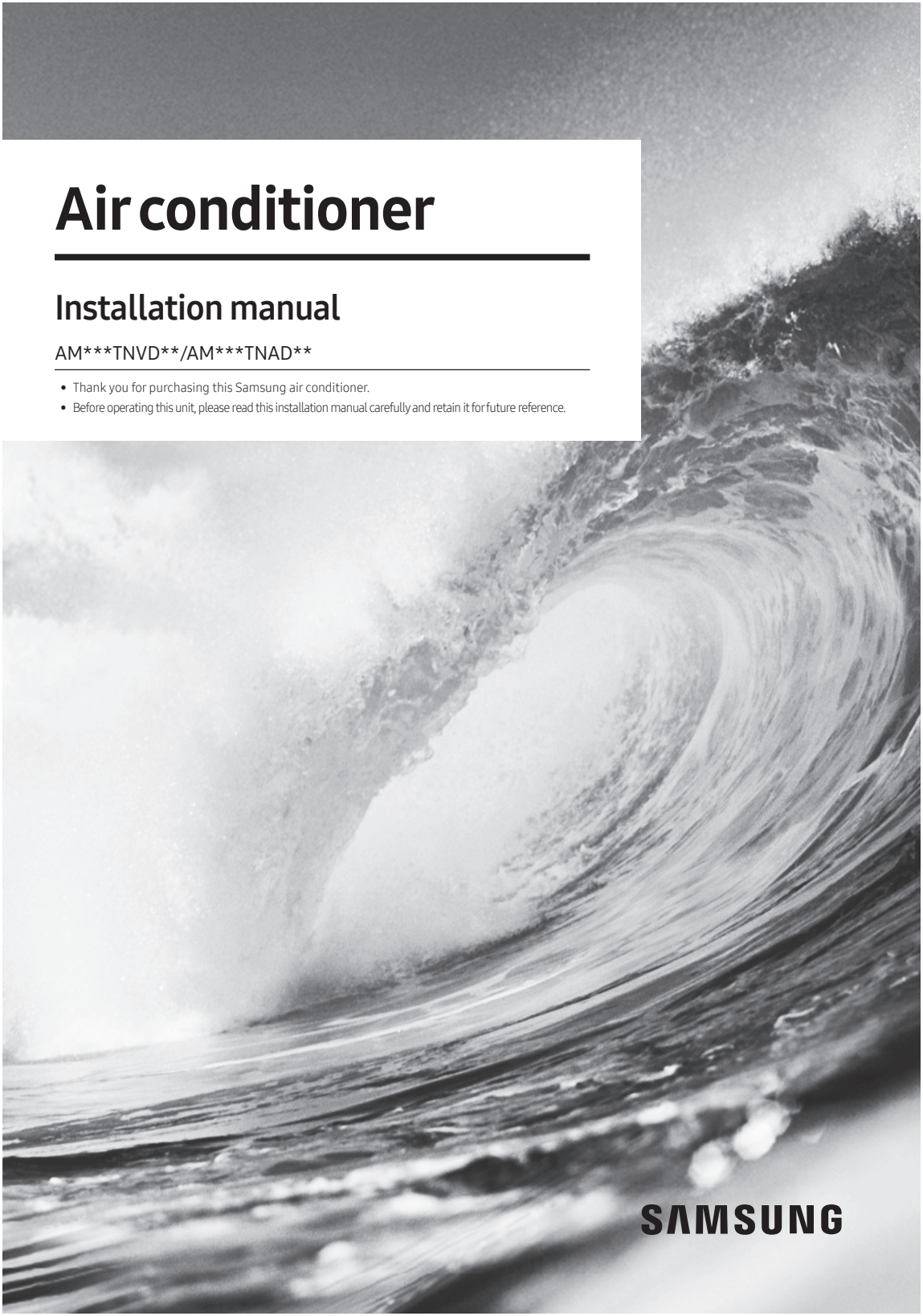
Air conditioner

Installation manual

AM***TNVD**/AM***TNAD**

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



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Safety Information

Carefully follow the precautions listed below because they are essential to guarantee the safety of the equipment.

⚠ WARNING

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

General information

- Carefully read the content of this manual before installing the air conditioner and store the manual in a safe place in order to be able to use it as reference after installation.
- For maximum safety, installers should always carefully read the following warnings.
- Store the operation and installation manual in a safe location and remember to hand it over to the new owner if the air conditioner is sold or transferred.
- This manual explains how to install an indoor unit with a split system with two SAMSUNG units. The use of other types of units with different control systems may damage the units and invalidate the warranty. The manufacturer shall not be responsible for damages arising from the use of non compliant units.
- The manufacturer shall not be responsible for damage originating from unauthorized changes or the improper connection of electric and hydraulic lines. Failure to comply with these instructions or to comply with the requirements set forth in the "Operating limits" table, included in the manual, shall immediately invalidate the warranty.
- The air conditioner should be used only for the applications for which it has been designed: the indoor unit is not suitable to be installed in areas used for laundry.
- Do not use the units if damaged. If problems occur, switch the unit off and disconnect it from the power supply.
- In order to prevent electric shocks, fires or injuries, always stop the unit, disable the protection switch and contact SAMSUNG's technical support if the unit produces smoke, if the power cable is hot or damaged or if the unit is very noisy.
- Always remember to inspect the unit, electric connections, refrigerant tubes and protections regularly. These operations should be performed by qualified personnel only.
- The unit contains moving parts, which should always be kept out of the reach of children.
- Do not attempt to repair, move, alter or reinstall the unit. If performed by unauthorized personnel, these operations may cause electric shocks or fires.
- Do not place containers with liquids or other objects on the unit.
- All the materials used for the manufacture and packaging of the air conditioner are recyclable.
- The packing material and exhaust batteries of the remote control (optional) must be disposed of in accordance with current laws.
- The air conditioner contains a refrigerant that has to be disposed of as special waste. At the end of its life cycle, the air conditioner must be disposed of in authorized centers or returned to the retailer so that it can be disposed of correctly and safely.

Installing the unit

- IMPORTANT: When installing the unit, always remember to connect first the refrigerant tubes, then the electrical lines. Always disassemble the electric lines before the refrigerant tubes.
- Upon receipt, inspect the product to verify that it has not been damaged during transport. If the product appears damaged, DO NOT INSTALL it and immediately report the damage to the carrier or retailer (if the installer or the authorized technician has collected the material from the retailer.)
- After completing the installation, always carry out a functional test and provide the instructions on how to operate the air conditioner to the user.
- Do not use the air conditioner in environments with hazardous substances or close to equipment that release free flames to avoid the occurrence of fires, explosions or injuries.
- The air conditioner should be used only for the applications for which it has been designed: the indoor unit is not suitable to be installed in areas used for laundry.

Safety Information

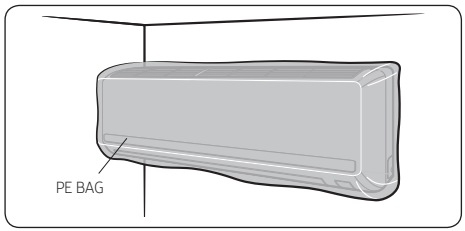
- Our units must be installed in compliance with the spaces indicated in the installation manual to ensure either accessibility from both sides or ability to perform routine maintenance and repairs. The units' components must be accessible and that can be disassembled in conditions of complete safety either for people or things. For this reason, where it is not observed as indicated into the Installation Manual, the cost necessary to reach and repair the unit (in safety, as required by current regulations in force) with slings, trucks, scaffolding or any other means of elevation won't be considered in-warranty and charged to end user.

Power supply line, fuse or circuit breaker

- Always make sure that the power supply is compliant with current safety standards. Always install the air conditioner in compliance with current local safety standards.
- Always verify that a suitable grounding connection is 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 air conditioner is connected to the power supply in accordance with the instructions provided in the wiring diagram included in the manual.
- Always verify that electric connections (cable entry, section of leads, protections...) are compliant with the electric specifications and with the instructions provided in the wiring scheme. Always verify that all connections comply with the standards applicable to the installation of air conditioners.
- Be sure not to perform power cable modification, extension wiring, and multiple wire connection.
  - It may cause electric shock or fire due to poor connection, poor insulation, or current limit override.
  - When extension wiring is required due to power line damage, refer to "Step 12 Optional: Extending the power cable" in the installation manual.

⚠ CAUTION

- Make sure that you earth the cables.
  - Do not connect the earth wire to the gas pipe, water pipe, lighting rod or telephone wire. If earthing is not complete, electric shock or fire may occur.
- Install the circuit breaker.
  - If the circuit breaker is not installed, electric shock or fire may occur.
- Make sure that the condensed water dripping from the drain hose runs out properly and safely.
- Install the power cable and communication cable of the indoor and outdoor unit at least 1m away from the electric appliance.
- Install the indoor unit away from lighting apparatus using the ballast.
  - If you use the wireless remote control, reception error may occur due to the ballast of the lighting apparatus.
- Do not install the air conditioner in following places.
  - Place where there is mineral oil or arsenic acid. Resin parts flame and the accessories may drop or water may leak.
    The capacity of the heat exchanger may reduce or the air conditioner may be out of order.
  - The place where corrosive gas such as sulfurous acid gas generates from the vent pipe or air outlet. The copper pipe or connection pipe may corrode and refrigerant may leak.
  - The place where there is a machine that generates electromagnetic waves. The air conditioner may not operate normally due to control system.
  - The place where there is a danger of existing combustible gas, carbon fiber or flammable dust. The place where thinner or gasoline is handled. Gas may leak and it may cause fire.
- Please cover the air conditioner with PE BAG after installation, and remove it when you start to run air conditioner.

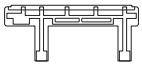


Installation Procedure

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.

Installation plate	Installation manual
	
User manual	PE indoor unit cover
	

Step 2 Selecting the installation location

Indoor Unit

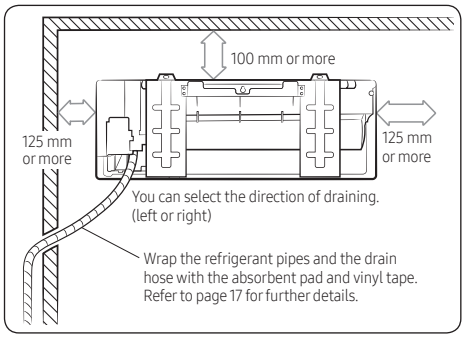
- Where airflow is not blocked.
- Where cool air can be distributed throughout the room.
- Install the refrigerant piping length and the height difference of both indoor and outdoor units as indicated in the installation diagram.
- Wall that prevents vibration and is strong enough to hold the product weight.
- Out of the direct sunlight.
- 1m or more away from the TV or radio (to prevent the screen from being distorted or noise from being generated).
- As far away as possible from fluorescent and incandescent lights (so that the remote control can be operated well).
- A place where the air filter can be replaced easily.

⚠ CAUTION

- Do not install the product with EEV (commercial model) in a quiet place such as bedroom, hotel, and hospital. If installation is required in a place, install the indoor unit that has no EEV along with the EEV kit.
- Avoid the following places to prevent malfunction of the unit.
  - Where there is machine oil
  - Salty environment such as the seaside areas
  - Where sulfide gas exists
  - Other special atmosphere areas

Space requirements for installation & service

Observe the clearances and maximum lengths as seen in the picture below when installing the air conditioner.



NOTE

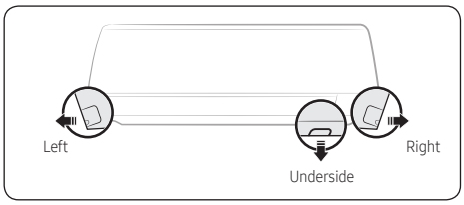
- The appearance of the unit may be different from the diagram depending on the model.

Installation Procedure

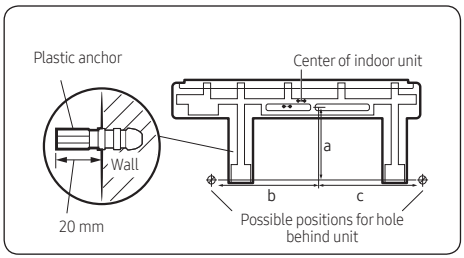
Step 3 Installing the indoor unit

Before fixing the installation plate to the wall or window frame, you must determine the position of the 65 mm hole through which the cable, pipe and hose pass to connect the indoor unit to the outdoor unit.
When facing the wall, the pipe and cable can be connected from the:

- Right
- Left
- Underside (right)
- Rear (right or left)



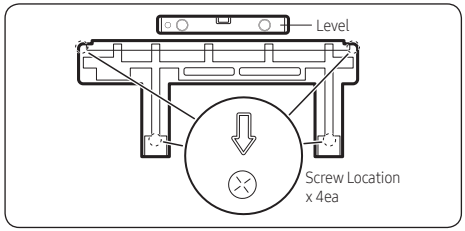
1 Determine the position of the pipe and drain hose hole as seen in the picture and drill the hole with an inner diameter of 65 mm so that it slants slightly downwards.



Pipe bundle hole: Ø 65 mm (Unit : mm)

Model	a	b	c
015/022/028/036	165	305	416
045/056/071/082	150	305	650.5

2 If you fix the indoor unit to a wall, fix the installation plate to the wall giving attention to the weight of the indoor unit.



NOTE

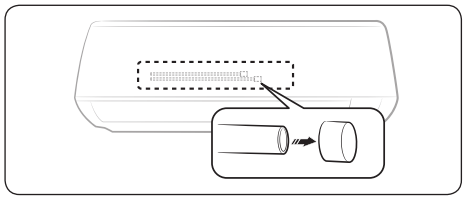
- If you mount the plate to a concrete wall by using plastic anchors, make sure that gaps between the wall and the plate, created by projected anchor, are less than 20 mm.

3 If you fix the indoor unit to a window frame, follow 4 to 6.
4 Determine the positions of the wooden uprights to be attached to the window frame.
5 Attach the wooden uprights to the window frame giving attention to the weight of the indoor unit.
6 Attach the installation plate to the wooden uprights using tapping screw.

Step 4 Purging the unit

Upon delivery, there may be inert gas inside the indoor unit. Purge the gas from the indoor unit before connecting the assembly pipe.

- Unscrew the caps at the end of each pipe. All inert gas exhausts from the indoor unit.



NOTE

- To prevent dirt or foreign substances from getting into the pipes during installation, do NOT remove the caps completely until you are ready to connect the pipes.

Step 5 Connecting the refrigerant pipe

Connect indoor and outdoor units with field-supplied copper pipes by means of flare connections. Use insulated seamless refrigeration grade pipe only, (Cu DHP type according to ISO1337), degreased and deoxidized, suitable for operating pressures of at least 4200 kPa and for burst pressure of at least 20700 kPa. Under no circumstances must sanitary type copper pipe be used.

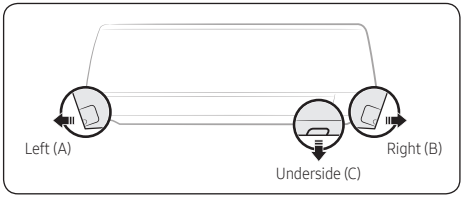
There are 2 refrigerant pipes of different diameters:

- The smaller one is for the liquid refrigerant
- The larger one is for the gas refrigerant

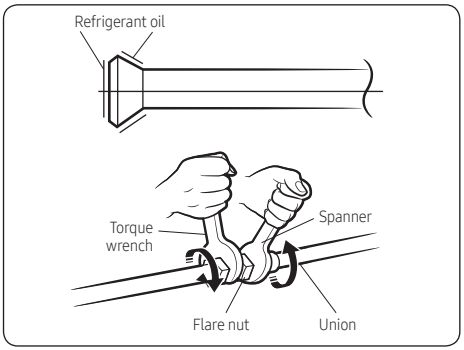
A short pipe is already fitted to the air conditioner. You may need to extend the pipe using the assembly pipe. (optional)

The connection procedure for the refrigerant pipe varies according to the exit position of the pipe when facing the wall:

- Right (A)
- Left (B)
- Underside (C)
- Rear



1 Cut out the appropriate knock-out piece on the rear of the indoor unit unless you connect the pipe directly from the rear.
2 Smooth the cut edges.
3 Remove the protection caps of the pipes and connect the assembly pipe to each pipe. Tighten the nuts first with your hands, and then with a torque wrench, applying the following torque:



Outer diameter (mm)	Torque (N•m)	Torque (kgf•cm)
6.35	14~18	140~180
9.52	34~42	350~430
12.7	49~61	500~620
15.88	68~82	690~830

NOTE

- If you want to shorten or extend pipes, refer to Step 6 Cutting or flaring the pipes.

4 Cut off the remaining foam insulation.
5 If necessary, bend the pipe to fit along the bottom of the indoor unit. Then pull it out through the appropriate hole.
   - The pipe should not project from the rear of the indoor unit.
   - The bending radius should be 100 mm or more.
6 Pass the pipe through the hole in the wall.
7 For further details on how to connect to the outdoor unit and purge the air, refer to Step 4 Purging the unit.

NOTE

- The pipe will be insulated and fixed permanently into position after finishing the installation and the gas leak test; refer to page 9 for further details.
- DO NOT WALL UP THE PIPE CONNECTION!

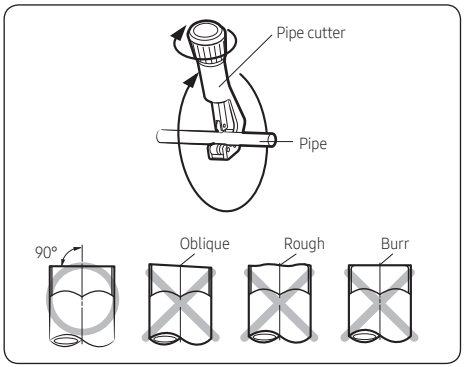
  All refrigerant pipe connection must be easy accessible and serviceable.

Installation Procedure

Step 6 Cutting or flaring the pipes

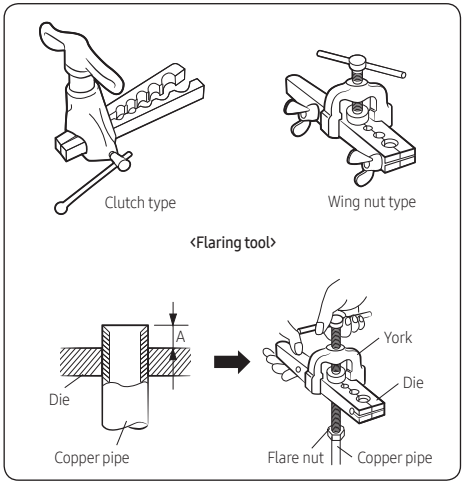
1 Make sure that you prepared the required tools. (pipe cutter, reamer, flaring tool and pipe holder)

2 If you want to shorten the pipe, cut it using a pipe cutter ensuring that the cut edge remains at 90° with the side of the pipe. There are some examples of correctly and incorrectly cut edges below.



3 To prevent a gas leak, remove all burrs at the cut edge of the pipe using a reamer.

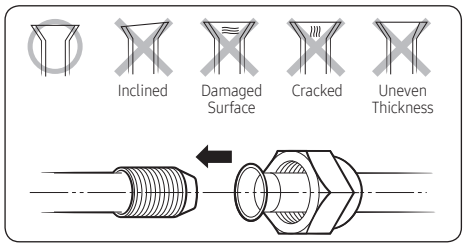
4 Carry out flaring work using flaring tool as shown below.



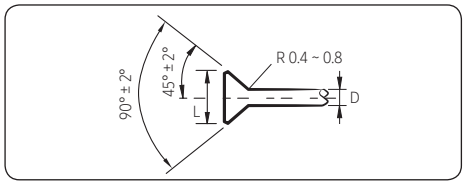
(Unit: mm)

Outer diameter	A		
	Flare tool for R410A clutch type	Conventional flare tool	
		Clutch type	Wing nut type
6.35	0~0.5	1.0~1.5	1.5~2.0
9.52	0~0.5	1.0~1.5	1.5~2.0
12.7	0~0.5	1.0~1.5	1.5~2.0
15.88	0~0.5	1.0~1.5	1.5~2.0

5 Check if you flared the pipe correctly. There are some examples of incorrectly flared pipes below.



6 Align the pipes and tighten the flare nuts first manually and then with a torque wrench, applying the following torque.



Outer diameter (D, mm)	Connection Torque		Flare dimension (L, mm)
	kgf•cm	N•m	
6.35	140~180	14~18	8.70~9.10
9.52	350~430	34~42	12.80~13.20
2.7	500~620	49~61	16.20~16.60
15.88	690~830	68~82	19.30~19.70

⚠ CAUTION

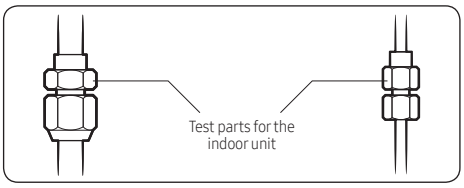
- In case of needing brazing, you must work with nitrogen gas blowing.

Step 7 Performing leak test

Leak test

LEAK TEST WITH NITROGEN (before opening valves)
In order to detect basic refrigerant leaks, before recreating the vacuum and recirculating the R410A, it's responsible of installer to pressurize the whole system with nitrogen (using a pressure regulator) at a pressure above 4.1MPa (gauge).

LEAK TEST WITH R410A (after opening valves)
Before opening valves, discharge all the nitrogen into the system and create vacuum. After opening valves check leaks using a leak detector for refrigerant R410A.



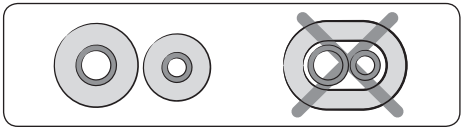
CAUTION

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

Step 8 Wrapping the pipes with the insulation

After checking for gas leaks in the system, insulate the pipe, hose and cables. Then place the indoor unit on the installation plate.

1 To avoid condensation problems, place heat-resistant poly-ethylene foam separately around each refrigerant pipe in the lower part of the indoor unit.



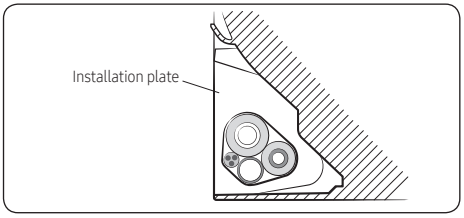
2 Wrap the refrigerant pipe and the drain hose in the rear of the indoor unit with the absorbent pad.

NOTE

- Wind the pipe and hose three times to the end of the indoor unit with the absorbent pad. (20mm interval)

3 Wind the pipe, assembly cable and drain hose with insulation tape.

4 Place the bundle (the pipe, assembly cable and drain hose) in the lower part of the indoor unit carefully so it doesn't project from the rear of the indoor unit.



5 Hook the indoor unit to the installation plate and move the unit to the right and left until it is securely in place.

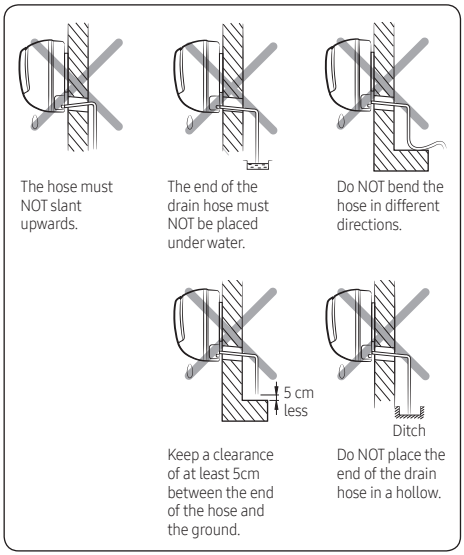
6 Wrap the rest of the pipe with vinyl tape.

7 Attach the pipe to the wall using clamps (optional).

Installation Procedure

Step 9 Installing the drain hose

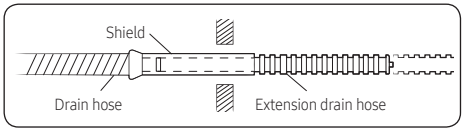
When installing the drain hose for the indoor unit, check if condensation draining is adequate. When passing the drain hose through the 65-mm hole drilled in the wall, check the following:



1 If necessary, connect the 2-meter extension drain hose to the drain hose.

2 If you use the extension drain hose, insulate the inside of the extension drain hose with a shield.

3 Fit the drain hose into 1 of 2 drain hose holes, then fix the end of the drain hose tightly with a clamp.



NOTE

- If you don't use the other drain hose hole, block it with a rubber stopper.

4 Pass the drain hose under the refrigerant pipe, keeping the drain hose tight.

5 Pass the drain hose through the hole in the wall. Check if it slants downwards as seen in the picture.

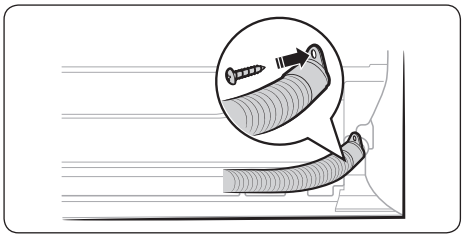
NOTE

- The hose will be fixed permanently into position after finishing the installation and the gas leak test; refer to page 12 for further details.
- DO NOT WALL UP THE DRAIN HOSE CONNECTION! Drain hose connection must be easy accessible and serviceable.

Step 10 Optional: Changing direction of the drain hose

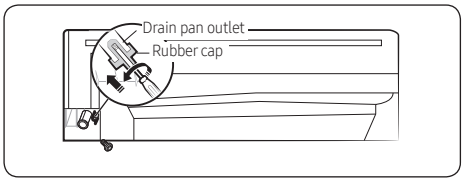
You can select the direction of the drain hose, depending on where you want to install the indoor unit.

1 Detach the rubber cap with the flyer.



2 Detach the drain hose by pulling it and turning to the left.

3 Insert the drain hose by fixing it into the groove of the drain hose and the outlet of the drain pan.



4 Attach the rubber cap with a screwdriver by turning it to the right until it fixes to the end of the groove.

Step 11 Connecting the power and communication cables

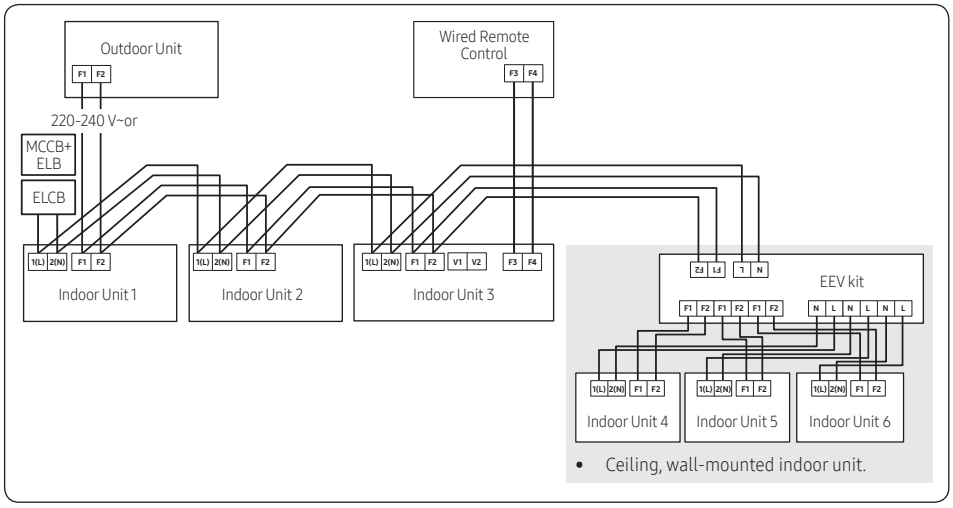
1 Before wiring work, you must turn off all power source.

2 Indoor unit power should be supplied through the breaker (ELCB or MCCB+ELB) separated by the outdoor power.
- ELCB:Earth Leakage Circuit Breaker
- MCCB:Molded Case Circuit Breaker
- ELB:Earth Leakage Breaker

3 The power cable should be used only copper wires.

4 Connect the power cable (1(L), 2(N)) among the units within maximum length and communication cable (F1, F2) each.

5 Connect F3, F4(for communication) wires at the back side of the indoor unit when installing the wired remote control.



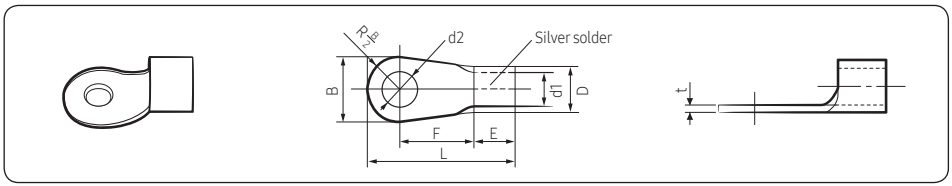
- ELCB : Essential Installation
- The EEV Kit is optional component.

⚠ WARNING

- Power off before connecting any wires;Indoor PBA will be damaged while V1, V2, F3, F4 short each other.
- You must connect the earth cable. If earthing is not complete, electric shock or fire may occur.

Installation Procedure

Ring terminal selection



Norminal dimensions for cable (mm²)	Norminal dimensions for screw (mm)	B		C		d1		E	F	L	d2		t
		Standard dimension (mm)	Allowance (mm)	Standard dimension (mm)	Allowance (mm)	Standard dimension (mm)	Allowance (mm)	Min.	Min.	Max.	Standard dimension (mm)	Allowance (mm)	Min.
1.5	4	6.6	±0.2	3.4	+0.3 -0.2	1.7	±0.2	4.1	6	16	4.3	+0.2 0	0.7
	4	8											
2.5	4	6.6	±0.2	4.2	+0.3 -0.2	2.3	±0.2	6	6	17.5	4.3	+0.2 0	0.8
	4	8.5											
4	4	9.5	±0.2	5.6	+0.3 -0.2	3.4	±0.2	6	5	20	4.3	+0.2 0	0.9

Specification of electronic wire

Power supply	MCCB	ELB or ELCB	Power cable	Earth cable	Communication cable
Max : 242 V / Min : 198V	XA	XA, 30 mmA, 0.1 s	2.5 mm²	2.5 mm²	0.75~1.5 mm²

- Refer to the unit nameplate for rating current.
- Decide the capacity of ELCB(or MCCB+ELB) by below formula.
- Power supply cords of parts of appliances for outdoor use shall not be lighter than polychloroprene sheathed flexible cord. (Code designation IEC:60245 IEC 57 / CENELEC: H05RN-F or IEC:60245 IEC 66 / CENELEC: H07RN-F)

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

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

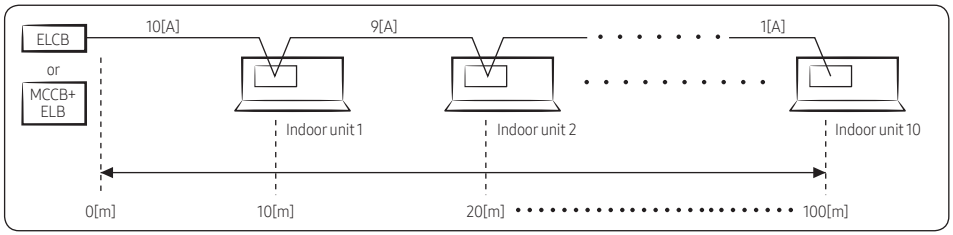
- Decide the power cable specification and maximum length within 10% power drop among indoor units.

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

- coef: 1.55
- Lk: Distance among each indoor unit [m],
  Ak: Power cable specification [mm²]
  ik: Running current of each unit [A]

Example of Installation

- Total power cable length L = 100(m), Running current of each units 1[A]
- Total 10 indoor units were installed



- Apply following equation.

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

- Calculation

  - Installing with 1 sort wire

-(2.2 + 2.0 + 1.8 + 1.5 + 1.3 + 1.1 + 0.9 + 0.7 + 0.4 + 0.2)= -11.2 [V]

  - Installing with 2 different sort wire.

-(1.4 + 1.2 + 1.8 + 1.5 + 1.3 + 1.1 + 0.9 + 0.7 + 0.4 + 0.2)= -10.5 [V]

⚠ CAUTION

- Select the power cable in accordance with relevant local and national regulations.
- Wire size must comply with local and national code.
- For the power cable, use the grade of H07RN-F or H05RN-F materials.
- You should connect the power cable into the power cable terminal and fasten it with a clamp.
- The unbalanced power must be maintained within 10% of supply rating among whole indoor units.
- If the power is unbalanced greatly, it may shorten the life of the condenser. If the unbalanced power is exceeded over 10% of supply rating, the indoor unit is protected, stopped and the error mode indicates.
- To protect the product from water and possible shock, you should keep the power cable and the connection cord of the indoor and outdoor units in the iron pipe.
- Connect the power cable to the auxiliary circuit breaker. An all pole disconnection from the power supply must be incorporated in the fixed wiring (≥ 3 mm).

Installation Procedure

- You must keep the cable in a protection tube.
- Keep distances of 50mm or more between power cable and communication cable.
- Maximum length of power cables are decided within 10% of power drop. If it exceeds, you must consider another power supplying method.
- The circuit breaker (ELCB or MCCB+ELB) should be considered more capacity if many indoor units are connected from one breaker.
- Use round pressure terminal for connections to the power terminal block.
- For wiring, use the designated power cable and connect it firmly, then secure to prevent out-side pressure being exerted on the terminal board.
- Use an appropriate screwdriver for tightening the terminal screws. A screwdriver with a small head will strip the head and make proper tightening impossible.
- Over-tightening the terminal screws may break them.
- See the table below for tightening torque for the terminal screws.

Tightening torque		
	N•m	kgf•cm
M 3.5	0.8 ~ 1.2	8.0 ~ 12.0
M 4	1.2 ~ 1.8	12.0 ~ 18.0

Step 12 Optional: Extending the power cable

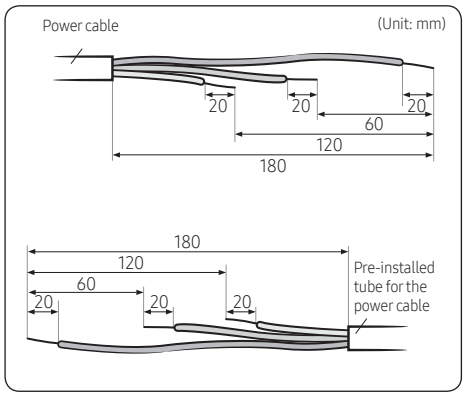
1 Prepare the following tools.

Tools	Spec	Shape
Crimping pliers	MH-14	
Connection sleeve (mm)	20xØ6.5 (HxOD)	
Insulation tape	Width 19 mm	
Contraction tube (mm)	70xØ8.0 (LxOD)	

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

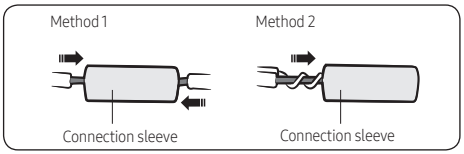
⚠ CAUTION

- For information about the power cable specifications for indoor and outdoor units, refer to the installation manual.
- After peeling off cable wires from the pre-installed tube, insert a contraction tube.
- If cable wires are connected without using connecting sleeves, their contact area becomes reduced, or corrosion develops on the outer surfaces of the wires (copper wires) over a long time. This may cause an increase of resistance (reduction of passing current) and consequently may result in a fire.



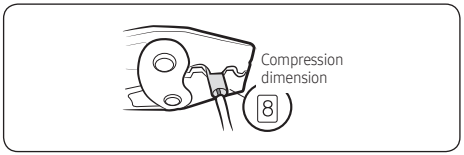
3 Insert both sides of core wire of the power cable into the connection sleeve.

- **Method 1**: Push the core wire into the sleeve from both sides.
- **Method 2**: Twist the wire cores together and push it into the sleeve.

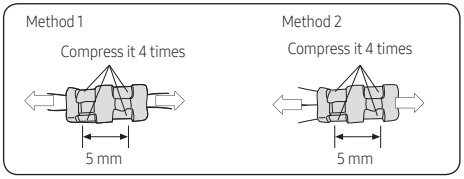


4 Using a crimping tool, compress the two points and flip it over and compress another two points in the same location.

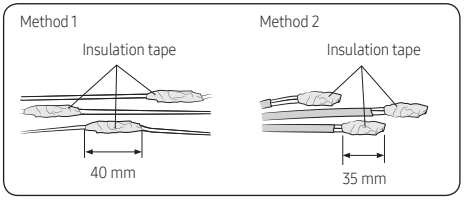
- The compression dimension should be 8.0.



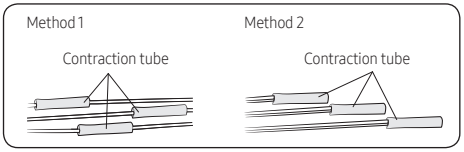
- After compressing it, pull both sides of the wire to make sure it is firmly pressed.



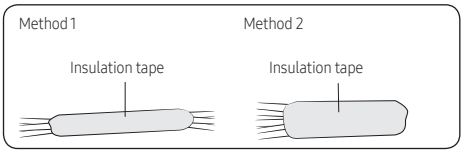
5 Wrap it with the insulation tape twice or more and position your contraction tube in the middle of the insulation tape.



6 Apply heat to the contraction tube to contract it.



7 After tube contraction work is completed, wrap it with the insulation tape to finish.
Three or more layers of insulation are required.

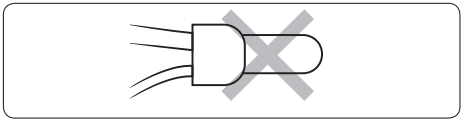


⚠ CAUTION

- Make sure that the connection parts are not exposed to outside.
- Be sure to use insulation tape and a contraction tube made of approved reinforced insulating materials that have the same level of withstand voltage with the power cable. (Comply with the local regulations on extensions.)

⚠ WARNING

- In case of extending the electric wire, please DO NOT use a round-shaped Pressing socket.
  - Incomplete wire connections can cause electric shock or a fire.

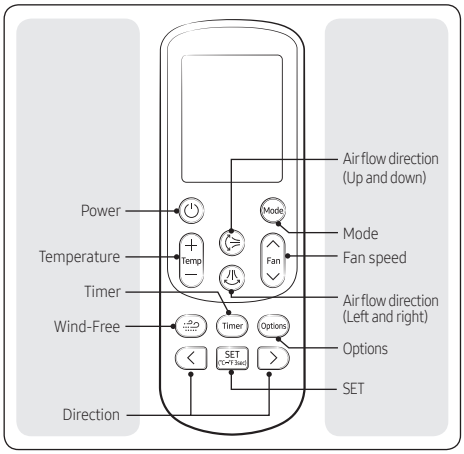


Installation Procedure

Step 13 Setting an indoor unit address and installation option

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

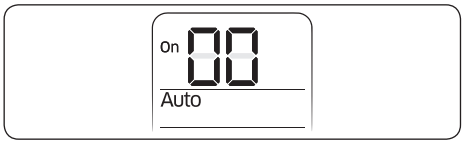
Option setting procedure



1 Remove batteries from the remote control.

2 Insert batteries and enter the option setting mode while pressing (High Temp button) and (Low Temp button).

3 Check if you have entered the option setting status.

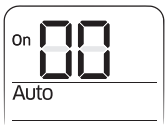


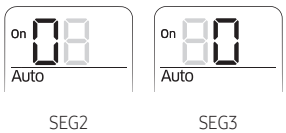
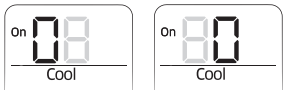
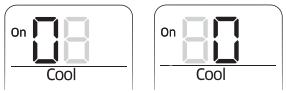
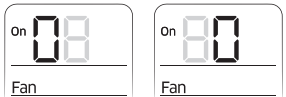
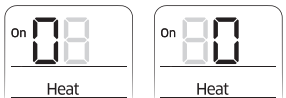
4 After entering the option setting status, select the option.

⚠ CAUTION

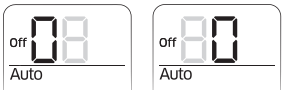
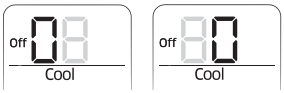
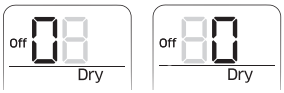
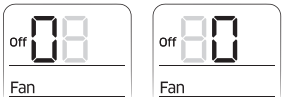
- Option setting is available from SEG1 to SEG24
- SEG1, SEG7, SEG13, SEG19 are not set as page option.
- Set the SEG2~SEG6, SEG8~SEG12 as ON status and SEG14~18, SEG20~24 as OFF status.

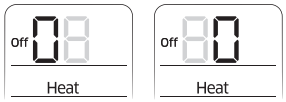
SEG1	SEG2	SEG3	SEG4	SEG5	SEG6
0	X	X	X	X	X
SEG7	SEG8	SEG9	SEG10	SEG11	SEG12
1	X	X	X	X	X
SEG13	SEG14	SEG15	SEG16	SEG17	SEG18
2	X	X	X	X	X
SEG19	SEG20	SEG21	SEG22	SEG23	SEG24
3	X	X	X	X	X

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

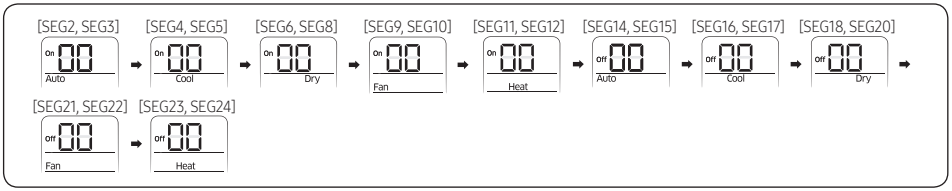
Option setting	Status
1 Setting SEG2, SEG3 option **a** Press Low Fan button to enter SEG2 value. **b** Press High Fan button to enter SEG3 value. Each time you press the button, 0 → 1 → ··· E → F will be selected in rotation.	 SEG2 SEG3
2 Setting **Cool** mode Press **Mode** button to be changed to **Cool** mode in the ON status.	
3 Setting SEG4, SEG5 option **a** Press Low Fan button to enter SEG4 value. **b** Press High Fan button to enter SEG5 value. Each time you press the button, 0 → 1 → ··· E → F will be selected in rotation.	 SEG4 SEG5
4 Setting **Dry** mode Press **Mode** button to be changed to **Dry** mode in the ON status.	
5 Setting SEG6, SEG8 option **a** Press Low Fan button to enter SEG6 value. **b** Press High Fan button to enter SEG8 value. Each time you press the button, 0 → 1 → ··· E → F will be selected in rotation.	 SEG6 SEG8
6 Setting **Fan** mode Press **Mode** button to be changed to **Fan** mode in the ON status.	
7 Setting SEG9, SEG10 option **a** Press Low Fan button to enter SEG9 value. **b** Press High Fan button to enter SEG10 value. Each time you press the button, 0 → 1 → ··· E → F will be selected in rotation.	 SEG9 SEG10
8 Setting **Heat** mode Press **Mode** button to be changed to **Heat** mode in the ON status.	
9 Setting SEG11, **SEG12** option **a** Press Low Fan button to enter SEG11 value. **b** Press High Fan button to enter SEG12 value. Each time you press the button, 0 → 1 → ··· E → F will be selected in rotation.	 SEG11 SEG12

Installation Procedure

Option setting	Status
10 Setting **Auto** mode Press **Mode** button to be changed to **Auto** mode in the OFF status.	
11 Setting SEG14, SEG15 option **a** Press Low Fan button to enter SEG14 value. **b** Press High Fan button to enter SEG15 value. Each time you press the button, 0 → 1 → ··· E → F will be selected in rotation.	 SEG14 SEG15
12 Setting **Cool** mode Press **Mode** button to be changed to **Cool** mode in the OFF status.	
13 Setting SEG16, SEG17 option **a** Press Low Fan button to enter SEG16 value. **b** Press High Fan button to enter SEG17 value. Each time you press the button, 0 → 1 → ··· E → F will be selected in rotation.	 SEG16 SEG17
14 Setting **Dry** mode Press **Mode** button to be changed to **Dry** mode in the OFF status.	
15 Setting SEG18, SEG20 option **a** Press Low Fan button to enter SEG18 value. **b** Press High Fan button to enter SEG20 value. Each time you press the button, 0 → 1 → ··· E → F will be selected in rotation.	 SEG18 SEG20
16 Setting **Fan** mode Press **Mode** button to be changed to **Fan** mode in the OFF status.	
17 Setting SEG21, SEG22 option **a** Press Low Fan button to enter SEG21 value. **b** Press High Fan button to enter SEG22 value. Each time you press the button, 0 → 1 → ··· E → F will be selected in rotation.	 SEG21 SEG22
18 Setting **Heat** mode Press **Mode** button to be changed to **Heat** mode in the OFF status.	

Option setting	Status
19 Setting SEG23, SEG24 option **a** Press Low Fan button to enter SEG23 value. **b** Press High Fan button to enter SEG24 value. Each time you press the button, 0 → 1 → ··· E → F will be selected in rotation.	 SEG23 SEG24

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



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

7 Check operation.

a Reset the indoor unit by pressing the **RESET** button of indoor unit or outdoor unit.

b Take the batteries out of the remote control and insert them again and then press the operation button.

Installation Procedure

Setting an indoor unit address (MAIN/RMC)

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

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

Option	SEG1		SEG2		SEG3		SEG4		SEG5		SEG6	
Explanation	PAGE		Mode		Setting Main address		100-digit of indoor unit address		10-digit of indoor unit		The unit digit of an indoor unit	
Indication and Details	Indication	Details	Indication	Details	Indication	Details	Indication	Details	Indication	Details	Indication	Details
	0		A		0	No Main address	0~9	100-digit	0~9	10-digit	0~9	A unit digit
					1	Main address setting mode						
Option	SEG7		SEG8		SEG9		SEG10		SEG11		SEG12	
Explanation	PAGE		-		Setting RMC address		-		Group channel (*16)		Group address	
Indication and Details	Indication	Details			Indication	Details			Indication	Details	Indication	Details
	1				0	No RMC address			RMC1	0~F	RMC2	0~F
					1	RMC address setting mode						

⚠ CAUTION

- When A~F is entered to SEG5~6, the indoor unit MAIN ADDRESS is not changed.
- If you set the SEG3 as 0, the indoor unit will maintain the previous MAIN ADDRESS even if you input the option value of SEG5~6.
- If you set the SEG9 as 0, the indoor unit will maintain previous RMC ADDRESS even if you input the option value of SEG11~12.
- You cannot set SEG11 and SEG12 as F value at the same time.

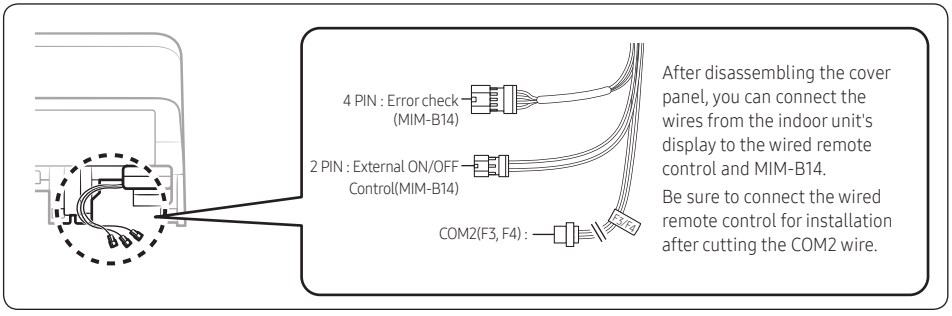
Setting an indoor unit installation option (suitable for the condition of each installation location)

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

02 series installation option

SEG1	SEG2	SEG3	SEG4	SEG5	SEG6
0	2	-	External room temperature sensor / Minimizing fan operation when thermostat is off	Central control	-
SEG7	**SEG8**	**SEG9**	**SEG10**	**SEG11**	**SEG12**
1	Use of drain pump	-	-	EEV Step when heating stops	Dew removal operation in Wind-Free mode / Evaporator Drying fan mode / Auto fan smart comfortable mode
SEG13	**SEG14**	**SEG15**	**SEG16**	**SEG17**	**SEG18**
2	External control	Setting the output of external control / External heater signal / Cooling operation signal / Free Cooling control signal	-	Buzzer	Number of hours using filter
SEG19	**SEG20**	**SEG21**	**SEG22**	**SEG23**	**SEG24**
3	Individual control of a remote control	Heating setting compensation / Removing condensated water in heating mode	EEV Step of stopped unit during oil return/defrost mode	-	-

- When setting the option other than above SEG values, the option will be set as "0".
- SEG5 central control option is basically set as 1 (Use), so you don't need to set the central control option additionally.
- However, if the central control is not connected but it doesn't indicate an error message, you need to set the central control option as 0 (Disuse) to exclude the indoor unit from the central control.
- The external output of SEG15 is generated by MIM-B14 connection. (Refer to the manual of MIM-B14.)
- If you set the Maximum filter usage time (SEG18) option to a value other than 2 and 6, it is automatically set to 2 (1000 hours).
- If you set the Individual control with remote control (SEG20) option to a value other than 0 to 4, it is automatically set to 0 (Indoor 1).



After disassembling the cover panel, you can connect the wires from the indoor unit's display to the wired remote control and MIM-B14.

Be sure to connect the wired remote control for installation after cutting the COM2 wire.

Installation Procedure

02 series installation option (Detailed)

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

Option	SEG1		SEG2		SEG3	SEG4		
Explanation	PAGE		Mode			Use of external room temperature sensor / Minimizing fan operation when thermostat is off		
Indication and Details	Indication	Details	Indication	Details	-	Indication	Details	
							Use of external room temperature sensor	Minimizing fan operation when thermostat is off
	0		2			0	Default	Default
						1	Use	Disuse
						2	Disuse	Use (Heating) (*1)
						3	Use	Use (Heating) (*1)
						4	Disuse	Use (Cooling) (*1)
						5	Use	Use (Cooling) (*1)
						6	Disuse	Use (Heating / Cooling) (*1)
						7	Use	Use (Heating / Cooling) (*1)
						8	Disuse	Use (Cooling Ultra Low Fan) (*1)
						9	Use	Use (Cooling Ultra Low Fan) (*1)
						A	Disuse	Use (Heating / Cooling Ultra Low Fan) (*1)
						B	Use	Use (Heating / Cooling Ultra Low Fan) (*1)

Option	SEG5		SEG6	SEG7		SEG8	
Explanation	Use of central control			PAGE		Use of drain pump (*2)	
Indication and Details	Indication	Details	-	Indication	Details	Indication	Details
	0	Disuse		1		0	Disuse
	1	Use				8	External drain pump signal use

<table>
<tr><td>Option</td><td>SEG9</td><td>SEG10</td><td colspan="2">SEG11</td><td colspan="5">SEG12</td></tr>
<tr><td>Explanation</td><td rowspan="10">-</td><td rowspan="10">-</td><td colspan="2">EEV Step when heating stops</td><td colspan="5">Dew removal operation in Wind-Free mode / Auto Evaporator Drying fan mode / Auto fan smart comfortable mode</td></tr>
<tr><td rowspan="10">Indication and Details</td><td>Indication</td><td>Details</td><td>Indication</td><td colspan="2">Dew removal operation in Wind-Free</td><td>Auto Evaporator Drying fan mode</td><td>Auto fan smart comfortable</td></tr>
<tr><td>0</td><td>Default value</td><td>0 (Default)</td><td colspan="2">Maintain blade status in Wind-Free mode</td><td>Use every fan mode</td><td>Use</td></tr>
<tr><td>1</td><td>Stopped Unit's Noise Decreasing Setting</td><td>1</td><td colspan="2">Cooling operation by opening the blade</td><td>Use every fan mode</td><td>Use</td></tr>
<tr><td rowspan="7">2~B</td><td rowspan="7">Running Unit's Noise Decreasing Setting (*3)</td><td>2</td><td colspan="2">Maintain blade status in Wind-Free mode</td><td>Use only Wind-Free mode</td><td>Use</td></tr>
<tr><td>3</td><td colspan="2">Cooling operation by opening the blade</td><td>Use only Wind-Free mode</td><td>Use</td></tr>
<tr><td>4</td><td colspan="2">Maintain blade status in Wind-Free mode</td><td>Use every fan mode</td><td>Disuse</td></tr>
<tr><td>5</td><td colspan="2">Cooling operation by opening the blade</td><td>Use every fan mode</td><td>Disuse</td></tr>
<tr><td>6</td><td colspan="2">Maintain blade status in Wind-Free mode</td><td>Use only Wind-Free mode</td><td>Disuse</td></tr>
<tr><td>7</td><td colspan="2">Cooling operation by opening the blade</td><td>Use only Wind-Free mode</td><td>Disuse</td></tr>
<tr><td>Option</td><td colspan="2">SEG13</td><td colspan="2">SEG14</td><td colspan="3">SEG15</td><td>SEG16</td></tr>
<tr><td>Explanation</td><td colspan="2">PAGE</td><td colspan="2">Use of external control</td><td colspan="3">Setting the output of external control / External heater signal / Cooling operation signal / Free Cooling control signal</td><td rowspan="10">-</td></tr>
<tr><td rowspan="9">Indication and Details</td><td>Indication</td><td>Details</td><td>Indication</td><td>Details
Use of external control</td><td>Indication</td><td colspan="2">Details</td></tr>
<tr><td rowspan="8">2</td><td rowspan="2">0</td><td rowspan="2">Disuse</td><td>0</td><td colspan="2">External control (Thermo On)</td></tr>
<tr><td>1</td><td colspan="2">External control (Operation On)</td></tr>
<tr><td rowspan="2">1</td><td rowspan="2">ON/OFF control</td><td>2</td><td colspan="2">External heater signal (*4)</td></tr>
<tr><td>3</td><td colspan="2">External heater signal (*4)</td></tr>
<tr><td rowspan="2">2</td><td rowspan="2">OFF control</td><td>4</td><td colspan="2">Cooling operation signal (*5)</td></tr>
<tr><td>5</td><td colspan="2">Free Cooling control (Cooling Thermo On) (*6)</td></tr>
<tr><td>3</td><td>Window ON/OFF control</td><td>6</td><td colspan="2">Free Cooling control (Cooling/Dry Thermo On) (*6)</td></tr>
</table>

Installation Procedure

<table>
<tr><td>Option</td><td colspan="2">SEG17</td><td colspan="2">SEG18</td><td colspan="2">SEG19</td><td colspan="2">SEG20</td></tr>
<tr><td>Explanation</td><td colspan="2">Buzzer control</td><td colspan="2">Hours of filter usage</td><td colspan="2">PAGE</td><td colspan="2">Individual control of a remote control</td></tr>
<tr><td rowspan="7">Indication and Details</td><td>Indication</td><td>Details</td><td>Indication</td><td>Details</td><td>Indication</td><td>Details</td><td>Indication</td><td>Details</td></tr>
<tr><td>0</td><td>Use buzzer</td><td>2</td><td>1000 Hour</td><td rowspan="4">3</td><td></td><td>0 or1</td><td>channel 1</td></tr>
<tr><td rowspan="3">1</td><td rowspan="3">Disuse buzzer</td><td rowspan="3">6</td><td rowspan="3">2000 Hour</td><td></td><td>2</td><td>channel 2</td></tr>
<tr><td></td><td>3</td><td>channel 3</td></tr>
<tr><td></td><td>4</td><td>channel 4</td></tr>
<tr><td>Option</td><td colspan="3">SEG21</td><td colspan="3">SEG22</td><td>SEG23</td><td>SEG24</td></tr>
<tr><td>Explanation</td><td colspan="3">Heating setting compensation / Removing condensated water in heating mode</td><td colspan="3">EEV Step of stopped unit during oil return/ defrost mode</td><td rowspan="9">-</td><td rowspan="9">-</td></tr>
<tr><td rowspan="8">Indication and Details</td><td rowspan="2">Indication</td><td colspan="2">Details</td><td rowspan="2">Indication</td><td rowspan="2" colspan="2">Details</td></tr>
<tr><td>Heating Setting Compensation</td><td>Removing Condensated Water in Heating Mode</td></tr>
<tr><td>0</td><td>Default (*7)</td><td>Disuse</td><td rowspan="3">0</td><td rowspan="3" colspan="2">Default value</td></tr>
<tr><td>1</td><td>2 °C</td><td>Disuse</td></tr>
<tr><td>2</td><td>5 °C</td><td>Disuse</td></tr>
<tr><td>3</td><td>Default (*7)</td><td>Use (*8)</td></tr>
<tr><td>4</td><td>2 °C</td><td>Use (*8)</td><td rowspan="2">1</td><td rowspan="2" colspan="2">Oil return or Noise decreasing in defrost mode</td></tr>
<tr><td>5</td><td>5 °C</td><td>Use (*8)</td></tr>
</table>

(*1) Minimizing fan operation when thermostat is off

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

(*2) If external drain pump signal is used, external control (SEG14) can't be used.

(*3) It is only for wall-mounted indoor unit with EEV Integrated. If any design condition meets either of the following below, please set SEG11 to "7".

a The total number of wall-mounted indoor units with EEV Integrated in one (modular) system is more than 20.

b The total number of wall-mounted indoor units with EEV Integrated in one (modular) system is more than "the total of one (modular) system's capacity(kW) / 2" ("the total of one (modular) system's capacity (BTU/h) / 6800").
ex) Outdoor capacity 28kW → 28 /2 = 14. The total number of wall-mounted indoor units with EEV Integrated in one (modular) system is more than 14.

Please refer to the EEV step table below for the system (for heating) at stop.

Indication			0	2	3	4	5	6	7	8	9	A	B
Stopped Unit's EEV step	Wall MountedWith EEV	A Step	100	90	100	110	120	130	160	200	250	300	400
		B Step	125	160	160	160	160	160	160	200	250	300	400
	Other Indoor Units except for wall mounted with EEV		Default	No Function									

(*4) When the following 2 or 3 is used as external heater On/Off signal, the signal for monitoring external contact control will not be output.
2: Fan is turned on continually when the external heater is turned on.
3: Fan is turned off when the external heater is turned on with cooling only indoor unit
Cooling only indoor unit: To use this option, install the Mode Select switch(MCM-C200) on the outdoor unit and fix it as cool mode.

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

(*5) When indoor unit is in cooling or Dry mode, The output signal is "ON"

(*6) For free cooling control, Economizer controller is required.

(*7) Default setting value

- 4Way Cassette, Mini 4Way Cassette: 5 °C
- Other indoor units: 2 °C

(*8) This function can be applied to 4 Way Cassette and Mini 4 Way Cassette only. If the air conditioner operates the heating mode immediately after finishing the cooling mode, the condensated water in the drain pan becomes water vapor by the heat of the indoor unit heat exchanger. Since the water vapor might be condensed on the indoor unit, which may fall into a living space, use this function to get rid of the water vapor out of the indoor unit by operating the fan (for maximum 20 minutes) even when the indoor unit is turned off after cooling mode is turned to heating mode.

Installation Procedure

05 series installation option

SEG1	SEG2	SEG3	SEG4	SEG5	SEG6
0	5	Use of Auto Change Over for HR only in Auto mode / Use of Cooling only indoor unit of HR	(When setting SEG3) Standard heating temp. Offset	(When setting SEG3) Standard cooling temp. Offset	(When setting SEG3) Standard for mode change Heating → Cooling
SEG7	**SEG8**	**SEG9**	**SEG10**	**SEG11**	**SEG12**
1	(When setting SEG3) Standard for mode change Cooling → Heating	(When setting SEG3) Time required for mode change	Compensation option for Long pipe or height difference between indoor units	MTFC	-
SEG13	**SEG14**	**SEG15**	**SEG16**	**SEG17**	**SEG18**
2	-	-	-	-	Control variables when using hot water / external heater (*4)
SEG19	**SEG20**	**SEG21**	**SEG22**	**SEG23**	**SEG24**
3	-	-	-	Forced FAN Operation for Heating and Cooling	-

05 series installation option (Detailed)

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

Option	SEG1		SEG2		SEG3		SEG4		SEG5		SEG6	
Explanation	PAGE		MODE		Use of Auto Change Over for HR only in Auto mode / Use of Cooling only indoor unit of HR		(When setting SEG3) Standard heating temp. Offset		(When setting SEG3) Standard cooling temp. Offset		(When setting SEG3) Standard for mode change Heating → Cooling	
Indication and Details	Indication	Details	Indication	Details	Indication	Details	Indication	Details	Indication	Details	Indication	Details
	0		5		0	Follow product option	0	0 °C	0	0 °C	0	1 °C
							1	0.5 °C	1	0.5 °C	1	1.5 °C
					1	Use Auto Change Over for HR only	2	1 °C	2	1 °C	2	2 °C
							3	1.5 °C	3	1.5 °C	3	2.5 °C
							4	2 °C	4	2 °C	4	3 °C
					2	Use Cooling only indoor unit for HR	5	2.5 °C	5	2.5 °C	5	3.5 °C
							6	3 °C	6	3 °C	6	4 °C
							7	3.5 °C	7	3.5 °C	7	4.5 °C

Option	SEG7		SEG8		SEG9		SEG10		SEG11		SEG12
Explanation	PAGE		(When setting SEG3) Standard for mode change Cooling → Heating		(When setting SEG3) Time required for mode change		Compensation option for Long pipe or height difference between indoor units		MTFC (*3)		
Indication and Details	Indication	Details	Indication	Details	Indication	Details	Indication	Details	Indication	Details	-
	1		0	1 °C	0	5min	0	Default	0	Default	
			1	1.5 °C	1	7min	1	(*1) Height difference is more than 30m or (*2) Distance is longer than 110m			
			2	2 °C	2	9min					
			3	2.5 °C	3	11min					
			4	3 °C	4	13min	2	(*1) Height difference is 15~30m or (*2) Distance is 50~110m	2	Use	
			5	3.5 °C	5	15min					
			6	4 °C	6	20min					
			7	4.5 °C	7	30min					

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

Installation Procedure

Option	SEG19		SEG20	SEG21	SEG22	SEG23			SEG24
Explanation	PAGE					Forcing FAN Operation for Heating and Cooling			
	Indication	Details				Indication	Details		
							Cooling Fan Setting	Heating Fan Setting	
Indication and Details	3		-	-	-	0	Disuse	Disuse	-
						1	Disuse	Use (Fan: User setting)	
						2	Disuse	Use (Fan: High)	
						3	Disuse	Use (Fan: Low)	
						4	Use (Fan: User setting)	Disuse	
						5	Use (Fan: User setting)	Use (Fan: User setting)	
						6	Use (Fan: User setting)	Use (Fan: High)	
						7	Use (Fan: User setting)	Use (Fan: Low)	
						8	Use (Fan: High)	Disuse	
						9	Use (Fan: High)	Use (Fan: User setting)	
						A	Use (Fan: High)	Use (Fan: High)	
						B	Use (Fan: High)	Use (Fan: Low)	
						C	Use (Fan: Low)	Disuse	
						D	Use (Fan: Low)	Use (Fan: User setting)	
						E	Use (Fan: Low)	Use (Fan: High)	
						F	Use (Fan: Low)	Use (Fan: Low)	

(*1) Height difference : The difference of the height between the corresponding indoor unit and the indoor unit installed at the lowest place. For example, When the indoor unit is installed 40m higher than the indoor unit installed at the lowest place, select the option "1".

(*2) Distance : The difference between the pipe length of the indoor unit installed at farthest place from an outdoor unit and the pipe length of the corresponding indoor unit from an outdoor unit. For example, when the farthest pipe length is 100 m and the corresponding indoor unit is 40 m away from an outdoor unit, select the option "2". (100 - 40 = 60m)

(*3) For MTFC option, MTFC(Multi Tenant Function Controller) kit is required.

(*4) Heater operation when the SEG9 of 02 series installation option is set to using hot water heater or when SEG15 is set to using external heater

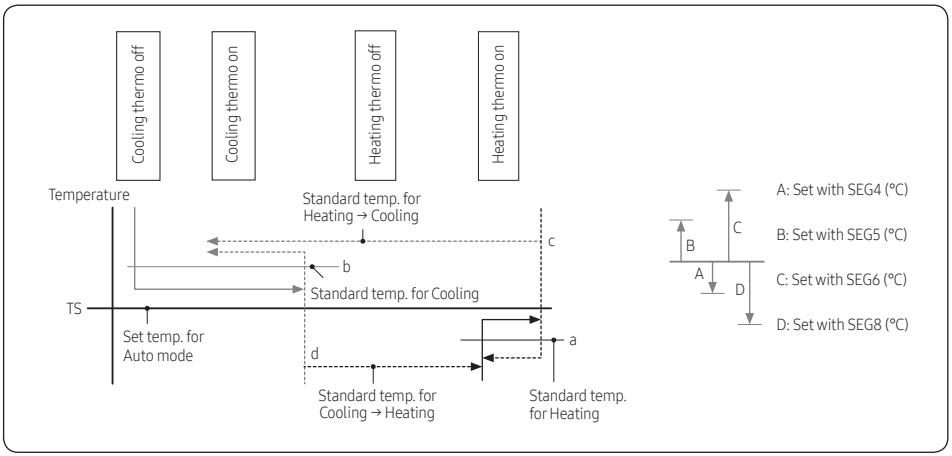
e.g. 1) Setting 02 series SEG9 ="1" / Setting 05 series SEG18 = "0": Hot water heater is turned on at the same time as the heating thermostat is on, and turned off when the heating thermostat is off.

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

- Room temp. ≤ set temp. + f (heating compensation temp.)
  External heater is turned on when the temperature is maintained as 4.5 °C for 10 minutes.
- Room temp. > set temp. + f (heating compensation temp.)
  External heater is turned off when the temperature is maintained as 4.5 °C + 1 °C (1 °C is the Hysteresis for On/Off selection.)

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

When the SEG3 is set as "1" and follow Auto Change Over for HR only operation, it will operate as follows.



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

Installation Procedure

Changing a particular option

You can change each digit of set option.

Option	SEG1		SEG2		SEG3		SEG4		SEG5		SEG6	
Explanation	PAGE		MODE		The option mode you want to change		The tens' digit of an option SEG you will change		The unit digit of an option SEG you will change		Changed value	
Indication and Details	Indication	DetailsI	Indication	Details	Indication	Details	Indication	Details	Indication	Details	Indication	Details
	0		D		Option mode	1~6	Tens' digit of SEG	0~9	Unit digit of SEG	0~9	The changed value	0~F

NOTE

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

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

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

CAUTION

- If you are using heat pump model, mixed operation mode (two or more indoor units operating in different operation mode simultaneously) is not available when the indoor units are connected to same outdoor unit. If you set the master indoor unit with a remote control, outdoor unit will operate in the mode which was set in the master indoor unit.

Step 14 Performing the final check

To complete the installation, perform the following checks and tests to ensure that the air conditioner operates correctly.

1 Check the following:
- Strength of the installation site
- Tightness of pipe connection to detect gas leak
- Electric wiring connection
- Heat-resistant insulation of the pipe
- Drainage
- Grounding conductor connection
- Correct operation (follow the steps below)

2 Press the button and check the following:
- The indicator on the indoor unit lights up.
- The airflow blade opens and the fan gears up for operation.

3 Press any button and check the following:
- The appropriate indicator lights up and the air conditioner operates according to the selected mode or function.

4 Press the button and check the following:
- The airflow blades work properly.

5 Press the button and check the following:
- The airflow blades work properly.

NOTE

- The button is only for Wind-Free models.

Step 15 Providing information for user

After finishing the installation of the air conditioner, you should explain the following to the user. Refer to appropriate pages in the user & installation manual.

1 How to start and stop the air conditioner
2 How to select the modes and functions
3 How to adjust the temperature and fan speed
4 How to adjust the airflow direction
5 How to set the timers
6 How to clean and replace the filters

NOTE

- When you complete the installation successfully, hand over the user & installation manual to the user for storage in a handy and safe place.

Troublshooting

If a problem occurs to the air conditioner, the following error codes will appear on the display of the indoor unit or outdoor unit.

Error detection and re-operation

- If an error occurs during operation, an error code will appear and all the operations are stopped except the display panel.
- If you re-operate the air conditioner by a remote controller or switch, it will operate normally at first, then detect an error.

Detected errors indicated on display

Error description	Error code
Error on indoor room temperature sensor (Open/short)	E121
1. Error on Eva-in sensor (Open/short)	E122
2. Error on Eva-out sensor (Open/short)	E123
3. Error on Indoor Fan	E154
1. Error on outdoor temperature sensor	E221
2. Error on cond sensor	E237
3. Error on discharge sensor	E251
Other outdoor unit sensor errors that are not on the above list	
1. When there is no communication between the indoor and outdoor units for 2 minutes	E101
2. Communication error received from the outdoor unit	E102
3. 3 minute tracking error on outdoor unit	E202
4. Communication error after tracking due to unmatching number of installed units	E201
5. Error due to using the same communication address twice.	E108
6. Error due to incomplete communication address setting	E109
Other outdoor unit communication errors that are not on the above list	
Self diagnosis error display	
1. Error due to opened EEV (2nd detection)	E151
2. Error due to closed EEV (2nd detection)	E152
3. Eva in sensor is detached	E128
4. Eva out sensor is detached	E129
5. Thermal Fuse Open Error	E198

Error description	Error code
1. COND mid sensor is detached	E241
2. Refrigerant leakage (2nd detection)	E554
3. Abnormally high temperature on Cond (2nd detection)	E450
4. Low pressure s/w (2nd detection)	E451
5. Abnormally high temperature on discharged air on outdoor unit (2nd detection)	E416
6. Indoor unit shut-down due to unconfirmed error on outdoor unit	E559
7. Error due to reverse phase detection	E425
8. Comp stop due to freeze detection (6th detection)	E403
9. High pressure sensor is detached	E301
10. Low pressure sensor is detached	E306
11. Outdoor unit compression ratio error	E428
12. Outdoor sump down_1 protection control	E413
13. Compressor down due to low pressure sensor protection control_1	E410
14. Simultaneous opening of cooling/heating MCU SOL valve (1st detection)	E180
15. Simultaneous opening of cooling/heating MCU SOL valve (2nd detection)	E181
Other outdoor unit self-diagnosis errors that are not on the above list	
External contact input error	E665
EEPROM error	E162
EEPROM option error	E163
Error due to incompatibility with an indoor unit that special consumption tax is applied.	E164

- If you turn off the air conditioner when the error display is on, all the displays are turned off.
- If you re-operate the air conditioner, it will operate normally at first, then detect and display an error again.
- When E108 error occurs, change the address and reset the system.
  e.g. When the address of the indoor unit #1 and #2 are set as 5, address of the indoor unit #1 will become 5 and indoor unit #2 will display E108, A002.
- The E665 error occurs when the 02 series installation option (SEG8) is set to "External drain pump use" and the external contact input (MIM-B14) is open.

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