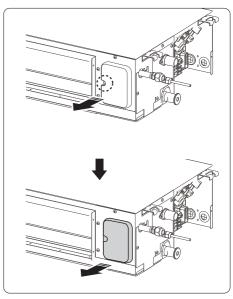
1 Disassemble two screws and remove the Cover control.



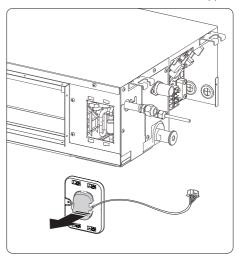
2 Disconnect Wi-Fi connector.



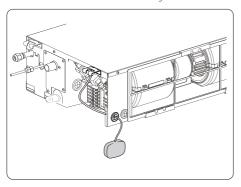
3 Remove one screw and remove the Cover case.



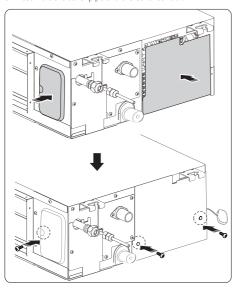
4 Pull the Wi-Fi wire through the wiring hole, and then take out the Wi-Fi module from the back side of the Cover pipe.



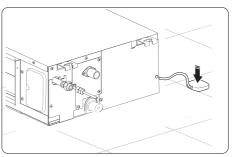
**5** Connect the Wi-Fi wire connector through the wire hole.



- If length extension is required, use an enclosed wire (Accessory bag).
- **6** Assemble the cover pipe and the Cover control.

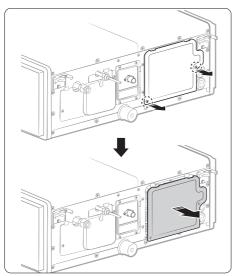


**7** Fix the Wi-Fi module to the Ceiling to avoid the steel structure.

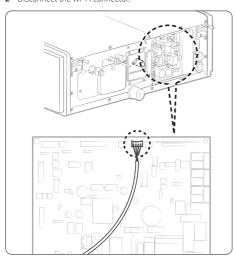


#### MDDD\*\*\*S6-1P

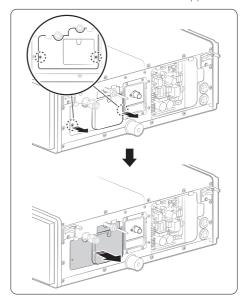
1 Disassemble two screws and remove the Cover control.



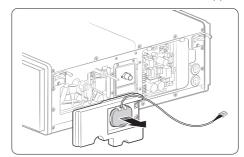
2 Disconnect the Wi-Fi connector.



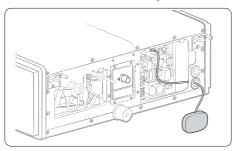
3 Disassemble two screws and remove the cover pipe.



**4** Pull out the Wi-Fi wire through the wire hole, and then take out the Wi-Fi module from the back side of the Cover pipe.

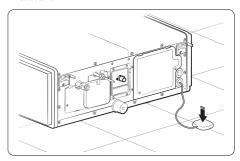


5 Connect the Wi-Fi wire connector through the wire hole .

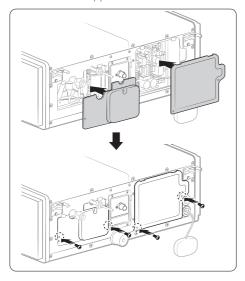


- If length extension is required, use an enclosed wire (Accessory bag).

**7** Fix the Wi-Fi module to the Ceiling to avoid the steel structure.



**6** Assemble the cover pipe and Cover control .



# **Troubleshooting**

- If an error occurs during the operation, one or more LEDs flicker and the operation is stopped except the LED.
- If you re-operate the mini-split, it operates normally at first, then detects an error again.

Abnormal conditions		ı				
		(1)		<b>%</b>		Remarks
		Red				
Power reset	•	Х	Х	Х	Х	
Error of Room sensor in the indoor unit(Open/Short)	Х	Х	•	Х	Х	
Error of EVA-IN, EVA-OUT sensor in the indoor unit(Open/Short)		х	•	Х	х	
Error of Fan motor in the indoor unit		Х	Х	•	Х	
Error of Outdoor or Indoor fan PCB overheating error	Х	х	•	•	•	
Clogging of outdoor's service valve	•	Х	Х	•	•	
Detection of the float switch     Emergency alarm system on(Emergency Stop)	х	Х	х	•	•	
Error of EEPROM or OPTION SETTING	•	•	•	•	•	
1. No communication for 2 minutes between indoor units (Communication error for more than 2 minutes) 2. The Indoor unit receiving the communication error from the outdoor unit 3. Outdoor unit tracking 3 minutes error 4. When sending the communication error from the outdoor unit, the mismatching of the communication numbers and installed numbers after completion of tracking. (Communication error for more than 2 minutes)	X	X	•	•	X	1. Indoor unit error (Display is unrelated to operation) 2. Outdoor unit error (Display is unrelated to operation)

On Flickering X Off

• If you turn off the mini-split when the LED is flickering, the LED is also turned off.

• If an error occurs, 👔 is displayed on the wired controller. If you would like to see an error code, press the Test button.

Display	Explanation	Remark
888	Communication Error between indoor and outdoor unit	
888	Indoor fan PCB overheating error	
888	Error of Room sensor in the indoor unit (Open/Short)	
888	Error of Eva In sensor in the indoor unit (Open/Short)	
888	Error of Eva Out sensor in the indoor unit (Open/Short)	
888	2nd Detection of the float switch	
888	Error of Fan motor in the indoor unit	
888	EEPROM error	
888	EEPROM option setting error	
808	No communication for 2 minutes between indoor units (Communication error for more than 2 minutes)	
888	Clogging of outdoor service valve	
558	Option code miss matching among the indoors (only for DPM)	Check the indoor option code
888	Error of communication between the indoor unit and wired controller after 3 minutes.	
888	Error of communication between the indoor unit and wired controller after completion of 10 times tracking.	Wired controller error
888	COM1/COM2 Cross-installed error	
888	Error of Main wired controller and Sub wired controller setting	
888	Emergency alarm system on (Emergency Stop)	

