



AHU Control Unit (ACU) Installation manual

MXD-U001XN

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

SAMSUNG





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This marking on the product, accessories or literature indicates that the product and its electronic accessories (e.g. charger, headset, USB cable) should not be disposed of with other household waste. For correct disposal of this product, please visit <http://www.samsung.com/weee.pdf>





Safety Information

California Proposition 65 Warning (US)

⚠ WARNING: Cancer and Reproductive Harm - www.P65Warnings.ca.gov.

This installation manual explains how to install a AHU Control Unit (ACU) connected to your system air conditioner. Please read this manual thoroughly before installing the product. (Please refer to appropriate installation for any optional product installation.)

This device complies with Industry Canada license exempt RSS standard(s). Operation is subject to the following two conditions: (1) this device may not cause harmful interference and (2) this device must accept any interference received, including interference that may cause undesired operation. This Class B digital apparatus complies with Canadian ICES-003.

This equipment complies with FCC and IC RSS-102 radiation exposure limits for an uncontrolled environment. This equipment should be installed and operated with a minimum distance of 23.62 inches (600mm) between the radiator & your body. Any changes or modifications not expressly approved by the manufacturer could void the manufacturer's warranty.

This device and its antenna(s) must not be co-located or operated with any other antenna or transmitter.

⚠ 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.

⚠ WARNING

Turn off the power before installation, service, and cleaning.

Contact a service centre for installation.

- Potential risk of malfunction, water leak, electric shock and fire.

Install the product on a hard and even place that can support its weight.

- If the place cannot support its weight, the product may fall down and it may cause product damage.

Install the product with proper power supply.

- Potential risk of fire or product damage.

Do not move or reinstall the product on your discretion.

- Potential risk of electric shock or fire.

Consult the place of purchase or a contact centre to disassemble or repair the product.

- Potential risk of malfunction, electric shock, or fire.

Check if the installation work is done correctly according to the installation manual.

- Incorrect installation may cause electric shock or fire.

The electric work must be done by qualified person according to national wiring regulations and installation guide.

- If an unauthorized person performs the installation, any resulting defects can cause malfunctions, electrical shocks, or fire accidents.

When you want to dispose your AHU Control Unit (ACU), ask the service centre.

⚠ CAUTION

Do not install the product where there's combustible gas.

- Potential risk of fire and explosion.

Do not install the product in areas exposed to oil or vapor.

- Potential risk of product damage or malfunction.

Ensure no water gets into the AHU Control Unit (ACU).

- Potential risk of electric shock or fire.

Do not put undue stress on the power cable.

- Potential risk of broken cable and fire.

Do not install the product in areas with frequent use of acid or alkali spray.

- Potential risk of electric shock or product malfunction.

Do not handle the product with sharp objects.

- Potential risk of electric shock or product damage.

Do not connect power cable to a communication terminal.

- Potential risk of fire.

Be cautious not to interfere any other electrical devices if the product is installed in a place such as hospital.

- Potential risk of product malfunction.





Safety Information

Samsung gives notice of the following legal disclaimer.

Information on performance regarding the Basic Model Group(BMG) can be obtained from AHRI (Air-Conditioning, Heating, and Refrigeration Institute). Performance registered in ICM (Independent Coil Manufacturers) can be guaranteed fully by members of ICM. Partial system changes or performance changes are not provided by SAMSUNG or members of ICM. Refer to the table below for information regarding compatibility.

Allowable indoor unit coil volume

Capacity (tons)	Model	Minimum Coil Volume [in ³ (L)]	Maximum Coil Volume [in ³ (L)]
2	AC024FCUDCG	104(1.7)	240(3.9)
3	AC036FCUDCG	104(1.7)	240(3.9)
4	AC048FCUDCG	138(2.3)	300(4.9)
5	AC060FCUDCG	158(2.6)	356(5.8)
2	AC024FCUPCG	138(2.3)	300(4.9)
3	AC036FCUPCG	158(2.6)	356(5.8)
4	AC048FCUPCG	158(2.6)	356(5.8)
5	AC060FCUPCG	158(2.6)	356(5.8)



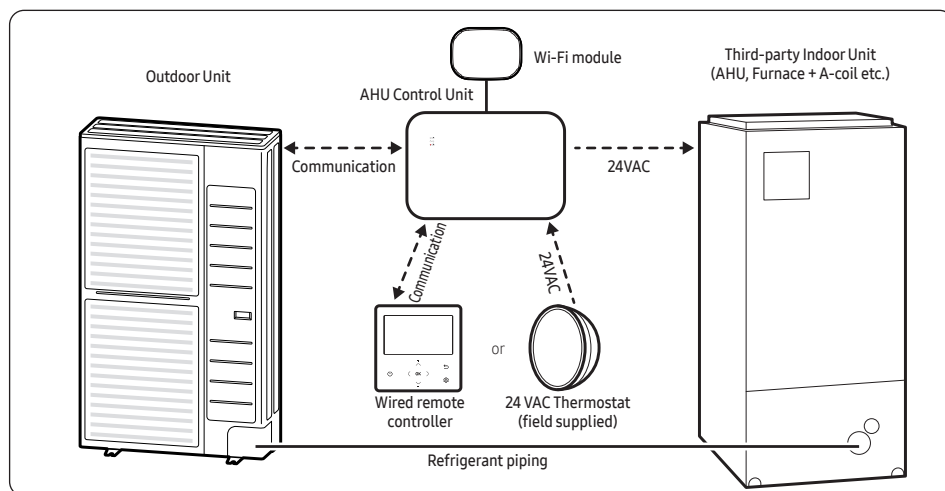


Before Installation

Functions of the AHU Control Unit (ACU)

- The AHU Control Unit (ACU) controls the system based on input signals from a 24VAC thermostat.
- With the wired remote control instead of a 24VAC thermostat, the system can be controlled more precisely.
- The AHU Control Unit (ACU) provides 24 VAC output signals for the thermostat to the third-party indoor unit. See page 7 for the circuit diagram for the AHU Control Unit (ACU).

Structure Diagram of the AHU Control Unit (ACU)



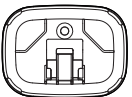
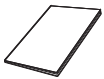
Before Installation



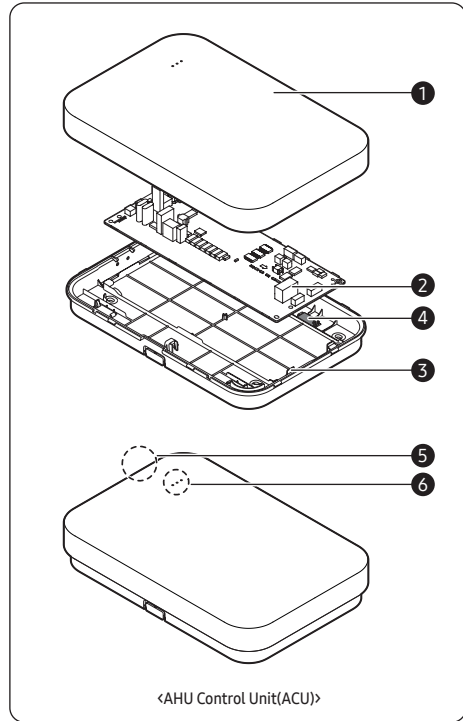


Installation

Accessories

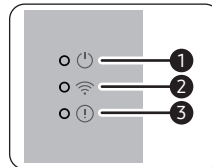
AHU Control Unit(ACU)	Wi-Fi Module
	
Wi-Fi Module holder (1)	Cable tie (2)
	
M4x16 screw(5)	Holder lock(5)
	
U-ring (24)	Fan speed control wire (1)
	
Wi-Fi connecting extension Wire (1)	Float switch wire (1)
	
Installation manual (1)	Wire label (1)
	

AHU Control Unit(ACU) Overview



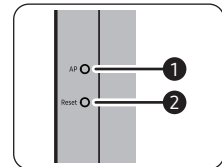
- 1 Front cover
- 2 PCB
- 3 Rear cover
- 4 Magnet
- 5 Button
- 6 Display

Display

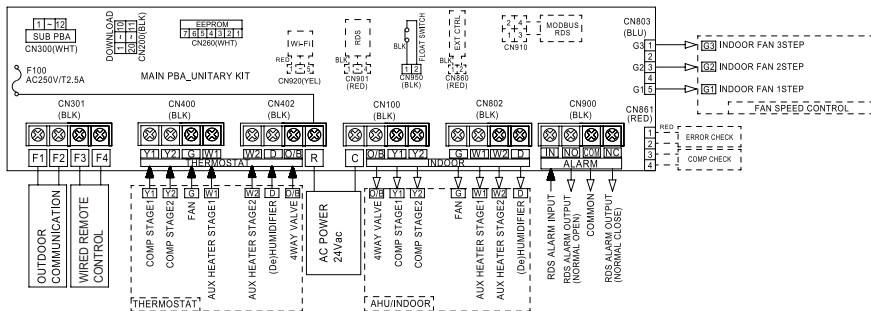


- 1 Power indicator
- 2 Wi-Fi indicator
- 3 Error indicator

Button



- 1 Easy setup / Connection info reset
- 2 ACU reset



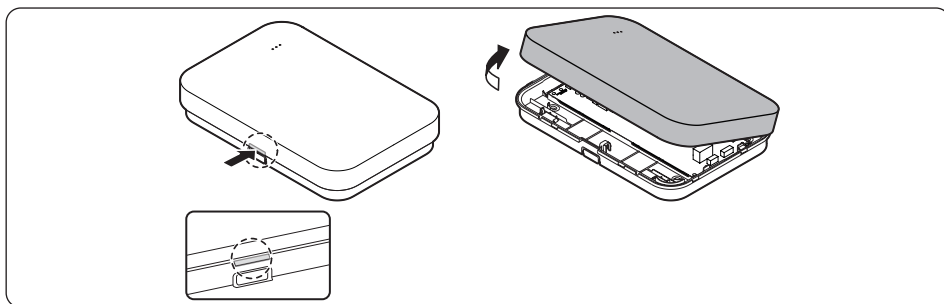


Installation

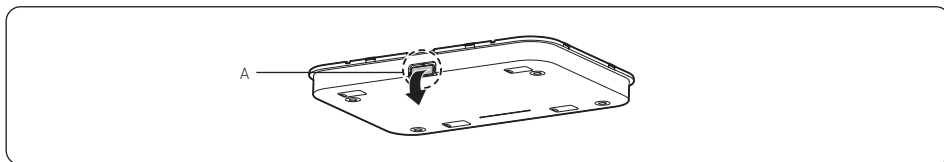
Installation

CAUTION

- The AHU Control Unit (ACU) should be installed by a qualified person, according to the relevant local wiring regulations and this installation manual.
 - Turn off the power before connecting the terminals.
 - Install wires according to the relevant electrical wiring regulations. Ensure that the wires are installed inside the indoor unit or on a wall near the indoor unit, to prevent access by users.
 - Do not install the AHU Control Unit (ACU) outdoors.
 - Do not install the AHU Control Unit (ACU) in a location with direct sunlight or a location with a risk that the AHU Control Unit (ACU) may come into contact with liquid or may be impacted.
 - Close the AHU Control Unit (ACU) securely.
- 1 Pull the middle area up to open the front cover, as shown in the figure.

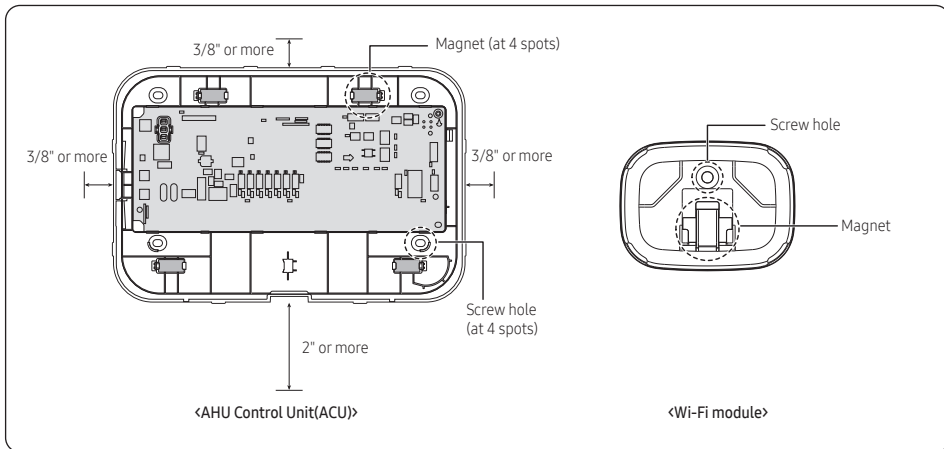


- 2 Before affixing the AHU Control Unit (ACU), remove area A on the rear cover as shown in the figure below. Insert wires into this opening.

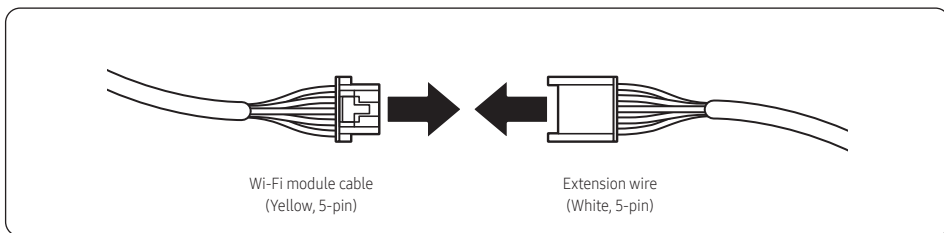




- 3 The magnets attached to the rear cover of AHU Control Unit(ACU) and Wi-Fi module holder can be used to fix the device to the indoor unit. If the device cannot be fixed properly with the magnets, use the supplied screws to fix to the unit or a nearby structure.
- Before attaching the rear cover of AHU Control Unit(ACU) and Wi-Fi module holder, ensure there are gaps of at least 3/8" along the top and the left and right sides of the device and a gap of at least 2" along the bottom.



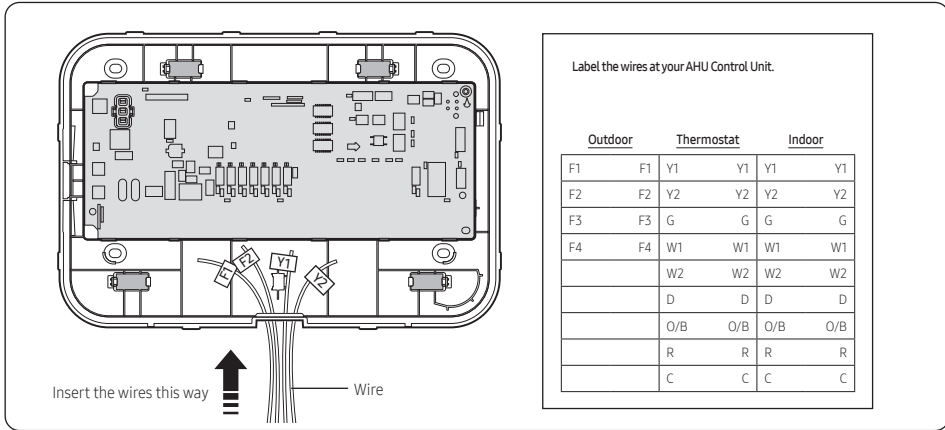
- The distance between AHU Control Unit(ACU) and Wi-Fi module should not be exceeded beyond the length of the supplied wire.
- In some cases, the Wi-Fi module may need to be relocated to improve the Wi-Fi signal connection.
- If the length extension is required, use an enclosed Wi-Fi connecting extension wire. Connect white housing of the wire to the wire of Wi-Fi module(yellow, 5-pin).





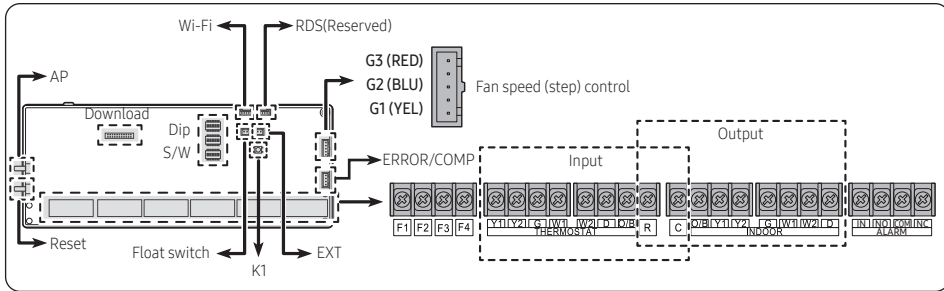
Installation

- 4 Insert the wires into the device by passing them through the opening created in step 2.
- 5 Use the supplied labels to label the wires before connecting to the corresponding terminals.





- 6 Connect the wires to the corresponding terminal blocks and connectors. For wiring instructions, refer to wiring diagrams on page 15 to 21.



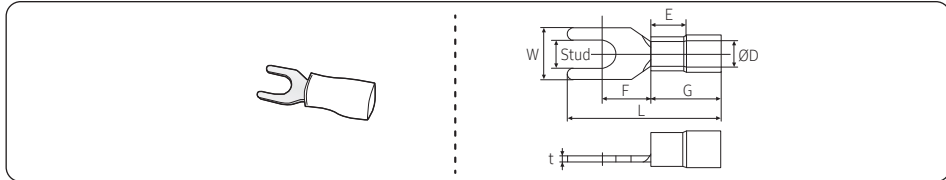
Name	Description	
Terminal Block	F1	Outdoor unit communication
	F2	Outdoor unit communication
	F3	Wired remote control
	F4	Wired remote control
	Y1	Compressor Stage 1
	Y2	Compressor Stage 2
	G	Indoor fan
	W1	Auxiliary heater Stage 1
	W2	Auxiliary heater Stage 2
	D	(De)humidifier
	O/B	4-way reversing valve
	R	AC Power 24 V
	C	AC Power 24 V
	IN	RDS Alarm Input(AC24V)
	NO	RDS Alarm output(Normal Open)
	COM	Common
	NC	RDS Alarm output(Normal Close)
Port	Wi-Fi	Wi-Fi port
	RDS	Reserved(Refrigerant Detection System)
	Float switch	Float switch port
	EXT	Input port for external contact control
	ERROR/COMP	Contact output port for error and compressor operation check
	G1	Fan speed (step) control, YEL
	G2	Fan speed (step) control, BLU
	G3	Fan speed (step) control, RED





Installation

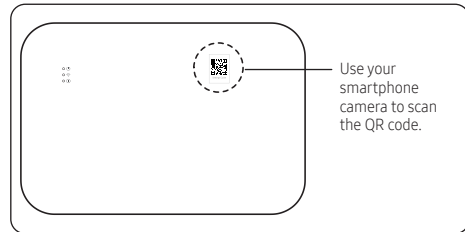
Compression ring terminal specifications for connection to the AHU Control Unit (ACU) PCB.



Range of Permitted Wires		Rated Size	Stud Size	Basic Size [inch (mm)]						
AWG	inch ² (mm ²)	inch ² (mm ²)	inch (mm)	t	ØD	G	E	F	W	L
22 to 16	0.0003 to 0.0025 (0.25 to 1.65)	0.0023 (1.5)	0.1181 (3)	0.0275 (0.7)	0.1496 (3.8)	0.3937 (10.0)	0.1771 (4.5)	0.2559 (6.5)	0.2362 (6.0)	0.8346 (21.2)

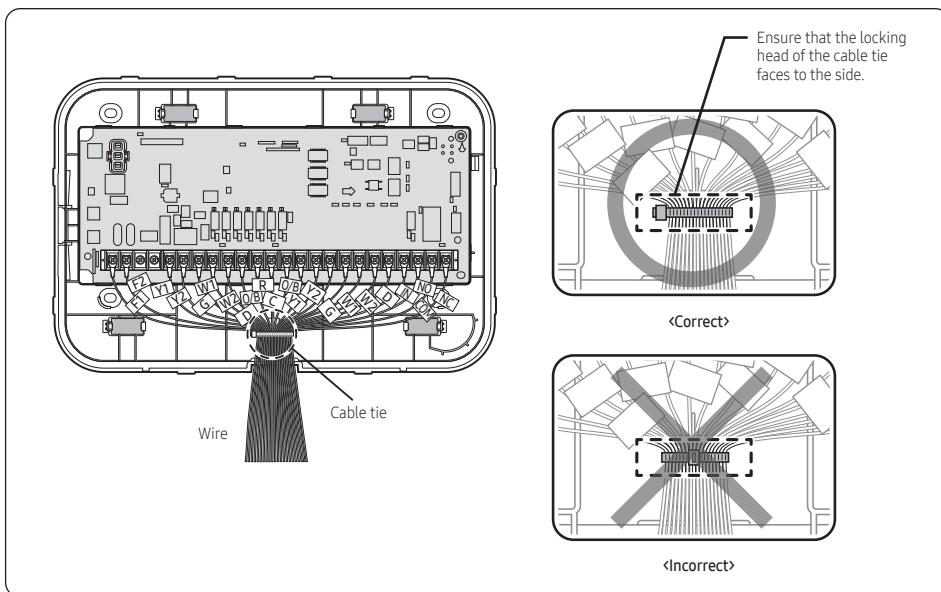
- F1, F2 communication wire: Maximum distance from outdoor unit to the ACU: 328 ft (100m)
- F1, F2 communication wires: 18 AWG solid core

- 7 Set the DIP switches to fit the application requirements. Scan the QR code attached to the front cover of the AHU Control Unit (ACU) using a smartphone camera to use an on-line system configuration wizard. For further information about DIP switch settings, refer to the Option Setting on page 22 to 27.

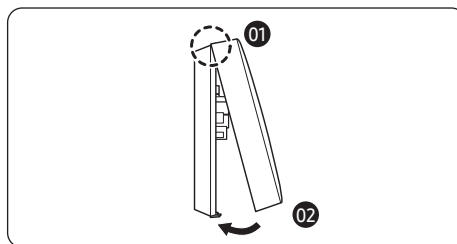




- 8 Pass the supplied cable tie through the wire organizer loop, secure the wires connected to the terminal blocks. Ensure that the locking head of the cable tie faces the side.



- 9 Align the front cover with the top of the AHU Control Unit (ACU) body, and then close the front cover.



NOTE

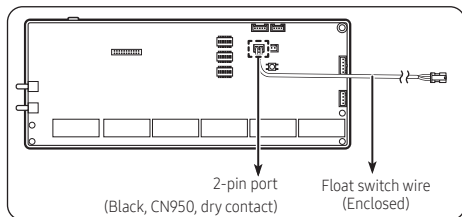
- After assembly, make sure that no wires are caught in the gap between the front and rear covers.



Installation

Optional : Installing an external float switch

To install an external drain pump (commercially available) that removes condensate generated in the indoor unit



- 1 Connect the enclosed float switch wire to the 2-pin port (Black, CN950, dry contact).
- 2 If the wire for the external float switch to be attached to the product is not compatible with the float switch port on the indoor unit main PBA, cut off the end of the cable before connecting it to the port.

NOTE

- An external float switch can be purchased from your local distributor.

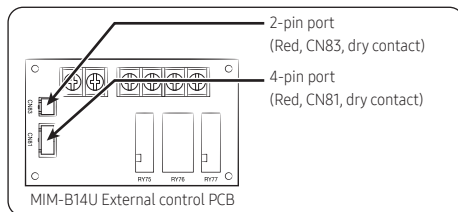
Optional : Installing an external controller

In order to deploy the 3rd party function, the MIM-B14U, an external contact interface module, must be connected to AHU Control Unit (ACU).

Accessories (External controller : MIM-B14U)

PCB	PCB Case
4-pin wire	2-pin wire
Screw	

- 1 Fix the case to the indoor unit or a nearby structure not exceeded beyond the length of the supplied wire for connecting with AHU Control Unit (ACU).
- 2 Attach the PCB in the PCB Case.
- 3 Connect the enclosed wires for the corresponding ports.
 - Connect 2-pin wire between the external controller PCB CN83 and AHU Control Unit (ACU) EXT port (CN860).
 - Connect 4-pin wire between the external controller PCB CN81 and AHU Control Unit (ACU) ERROR/COMP port (CN861).





Wiring Diagram

Wiring

- The AHU Control Unit (ACU) must be powered by the same transformer as the indoor unit. If more than one transformer is used, product damage will occur.
- Maximum power consumption of the AHU Control Unit(ACU) is 3W.
- If a 1-stage thermostat is used, connect the Y output to either the Y1 or Y2 input terminal on the AHU Control Unit (ACU). Use a separate jumper wire to connect Y1 to Y2 of the AHU Control Unit (ACU).
- If the indoor unit only has a Y input terminal, connect it to the Y1 output terminal in the AHU Control Unit (ACU).
- Connect powers R and C of the AHU control unit directly to input terminals R and C of the refrigerant detector PBA or to the 24V output terminal of the transformer. If connected to output terminals R and C of the thermostat, adequate control cannot be performed upon detection of a refrigerant leak.



CAUTION

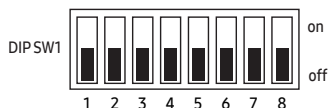
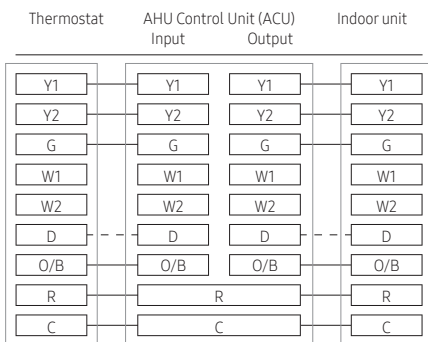
- Turn off the power before connecting the terminals.
- Use appropriate tools for wiring. Be sure to connect the wires tightly using a tightening torque less than the standard torque, to withstand external pressure.
- Screws on the PCB terminal must be tightened with less than a 0.53 lbf-in (6 N-cm) tightening torque. If a greater tightening torque is used, the screw thread may become damaged.
- After connecting the terminals, organize the wires properly to prevent overheating, electric shock or fire.
- Make sure that only 24 VAC is connected to the terminal blocks of the AHU Control Unit (ACU). Samsung is not responsible for any accident resulting from use of power that is not 24 VAC.



Installation

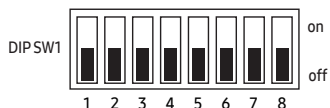
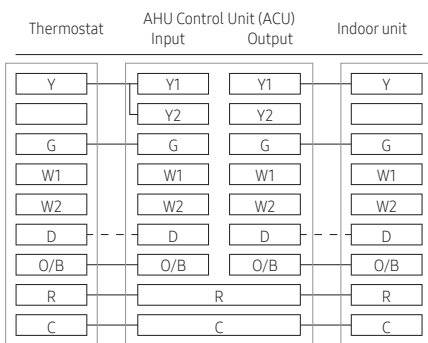
AHU with Heat Pump Configuration

2 Stage Thermostat, 2 Stage AHU



- Please review the Option Settings section for additional system option settings.
- If the system is used as a heat pump and there is no auxiliary heater, configure the thermostat as a 2 stage heat pump and configure the 4-Way reversing valve to B.
- Connection of the dehumidification (D) terminal is optional. If the thermostat and the AHU/furnace supports a dehumidification signal, the outdoor unit and AHU Control Unit (ACU) will adjust operation to optimize dehumidification.
- Connect terminals R and C of the indoor unit to the 24V input terminal of the PBA or to output terminals R and C of the transformer, not output terminals R and C of the thermostat.

1 Stage Thermostat, 1 Stage AHU

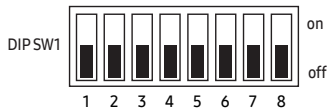
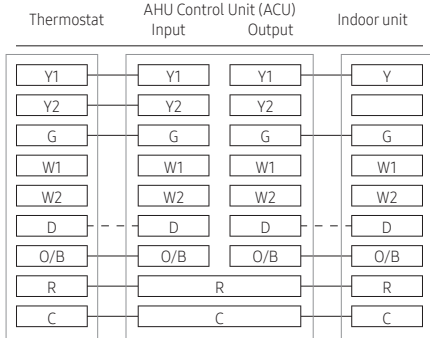


- Please review the Option Settings section for additional system option settings.
- If the system is used as a heat pump and there is no auxiliary heater, configure the thermostat as a 1 stage heat pump and configure the 4-Way reversing valve to B.
- If a single stage(1-stage) thermostat is used, connect the Y output to either the Y1 or Y2 input terminal on the AHU Control Unit (ACU). Use a separate jumper wire to connect Y1 to Y2 of the AHU Control Unit (ACU).
- If the indoor unit only has a Y input terminal, connect it to the Y1 output terminal in the Indoor section of the AHU Control Unit (ACU).
- Connection of the dehumidification (D) terminal is optional. If the thermostat and the AHU/furnace supports a dehumidification signal, the outdoor unit and AHU Control Unit (ACU) will adjust operation to optimize dehumidification.
- Connect terminals R and C of the indoor unit to the 24V input terminal of the PBA or to output terminals R and C of the transformer, not output terminals R and C of the thermostat.



AHU with Heat Pump Configuration (continued)

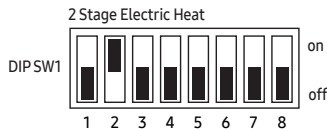
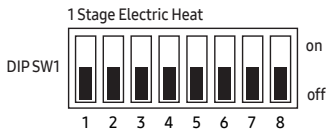
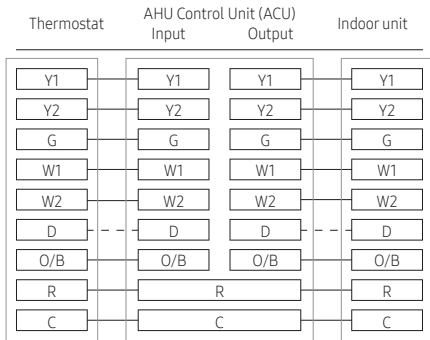
2 Stage Thermostat, 1 Stage AHU



- Please review the Option Settings section for additional system option settings.
- If the system is used as a heat pump and there is no auxiliary heater, configure the thermostat as a 2 stage heat pump and configure the 4-Way reversing valve to B.
- If the indoor unit only has a Y input terminal, connect it to the Y1 output terminal in the Indoor section of the AHU Control Unit (ACU).
- Connection of the dehumidification (D) terminal is optional. If the thermostat and the AHU/furnace supports a dehumidification signal, the outdoor unit and AHU Control Unit (ACU) will adjust operation to optimize dehumidification.
- Connect terminals R and C of the indoor unit to the 24V input terminal of the PBA or to output terminals R and C of the transformer, not output terminals R and C of the thermostat.

AHU + Electric Heat with Heat Pump Configuration

2 Stage Thermostat, 2 Stage AHU



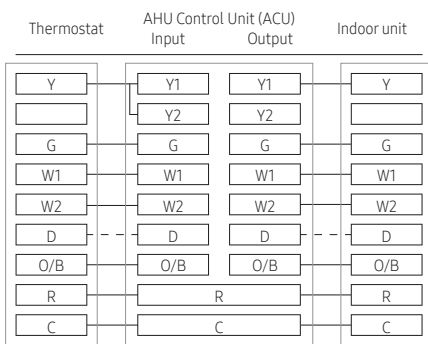
- Please review the Option Settings section for additional system option settings.
- If an auxiliary heater is installed and the heater can operate simultaneously with the heat-pump, configure the thermostat as a 2 stage heat pump and configure the 4-way reversing valve to B. If a W1 or W2 signal is input, the heat-pump and auxiliary heater can operate simultaneously.
- Connection of the dehumidification (D) terminal is optional. If the thermostat and the AHU/furnace supports a dehumidification signal, the outdoor unit and AHU Control Unit (ACU) will adjust operation to optimize dehumidification.
- Connect terminals R and C of the indoor unit to the 24V input terminal of the PBA or to output terminals R and C of the transformer, not output terminals R and C of the thermostat.



Installation

AHU + Electric Heat with Heat Pump Configuration (continued)

1 Stage Thermostat, 1 Stage AHU

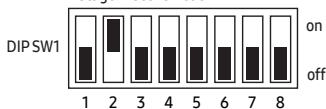


- Please review the Option Settings section for additional system option settings.
- If an auxiliary heater is installed and the heater can operate simultaneously with the heat-pump, configure the thermostat as a 1 stage heat pump and configure the 4-way reversing valve to B. If a W1 or W2 signal is input, the heat-pump and auxiliary heater can operate simultaneously.
- If a single stage(1-stage) thermostat is used, connect the Y output to either the Y1 or Y2 input terminal on the AHU Control Unit (ACU). Use a separate jumper wire to connect Y1 to Y2 of the AHU Control Unit (ACU).
- If the indoor unit only has a Y input terminal, connect it to the Y1 output terminal in the Indoor section of the AHU Control Unit (ACU).
- Connection of the dehumidification (D) terminal is optional. If the thermostat and the AHU/furnace supports a dehumidification signal, the outdoor unit and AHU Control Unit (ACU) will adjust operation to optimize dehumidification.
- Connect terminals R and C of the indoor unit to the 24V input terminal of the PBA or to output terminals R and C of the transformer, not output terminals R and C of the thermostat.

1 Stage Electric Heat



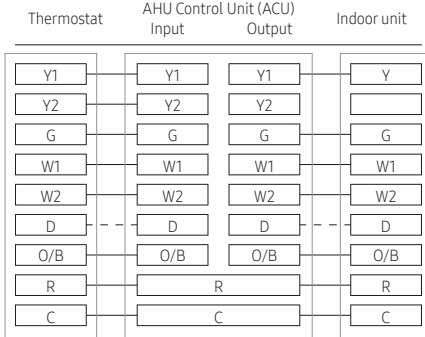
2 Stage Electric Heat





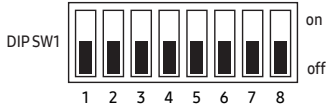
AHU + Electric Heat with Heat Pump Configuration (continued)

2 Stage Thermostat, 1 Stage AHU

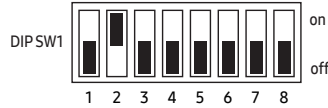


- Please review the Option Settings section for additional system option settings.
- If an auxiliary heater is installed and the heater can operate simultaneously with the heat-pump, configure the thermostat as a 2 stage heat pump and configure the 4-way reversing valve to B. If a W1 or W2 signal is input, the heat-pump and auxiliary heater can operate simultaneously.
- If the indoor unit only has a Y input terminal, connect it to the Y1 output terminal in the Indoor section of the AHU Control Unit (ACU).
- Connection of the dehumidification (D) terminal is optional. If the thermostat and the AHU/furnace supports a dehumidification signal, the outdoor unit and AHU Control Unit (ACU) will adjust operation to optimize dehumidification.
- Connect terminals R and C of the indoor unit to the 24V input terminal of the PBA or to output terminals R and C of the transformer, not output terminals R and C of the thermostat.

1 Stage Electric Heat



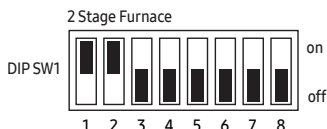
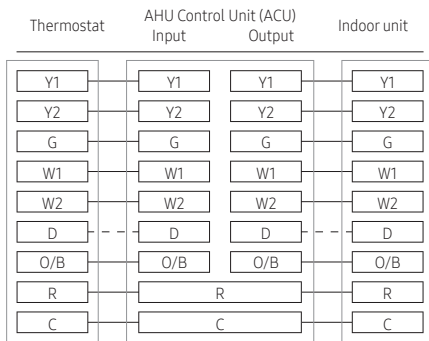
2 Stage Electric Heat



Installation

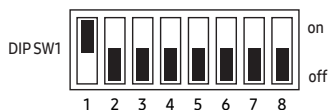
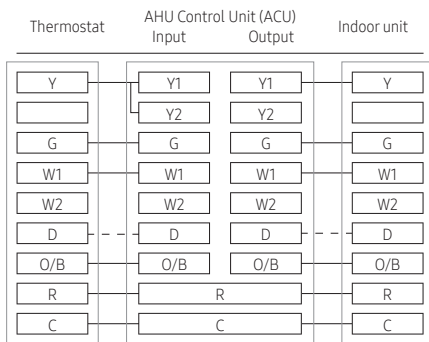
A-Coil + Furnace with Heat Pump Configuration

2 Stage Thermostat, 2 Stage Furnace



- Please review the Option Settings section for additional system option settings.
- When the system consists of an A-coil and a furnace and the outdoor unit will be configured to be used as a heat pump, configure the thermostat as follows: 2 stage heat pump, 4-way reversing valve to B, Furnace. If a W1 or W2 signal is input, the heat-pump turns off.
- Connection of the dehumidification (D) terminal is optional. If the thermostat and the AHU/furnace supports a dehumidification signal, the outdoor unit and AHU Control Unit (ACU) will adjust operation to optimize dehumidification.
- Connect terminals R and C of the indoor unit to the 24V input terminal of the PBA or to output terminals R and C of the transformer, not output terminals R and C of the thermostat.

1 Stage Thermostat, 1 Stage Furnace

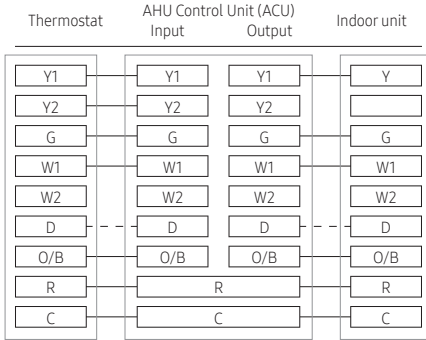


- Please review the Option Settings section for additional system option settings.
- When the system consists of an A-coil and a furnace and the outdoor unit will be configured to be used as a heat pump, configure the thermostat as follows: 1 stage heat pump, 4-way reversing valve to B, Furnace. If a W1 or W2 signal is input, the heat-pump turns off.
- If a single stage(1-stage) thermostat is used, connect the Y output to either the Y1 or Y2 input terminal on the AHU Control Unit (ACU). Use a separate jumper wire to connect Y1 to Y2 of the AHU Control Unit (ACU).
- If the indoor unit only has a Y input terminal, connect it to the Y1 output terminal in the Indoor section of the AHU Control Unit (ACU).
- Connection of the dehumidification (D) terminal is optional. If the thermostat and the AHU/furnace supports a dehumidification signal, the outdoor unit and AHU Control Unit (ACU) will adjust operation to optimize dehumidification.
- Connect terminals R and C of the indoor unit to the 24V input terminal of the PBA or to output terminals R and C of the transformer, not output terminals R and C of the thermostat.



A-Coil + Furnace with Heat Pump Configuration (continued)

2 Stage Thermostat, 1 Stage Furnace



- Please review the Option Settings section for additional system option settings.
- When the system consists of an A-coil and a furnace and the outdoor unit will be configured to be used as a heat pump, configure the thermostat as follows: 2 stage heat pump, 4-way reversing valve to B, Furnace. If a W1 or W2 signal is input, the heat-pump turns off.
- If the indoor unit only has a Y input terminal, connect it to the Y1 output terminal in the Indoor section of the AHU Control Unit (ACU).
- Connection of the dehumidification (D) terminal is optional. If the thermostat and the AHU/furnace supports a dehumidification signal, the outdoor unit and AHU Control Unit (ACU) will adjust operation to optimize dehumidification.
- Connect terminals R and C of the indoor unit to the 24V input terminal of the PBA or to output terminals R and C of the transformer, not output terminals R and C of the thermostat.



Installation

Option settings

Thermostat settings

- Heat pump stage: It is recommended that a 2-stage thermostat be used with this device.
- O/B Reversing valve: energized on heat, Configure as B at thermostat.
- Minimum compressor downtime: 180 seconds or more
- Minimum compressor uptime: 300 seconds or more



CAUTION

- The compressor may become damaged if the settings specified above are not used. If it is not possible to configure settings from the thermostat or if the device is installed in an environment where a 1-stage thermostat turns on and off frequently, lower the target pressure setting using the outdoor unit option settings to allow the thermostat to operate for more than 5 minutes.
- To ensure smooth control, set the difference between the Stage 2 activation temperature and set temperature to 3–4 °F.

Option settings for the AHU Control Unit (ACU)

- Press and hold the K1 switch for more than 1 second to reset the device.
- After changing DIP SW setting, reset power supply or press the K1(reset) button to update the changes.
- Heat Dissipation Time: If the indoor unit or thermostat does not have a fan delay time during defrost control, cold wind prevention control, and fan off delay setting options and the motor is controlled via the G1/G2/G3 terminals, it is recommended that settings be configured as follows:

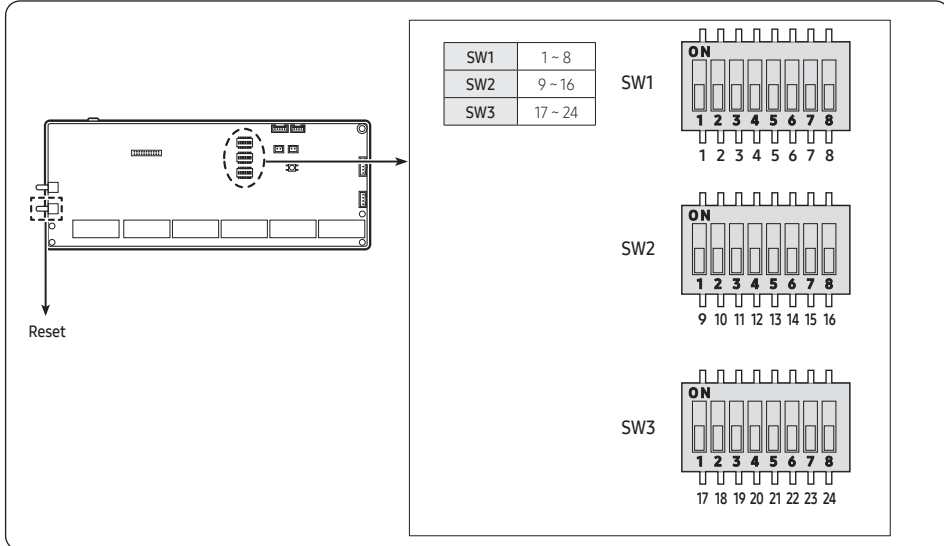
Options	Option settings	Heat dissipation time
Fan delay time during defrost control and cold wind prevention control	• DIP SW3-19: Off • DIP SW3-20: On	10 seconds
Fan off delay	• DIP SW3-21: On • DIP SW3-22: Off	30 seconds

- When configured for 3-step control (automatically adjusts the fan speed using according to the indoor load), it is recommended that a 2-stage thermostat is used. If a 1-stage thermostat is used and 3-step control (Y connection only) option is enabled, the indoor fan speed may decrease or the heat pump reaction may be delayed when the load or set temperature fluctuates.





Option settings



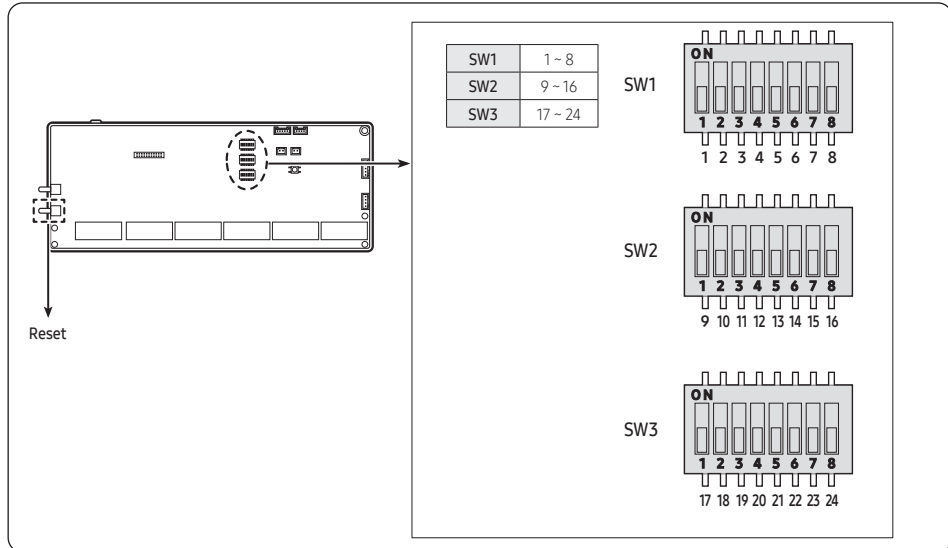
SW1-1		System setting ¹⁾
On		Furnace+A-coil ※ Dual fuel
Off		Heat Pump (Default)
SW1-2		Auxiliary Heater/Furnace Stage setting ²⁾
On		Stage 2
Off		Stage 1
SW1-3 to SW1-8		Reserved
SW2-9	SW2-10	Fan step control
On	On	Thermostat control (Default)
Off	On	3 step control (Y connection only) ³⁾
On	Off	3 step control (Y1 & Y2 connection) ⁴⁾
Off	Off	Thermostat control (Default)
SW2-11		Cold wind prevention ⁵⁾
On		Disable
Off		Enable (Default)
SW2-12		Fan operation during defrost ⁶⁾
On		Fan On
Off		Fan Off
SW2-13		Reserved
SW2-14		Enhanced dehumidification control ⁷⁾
On		Disable
Off		Enable (Default)

* Refer to page 15 to 21 for Wiring diagrams.



Installation

Option settings



Installation

SW2-15		Drain Pump
On		Enable
Off		Disable (Default)
SW2-16		Reserved
SW3-17		RDS alerts ⁸⁾
On		N/C (Normal Close)
Off		N/O (Normal Open)
SW3-18		Reserved
SW3-19	SW3-20	Fan delay time during defrost control and cold wind prevention control ⁹⁾
On	On	15 seconds
Off	On	10 seconds
On	Off	5 seconds
Off	Off	0 seconds (Default)
SW3-21	SW3-22	Fan off delay when unit turns off ¹⁰⁾
On	On	90 seconds
Off	On	60 seconds
On	Off	30 seconds
Off	Off	0 seconds (Default)
SW3-23		Reserved
SW3-24		Thermostat type
On		2-wire Samsung communicating controller ¹¹⁾
Off		24V thermostat

* Refer to page 15 to 21 for Wiring diagrams.





Option setting details

NOTE

- After changing DIP SW setting, reset power supply or press the K1 (Reset) button, to update the changes.

Options	Option setting details
1) System setting SW1-1	With the setting "Furnace + A-coil" enabled, simultaneous operation of the heat pump and an auxiliary heat source is not permitted. A simultaneous input of the signals Y1 and Y2 and the signals W1 and W2 stops the heat pump.
2) Auxiliary Heater/Furnace Stage setting SW1-2	- With the wired remote control connected and the setting "Stage 1" enabled, the same signal is outputted to W1 and W2. - With the setting "Stage 2" enabled, the signals Stage 1 and Stage 2 are outputted to W1 and W1, respectively. - DIP SW settings do not need to be made to connect the thermostat. - Make the stage settings for the thermostat manually.
3) 3 step fan speed control for 1 stage thermostats (Y connection only) SW2-9 and 2-10	- This can only be turned on when a 1-stage thermostat is used. - The fan speed control logic is as follows: - High: Used during the initial stage of cooling/heating operation - Mid: When the following cycle occurs 2 times sequentially: Used when High speed is enabled and the thermostat turns off within 30 minutes after turning on within 20 minutes after turning off. - Low: When the following cycle occurs 2 times sequentially: Used when Mid speed is enabled and the thermostat turns off within 30 minutes after turning on within 20 minutes after turning off. - If cooling/heating operation if Mid/Low speed continues for more than 30 minutes, the fan speed increases by one level. - G1 (Low) / G2 (Mid) / G3 (High) signals will also be enabled simultaneously.





Installation

Options	Option setting details
4) 3 step fan speed control for 2 stage thermostats (Y1 and Y2 connection) SW2-9 and 2-10	- This can only be enabled when a 2-stage thermostat is used. - The fan speed control logic is as follows: - High: Used during Stage 2 operation - Mid: Used during Stage 1 operation - Low: Used when operation in Mid speed continues for 30 minutes - Fan speed changes to High if a Stage 2 signal is input during operation in Mid/Low fan speed mode. - Stage 1 performance control logic: If the mode switches to Stage 1 from Stage 2 due to a decrease in the difference between the set temperature and indoor temperature and then the mode returns to Stage 2 due to a failure to reach the set temperature because of low performance of Stage 1, the target pressure for Stage 1 is calibrated when the mode switches to Stage 1, to increase the performance of Stage 1. - G1 (Low) / G2 (Mid) / G3 (High) signals will also be enabled simultaneously.
5) Cold wind prevention SW2-11	- Stops the fan until the heat exchanger warms up to prevent cold air during the initial stage of heating operation. - The fan operates if high pressure increases to 269psi or more during the initial stage of heating operation. - When this feature is activated, the fan will remain idle for a maximum of 5 minutes. ⚠ CAUTION - When set to enable, this feature is activated when the compressor starts operation in heating mode to keep the fan off while the compressor is operating. Once the compressor starts operation, the fan is kept off during the control regardless of whether the fan is set to non-stop from the thermostat.
6) Fan operation during defrost SW2-12	- Prevents cold air during defrost operation by stopping the fan. - Stops fan operation when the heat pump enters defrost mode and keeps the fan stopped until the defrost operation is complete. - If this feature is set to disable and sw1-1 off, after a defrost cycle begins the W1/W2 output terminal on the AHU Control Unit (ACU) will continue outputting 24VAC until the defrost operation is complete. ⚠ CAUTION - When this feature is set to Enable, it may take longer to complete defrost cycles compared to when it is set to Disable. This feature is disabled if low pressure decreases to 14 psi or lower during defrost operation or if frost is still found after a defrost cycle is complete. This issue may occur if the indoor heat exchanger size is too small for the outdoor capacity or there is a problem with the thermostatic expansion valve (TXV) calibration.





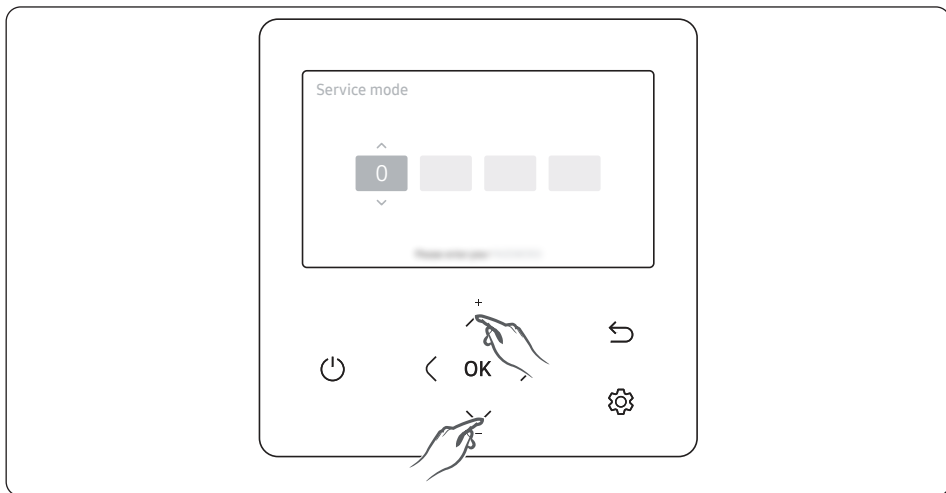
Options	Option setting details
7) Enhanced dehumidification control SW2-14	- Improves dehumidification by improving the cooling performance while dehumidification signals from the thermostat are received. - When this feature is set to Enable, the thermostat may turn off or on frequently. - A dehumidification effect can be increased by turning on this feature and the overcool feature of the thermostat simultaneously.
8) RDS alerts SW3-17	- Set to OFF if "Normal Open" indoor unit alarm signals are used (output of 24V signals to the alarm terminal in the event of a refrigerant leak). - Set to ON if "Normal Close" indoor unit alarm signals are used (output of 24V signals to the alarm terminal if no refrigerant leak is detected; no output of 24V signals in the event of a refrigerant leak). - If the product allows a selection between the two, select "Normal Open" and set to OFF (recommended)
9) Fan delay time during defrost control and cold wind prevention control SW3-19 and 3-20	- When the fan turns off or on through "cold wind prevention control" and/or "fan stop control during defrost operation," this feature turns on the fan earlier and turns it off later than the heat exchanger and heater during the set period of time, to prevent the heat exchanger or heater from overheating and to remove residual heat in the heater. - If the indoor unit does not have this feature or if the fan is controlled via the G1/G2/G3 terminals, it is recommended that the delay time be set to 10 seconds. - If the indoor unit or thermostat has this feature and you turn on this feature, the set time is added to the default delay time.
10) Fan off delay when unit turns off SW3-21 and 3-22	- Operates the fan for the set period of time when operation of the indoor unit or thermostat is stopped, to remove residual heat in the heat exchanger or heater. - If the indoor unit does not have this feature or the fan is controlled via the G1/G2/G3 terminals, it is recommended that the delay time be set to 30 seconds. - If the indoor unit or thermostat has this feature and you turn on this feature, the set time is added to the default delay time.
11) 2-wire Samsung communicating controller SW3-24	- Set to ON if wired remote control is installed. - If the thermostat type is set to wired remote control, control using the temperature sensor built in the wired remote control is the default control method.





Installation

Setting AHU Control Unit(ACU) option code with the wired remote control

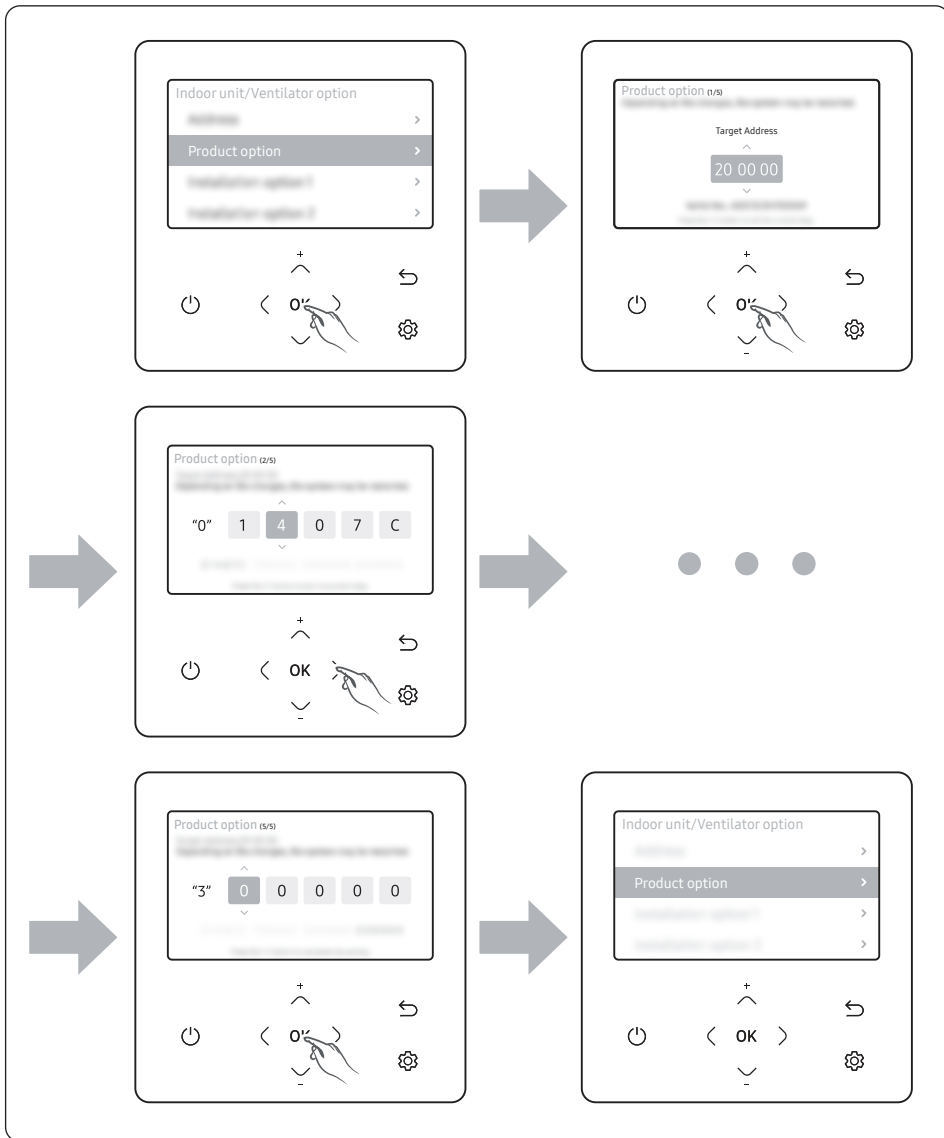


- 1 If you want to use the various additional functions for your Wired Remote Control, press the $\wedge$ and $\vee$ buttons at the same time for more than 3 seconds.
 - The password entry screen appears.
- 2 Enter the password, "0202," and then press the **OK** button.
 - The settings screen for installation mode/Service mode appears.
- 3 See the list of additional functions for the Wired Remote Control 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 $\wedge$ / $\vee$ 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 $\hookrightarrow$ button to move to the Home screen.

NOTE

- While setting the data, you can press the $\hookrightarrow$ button to move to the Home screen after checking the saving status at a pop-up screen.
- When setting the options for the AHU Control Unit (ACU), "Indoor Unit" is displayed on the wired remote control screen.
- When installing the Wired Remote Control, check the indoor temperature sensor usage settings.







Installation

[Product option page 1]

Product Option (1/5)

Target Address

20 00 01

Press the OK button to set the current step.

[Product option page 2]

Product Option (2/5)

Target Address: 20 00 01

"0" 1 0 0 0 0

Press the OK button to set the current step.

[Product option page 3]

Product Option (3/5)

Target Address: 20 00 01

"1" 0 0 0 0 0

Press the OK button to set the current step.

[Product option page 4]

Product Option (4/5)

Target Address: 20 00 01

"2" 0 0 0 0 0

Press the OK button to set the current step.

[Product option page 5]

Product Option (5/5)

Target Address: 20 00 01

"3" 0 0 0 0 0

Press the OK button to set the current step.



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 AHU Control Unit(ACU) installation option

- If you want to use the various additional functions for your Wired Remote control, press the  and  buttons at the same time for more than 3 seconds.
 - The password entry screen appears.
- Enter the password, "0202," and then press the **OK** button.
 - The settings screen for installation mode/Service mode appears.
- See the list of additional functions for the Wired Remote control 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  /  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.
- When setting the options for the AHU Control Unit (ACU), "Indoor Unit" is displayed on the wired remote control screen.
- When installing the Wired Remote Control, check the indoor temperature sensor usage settings.





Installation

[Installation option 1-page 1]

Installation Option 1 (1/5)
Target Address
20 00 01
Press the OK button to set the current step.

[Installation option 1-page 2]

Installation Option 1 (2/5)
Target Address: 20 00 01
"0" 2 0 0 0 0
Press the OK button to set the current step.

[Installation option 1-page 3]

Installation Option 1 (3/5)
Target Address: 20 00 01
"1" 0 0 0 0 0
Press the OK button to set the current step.

[Installation option 1-page 4]

Installation Option 1 (4/5)
Target Address: 20 00 01
"2" 0 0 0 0 0
Press the OK button to set the current step.

[Installation option 1-page 5]

Installation Option 1 (5/5)
Target Address: 20 00 01
"3" 0 0 0 0 0
Press the OK button to set the current step.



Setting the installation options

* The installation options of AHU Control Unit(ACU) is set to 020000-166000-200000-300000 by default

Option	SEG1		SEG2		SEG3			SEG4	
Explanation	PAGE		MODE		Emergency Heater / Furnace Auto change			Minimizing fan operation when thermostat is off	
Indication and details	Indication	Details	Indication	Details	Indication	Details		Indication	Details
	0				Emergency Heater	Furnace auto change	0		
					1	Disuse		Disuse	
					2	Use	Use	1	Keeping the set air flow
					3	Disuse	Use	2	Fan off
	Option	SEG5		SEG6		SEG7		SEG8	
Explanation	Central control		Emergency stop ¹⁾		PAGE		Aux Heater Stage 1 ²⁾		
Indication and details	Indication	Details	Indication	Details	Indication	Details	Indication	Details	
	0	Disuse	0	Disuse	1		0	No temp. offset	No delay
							1	No temp. offset	10 mins
							2	No temp. offset	20 mins
							3	2°F(1.1°C)	No delay
							4	2°F(1.1°C)	10 mins
							5	2°F(1.1°C)	20 mins
							6	4°F(2.2°C)	No delay
							7	4°F(2.2°C)	10 mins
							8	4°F(2.2°C)	20 mins
	9	6°F(3.3°C)	No delay						
	1	Use	8	Use			A	6°F(3.3°C)	10 mins
	B						6°F(3.3°C)	20 mins	
	C						8°F(4.4°C)	No delay	
	D						8°F(4.4°C)	10 mins	
	E						8°F(4.4°C)	20 mins	



Installation

Option	SEG9			SEG10		SEG11		SEG12		
Explantation	Aux Heater / Furnace Stage 2 ³⁾			Aux heater Lockout temp. ⁴⁾		Heat Pump Lockout temp.		Furnace Auto Change ⁵⁾		
	Indication	Details		Indication	Details	Indication	Details	Indication	Details	
		Offset temp.	Time delay						Heating operation	Offset temp.
Indication and details	0	No temp. offset	No delay	0	Disuse	0	Disuse	0	20 mins	2°F(1.1°C)
	1	No temp. offset	10 mins	1	65°F(18.3°C)	1	45°F(7.2°C)	1	30 mins	2°F(1.1°C)
	2	No temp. offset	20 mins	2	60°F(15.6°C)	2	40°F(4.4°C)	2	45 mins	2°F(1.1°C)
	3	2°F(1.1°C)	No delay	3	55°F(12.8°C)	3	35°F(1.7°C)	3	60 mins	2°F(1.1°C)
	4	2°F(1.1°C)	10 mins	4	50°F(10°C)	4	30°F(-1.1°C)	4	75 mins	2°F(1.1°C)
	5	2°F(1.1°C)	20 mins	5	45°F(7.2°C)	5	25°F(-3.9°C)	5	90 mins	2°F(1.1°C)
	6	4°F(2.2°C)	No delay	6	40°F(4.4°C)	6	20°F(-6.7°C)	6	120 mins	2°F(1.1°C)
	7	4°F(2.2°C)	10 mins	7	35°F(1.7°C)	7	15°F(-9.4°C)	7	150 mins	2°F(1.1°C)
	8	4°F(2.2°C)	20 mins	8	30°F(-1.1°C)	8	10°F(-12.2°C)	8	180 mins	2°F(1.1°C)
	9	6°F(3.3°C)	No delay	9	25°F(-3.9°C)	9	5°F(-15°C)	9	30 mins	4°F(2.2°C)
	A	6°F(3.3°C)	10 mins	A	20°F(-6.7°C)	A	0°F(-17.8°C)	A	45 mins	4°F(2.2°C)
	B	6°F(3.3°C)	20 mins	B	15°F(-9.4°C)	B	-5°F(-20.6°C)	B	60 mins	4°F(2.2°C)
	C	8°F(4.4°C)	No delay	C	10°F(-12.2°C)	C	-10°F(-23°C)	C	90 mins	4°F(2.2°C)
	D	8°F(4.4°C)	10 mins	D	5°F(-15°C)	D	-15°F(-26°C)	D	120 mins	4°F(2.2°C)
	E	8°F(4.4°C)	20 mins	E	0°F(-17.8°C)	E	-20°F(-29°C)	E	150 mins	4°F(2.2°C)
								F	180 mins	4°F(2.2°C)





Option	SEG13		SEG14		SEG15		SEG16	SEG17	SEG18	
Explanation	PAGE		Use of external control		External control output		Reserved	Reserved	Reserved	
Indication and details	Indication	Details	Indication	Details	Indication	Details				
	2		0, 4	Disuse	Existing control	0				Thermo on
			1, 5	On/Off						
			2, 6	Off						
			3, 7	Window On/off	Reverse control	1				Operation on
			8, C	Disuse						
			9, D	On/Off						
			A, E	Off						
			B, F	Window On/off						
Option	SEG19		SEG20	SEG21	SEG22		SEG23	SEG24		
Explanation	PAGE		Reserved	Reserved	Reserved		Reserved	Reserved		
Indication and details	Indication	Details								
	3									

¹⁾ SEG6 If emergency stop is in use, external control(SEG14) input will be change to disuse

²⁾ SEG8 heat pump & Stage 1 offset temperature/delay; HP conditions applied to furnace Stage 1

³⁾ SEG9 Stage 1 & Stage 2 offset temperature/delay

⁴⁾ SEG10 Not for furnace as furnace may use auto change

⁵⁾ SEG12 The heating source will automatically switch to furnace if the room temperature exceeds the offset temperature for longer than the operation time.

* Only for furnace

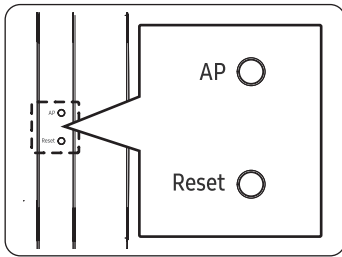


Using the SmartThings App

Connecting SmartThings

- 1 Launch the QR Code Reader app to scan the QR image attached to the product.
- 2 When the SmartThings app is running, tap 'Add' to connect the SmartThings app to the product.

LED indications on the display during easy Wi-Fi setup



Easy setup	Press AP  button for 5 seconds for entering AP.
Connection info reset	Press AP  button for 5 seconds → Wi-Fi LED light flashes → Press AP  button for 10 seconds → Wi-Fi and Error LED lights flash

LED Indicator Status

		LED Display			Remarks
		Power	Wi-Fi	Error	
					
Easy Setup	AP entry	●	○	X	Wi-Fi LED light flashes (0.5 On/0.5 Off)
	Check device	●	○	X	Wi-Fi LED light flashes (0.5 On/0.5 Off)
	Registering devices	●	○	X	Wi-Fi LED light flashes (1.5 On/0.5 Off)
	Connected	●	●	X	Wi-Fi LED light on
	Connection failed	●	X	X	All LED lights turn off, and the system operates in the previous mode
Connection info reset		●	○	○	Wi-Fi and Error LED lights flash
All devices reset		●	○	○	Wi-Fi and Error LED lights flash





SmartThings app

To use the SmartThings app, connect the product to the network in the sequence described below. The images shown may differ depending on your smartphone model, OS version and manufacturer. You need to set up the Wi-Fi access point only when connecting the product to a Wi-Fi network. Once the product is connected, you can use the SmartThings app via Wi-Fi, 3G, LTE, 5G or more wireless networks.

1 Checking the power connections

Check if the power is connected to the product and the access point.

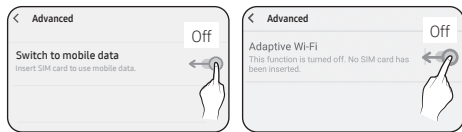
2 Setting up and connecting to a Wi-Fi access point using your smartphone

- 1 To connect the product to a Wi-Fi network, turn on Wi-Fi at "Settings > Wi-Fi", and then select the access point to connect to
 - Only alphanumeric characters are supported for wireless access point names (SSIDs). If an SSID has a special character, rename it before connecting to it.
 - This product supports only Wi-Fi 2.4 GHz.



2 Turning off "Switch to mobile data" at "Settings > Wi-Fi" on your Smartphone

- If "Switch to mobile data" or "Adaptive Wi-Fi" is turned on, you cannot connect to the network. Be sure to turn off these functions before connecting to the network.



NOTE

- The setup may differ depending on your smartphone model, OS version and manufacturer.

3 Checking the Internet connectivity

- After connecting to Wi-Fi, check that your smartphone is connected to the Internet.

NOTE

- A firewall may prevent your smartphone from connecting to the Internet. Contact your Internet service provider for troubleshooting.

3 Downloading the SmartThings app and registering your Samsung account

1 Downloading the SmartThings app

- Search for "SmartThings" on Play Store or App Store, and download the SmartThings app to your smartphone.
- If the SmartThings app is already installed on your smartphone, update it to the latest version.

NOTE

- The SmartThings app supports Android OS 7.0 or later (with at least 2 GB RAM) and iOS 12.0 or later. The app is optimized for iPhone 6s or later and Samsung smartphones (Galaxy S and Note series).
The updates of the SmartThings app or the functions supported by it may be discontinued for the previously supported OS versions due to reasons such as usability and security.
- The SmartThings app may change without prior notice to improve product usability and performance.



SmartThings app

2 Registering your Samsung account

- A Samsung account is required to use the SmartThings app. To create your Samsung account and log in to your account, follow the instructions displayed on the SmartThings app. You do not need to install an additional app.

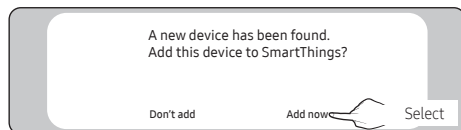
NOTE

- If you already have a Samsung account, log in to the account. If you have a smartphone that is a Samsung device and you have a Samsung account, your smartphone is automatically logged in to your account.
- If you log in from a smartphone produced for another country, you need to log in with its country code when you create your Samsung account, and the SmartThings app may not be used on some smartphones.

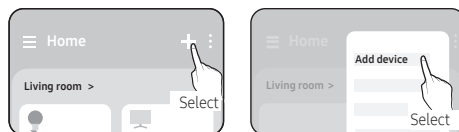
4 Connecting the SmartThings app to your product

1 Selecting the product to connect to

- Start the SmartThings app about one minute after turning on the product to connect to.
- After the SmartThings app is started, select 'ADD NOW' when a pop-up window saying that a product to connect to is found appears.

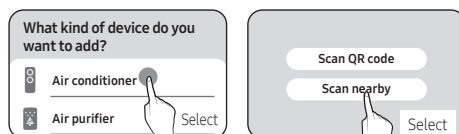


- If the pop-up window does not appear, select "+", and then "Add Device".



You can add a product you want to connect to by selecting it manually or by selecting "Scan nearby".

- Select manually: Samsung devices > Air conditioner
- Scan: Scan nearby > Air conditioner



2 Connecting the SmartThings app to your product

- Follow the instructions displayed on the SmartThings app to connect to your product.
- For information on how to use the SmartThings app, select the How To menu on the app.

NOTE

- If any pop-up window appears on the top of the smartphone while connecting to your product, do not select it.
- If a pop-up window saying that the device is already registered appears during connecting to your product, get permission using "REQUEST PERMISSION" from a user already connected to the product, or create a new account using "REGISTER MY ACCOUNT" to independently connect to the product.



- If a Samsung account-related country error occurs while connecting to your product, log out of your current Samsung account, log in to your previous Samsung account, and then delete all devices that have been connected previously. Then, log in to your current Samsung account again, and configure the settings.
- If a failure message appears while adding a device, see "Setting up and connecting to a Wi-Fi access point using your smartphone" on page 37. The connection may fail temporarily due to an installation location problem of the access point or other problems.
- If a message appears on the SmartThings app, follow its instructions.



NOTE

- For the security protocols for wireless/wired access points, WPA-PSK and WPA2-PSK are recommended. For the authentication methods, AES is recommended. New Wi-Fi authentication specifications and Wi-Fi non-standard authentication methods are not supported.
- The product supports the IEEE802.11 b/g/n (2.4 GHz) communication protocol. (Samsung recommends IEEE802.11n.)
- If your Internet service provider has permanently registered the MAC address (a unique identification number) of your PC or modem, you may not be able to connect your product to the Internet. Contact your Internet service provider and ask how to connect devices other than your PC (such as an air conditioner and an air purifier) to the Internet.

Open Source Announcement

The software included in this product contains open source software.

The following URL http://opensource.samsung.com/opensource/SMART_TP1_0/seq/0 leads to open source license information as related to this product.



Security updates information

Security updates are provided to strengthen the security of your device and protect your personal information. For more information on security updates, visit <https://security.samsungda.com>.

* The website supports only some languages.





Troubleshooting

If the Error indicator on the AHU control unit switches on, check the wireless remote control or outdoor unit for an error code.

Symptom		Measure
The installed SmartThings app cannot access the air conditioner.		Make sure you have connected the air conditioner to a wireless router.
I cannot log in with my Samsung account.		Try recovering your ID and password from the Samsung account page.
Adding device(s)	A failure message appears while adding devices.	This may fail temporarily due to the distance from the router or some interferences. Try again later.
	While adding the device, the progress stops at 0%-1% and a message appears saying that adding the device has failed.	You cannot add any device without deleting it once the device has already been added to the SmartThings app. To add the connected device again, first remove it and then proceed with the process.
	While adding the device, the progress is stuck at 99% and a message appears saying that adding the device has failed.	- If you are using a Samsung smartphone, the server may not be connected temporarily. Restart the SmartThings app and then try adding the device again. - If your phone is not a Samsung product, check that you have entered a wrong Wi-Fi password. Try adding devices again.
	The app displays an authorization failure before pressing the user agreement button.	Check if a Wi-Fi Kit Single is already connected from the SmartThings app. When there are devices added, first remove them, and try again.
	The app displays an authorization failure on the user agreement screen.	Make sure to press the [Power] button within 2 minutes after the screen appears. Try adding devices again.
	The screen requests to initialize the user account.	This happens when the user has already added devices. Follow the instructions provided in the SmartThings app.
After adding a device, the SmartThings app displays the disconnection event.		This happens when a device is being added to the server or it is temporarily disconnected from the router. End the SmartThings app and then launch it again.





Regulatory Notice

FCC Notice

FCC CAUTION:

Any changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.

This appliance contains the transmitter module.

This device complies with Part 15 of FCC Rules. Operation is Subject to the following two conditions:

- (1) This device may not cause harmful interference, and
- (2) This device must accept any interference received including interference that cause undesired operation.

For products available in the US and Canadian markets, only channels 1~11 are available.

You cannot select other channels.

FCC STATEMENT:

This equipment has been tested and found to comply within the limits for a Class B digital device, pursuant to part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation.

This equipment generates, uses, and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna
- Increase the separation between the equipment and receiver
- Connect the equipment to an outlet that is on a different circuit than the receiver.
- Consult the dealer or an experienced radio/TV technician for help.

FCC RADIATION EXPOSURE STATEMENT:

This equipment complies with FCC radiation exposure limits set forth for an uncontrolled environment.

This equipment should be installed and operated so there is at least 8 inches (20 cm) between the radiator and your body. This device and its antennas must not be co-located or operated in conjunction with any other antenna or transmitter except in accordance with FCC multi-transmitter product procedures.



Regulatory Notice

IC Notice

This appliance contains the transmitter module.

The term "IC" before the radio certification number only signifies that Industry Canada technical specifications were met. Operation is subject to the following two conditions : (1) this device may not cause interference, and (2) this device must accept any interference, including interference that may cause undesired operation of the device.

This Class B digital apparatus complies with Canadian ICES-003.

For products available in the US and Canadian markets, only channels 1~11 are available.

You cannot select other channels.

IC RADIATION EXPOSURE STATEMENT:

This equipment complies with IC RSS-102 radiation exposure limits set forth for an uncontrolled environment. This equipment should be installed and operated so there is at least 8 inches (20 cm) between the radiator and your body. This device and it's antennas must not be co-located or operated in conjunction with any other antenna or transmitter except in accordance with FCC multi-transmitter product procedures.

SAVE THESE INSTRUCTIONS





SUPPLIER'S DECLARATION OF CONFORMITY

According to Sec. 2.1077, 47 CFR of the FCC Rules.

This device complies with Part 15 of the FCC Rules. Operation is subject to the following two conditions: (1) This device may not cause harmful interference, and (2) This device must accept any interference received, including interference that may cause undesired operation

Equipment EUT Type	AHU Control Unit
Kind of product	Accessory for Air Conditioner
Trade Name	Samsung
Model	MXD-U001XN
Variant Model	-
Applied Rules	FCC Part 15 Subpart B & Part 2, ICES-003 Issue 7
	ANSI C63.4a-2017
Manufacturer	Samsung Electronics Co., Ltd. (Maetan dong) 129, Samsung-ro, Yeongtong-Gu, Suwon-Si, Gyeonggi-Do 16677 Korea

We hereby declare that the equipment bearing the trade name and model number specified above was tested conforming to the applicable FCC Rules under the most accurate measurement standards possible, and that all the necessary steps have been taken and are in force to assure that production units of the same equipment will continue to comply with the Commission's requirements.

U.S. RESPONSIBLE PARTY	Samsung Lennox HVAC North America LLC 776 Henrietta Creek Rd. Suite 100 Roanoke, TX 76262
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