AF✳✳FSSDA✳✳ Series
AF✳✳FSZDA✳✳ Series

Air Conditioner
installation manual

imagine the possibilities

Thank you for purchasing this Samsung product.

EN ES FR IT PT DE EL DB68-04036A-04

SAMSUNG

Contents

Safety precautions

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.

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

- Installation must be carried out by a qualified installer.
  - Do not attempt to repair, move, modify or reinstall the unit on your own since such act may cause fire, electric shock or water leakage.
- Install the unit in a place where it is strong enough to hold the product weight.
  - When installed in place where it is not strong enough to withhold the product weight, the unit could fall and cause injury.
- The unit should be installed in accordance with the National Electrical regulations by a qualified installer and leased circuit must be used.
  - Lack of capacity on leased circuit or improper installation may cause electric shock or fire.
- Use the specified wires to connect the indoor and outdoor units securely and attach the wires firmly to the terminal block connecting sections so that the pressure is not applied to the sections.
  - Inappropriate connection and fixing could cause fire.
- Attach the electrical cover to the indoor and outdoor unit securely without any gaps.
  - If there are any gaps, there is potential risk of fire or electric shock due to dust or water.
- Make sure to use the part provided or specified parts for the installation work.
  - The use of defective parts could cause an injury or leakage of water due to a fire, an electric shock, the unit falling, etc.
- Make sure that the refrigerant gas does not leak after completing the installation.
  - If the refrigerant gas comes into contact with the heating apparatus, harmful gas will be generate.
  - If the refrigerant gas of the indoor unit leaks and comes into contact with the fan heater, space heater or stove, harmful gas will be generated.
- Ensure that a proper ground wire is in place.
  - Do not connect the ground wire to a gas pipe, water pipe, lightning rod or telephone grounding. Defective grounding could cause electric shock.
- Do not install the unit in a place where it is exposed to inflammable gas leakage.
  - When leaked gas accumulates around the product, it may cause fire.

Safety precautions

WARNING

- Perform the installation securely referring to the installation manual.
  - Incomplete installation could cause water leakage, electric shock or fire.
- Check first the following situations before starting the operation during the installation.
  - The pipe must be properly connected and make sure there is no leakage.
  - Service valves must be open. If compressor is operated with the service valve closed, excessive pressure may damage parts of the compressor. If leakage occurs on any of the connections, air inflow may also cause excessive pressure that could lead to explosion.
- Do not assemble the power cord on your own, use two cables together to extend the cable length or tangle the cable.
  - Bad connection, isolation and over voltage may cause fire or electric shock.
- Make sure to turn off the main power when setting up the indoor unit electrical circuit or power cords.
  - There is a risk of electric shock.
- Install a ground leakage breaker depending on the installation place.
  - If not, it may cause electric shock.
- Never use the components and pipes for R-22 refrigerant on the models using R-410A refrigerant.
  - If the oil used for R-410A gets mixed with the mineral oil for R-22, it will get hydrolyzed and cause product damage.

CAUTION

- Check if the product is in good shape before the installation.
  - Do not install the product with the damage which occurred during shipment.
- Read the installation manual thoroughly before installing the air conditioner.
- Before installing the air conditioner, make sure to discuss the location selection and the precautions on the installation manual with the user.
- Perform the drainage/piping work securely according to the installation manual.
  - If not, water could drip from the unit and household goods could get wet and damaged.
- Fasten a flare nut with a torque wrench as specified in this installation manual.
  - When fastened too tightly, a flare nut may break after a long period of time and cause refrigerant leakage.
- Wear thick gloves during the installation process.
  - If not, personal injury may occur due to the air conditioner parts.
- Be careful not to touch the outdoor unit inlet or aluminium pins.
  - You may get personal injury.
- Do not install the outdoor unit in a place where animals could live.
  - If an animal comes into contact with the electric parts, damage or fire may occur. In addition ask the customer to maintain a clean installation place around it.
- After completing the installation, run the trial operation. If no error occurs, explain to the customer how to use and clean the air conditioner according to the user's manual. In addition give the installation manual and the user's manual to the customer.

- ▶ Do not open the front panel of the indoor unit during operation.
  - It may cause damage to the product.
- ▶ Check the product before installing it.
  - Check the unit for damage that may have taken place during transportation and do not install or use damaged equipment.
- ▶ 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.
- ▶ Our units should be installed in compliance with the spaces shown in the installation manual, to ensure accessibility from both sides and allow repairs or maintenance operations to be carried out. The unit's components should be accessible and easy to disassemble without endangering people and objects.
- ▶ For this reason, when provisions of the installation manual are not complied with, the cost required to access and repair the units (in SAFETY CONDITIONS, as set out in prevailing regulations) with harnesses, ladders, scaffolding or any other elevation system will NOT be considered part of the warranty and will be charged to the end customer.
- ▶ All of the manufacturing and packaging material used for your new appliance are compatible with the environment and can be recycled.
- ▶ This product is an air conditioning system and contains a refrigerant that must be recovered and disposed of in an appropriate way by qualified personnel.
  - At the end of the life cycle, take it to a proper recycling or disposal center or return it to the dealer so that it can be disposed correctly.

✳ **When customer claim is caused by not following above safety precaution, installer is responsible for the claim. (Installer is responsible for the service charges.)**

Required tools

General tools

① Vacuum pump
② Torque wrench
③ Pipe cutter
④ Reamer
⑤ Pipe bender
⑥ Spirit level
⑦ Screw driver
⑧ Spanner
⑨ Drill
⑩ L wrench
⑪ Measuring tape

Tools for test operations

① Thermometer
② Resistance meter
③ Electroscope

Choosing the installation location

Indoor unit

- ▶ Install the unit at a place close to the wall facing the outside as it is necessary to perform piing connection with the outdoor unit.
  - It is effective to install the unit at the place where air flow is not blocked and the cool air can be distributed throughout the room.
- ▶ Install the unit at a place where there is no obstacle against the wind around the air intake and air outlet.
- ▶ Avoid a place near the door which is frequently used by people.
- ▶ Avoid a place exposed to direct sunlight. (If it is unavoidable, install a sunshade).
  - Surface of the product may get discolored.
- ❋ Install it on even ground.
  - Make sure there is no abnormal operation or noise generation.
  - If installed on uneven ground, water may overflow.

Outdoor unit

- ▶ Avoid a place exposed to direct sunlight. (If it is unavoidable, install a sunshade).
- ▶ A place free from the risk of combustible gas leakage.
- ▶ A place which can bear the weight of the unit.
- ▶ A place which can bear the fixing strength of the outdoor unit.
- ▶ Avoid a place exposed to oil (including machine oil)
- ▶ Avoid a saline place.
- ▶ Avoid a place exposed to sulfide gas (hot spring zone).
  - When installing the unit at such special environmental conditions, it may cause trouble to the product. When it is unavoidable, special maintenance is required.
- ▶ A place where discharged air and noise of the outdoor unit does not disturb the neighborhood.
  - Take extra care not to cause any inconvenience to your neighbors when installing the unit on the borderline with your neighborhood.
- ▶ A place where strong wind does not head against the air outlet of the outdoor unit.
  - If a strong wind heads directly against the air outlet at the time of cool operation, a safety device can be operated.
- ❋ Do not install the outdoor unit on a unstable places (such as rooftop). If installation is unavoidable, make sure that you fixed the unit firmly. Avoid places where strong wind or storm can possibly knock down the product (such as seashore or place with frequent storm)

Indoor/outdoor unit installation diagram

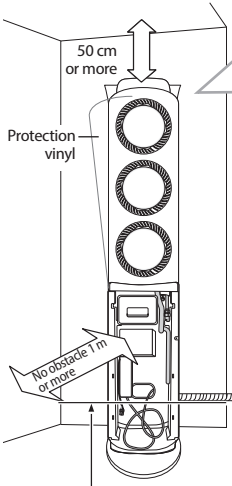
Installation space for floor type indoor unit

▶ To minimize the waste of space due to installation, install the indoor unit as shown in below figure.

- **Top view**

✻ After completing the installation, remove the protection vinyl. (Be careful of static electricity).

✻ After completing the installation, remove the protective filament film on the product.



CAUTION

- Make sure that there are no obstacles (such as curtains etc.) blocking air inlets of the indoor unit.
- Clear space on the right side of the indoor unit for possible filter maintenance in the future.

Piping length for indoor/outdoor unit installation

▶ Refer to illustration on the left for maximum allowable piping length and elevation.

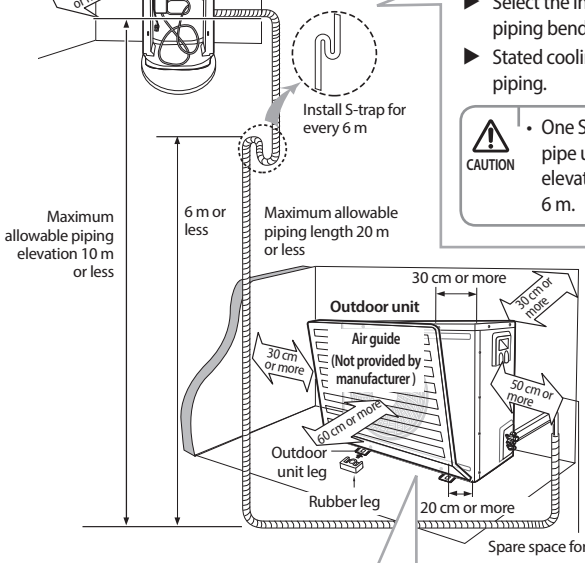
▶ Since product performance and lifespan may decrease as piping length becomes longer, try to minimize the piping length but make sure it is over 5 m.

▶ Select the installation location where you can keep the piping bending to maximum 10 spots.

▶ Stated cooling performance is based on product with 5 m piping.

CAUTION

- One S-trap must be installed on the low pressure pipe up to 6 m of piping elevation. For piping elevation that exceeds 6 m, install S-trap every 6 m.



When air guide needs to be installed to prevent the warm discharge air from disturbing the pedestrian, refer to the illustration on the right side for installation.

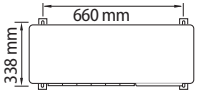
Fixing outdoor unit

Follow below method to firmly fix the outdoor unit.

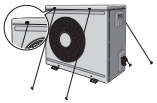
▶ Using rubber leg
- Put the rubber leg to the outdoor unit leg. (Refer to illustration on the right.)

▶ Using anchor bolt
- On a flat, rigid ground, use 4 anchor bolt (M10) to fix the unit. (Anchor bolt should be purchased separately.)
- Select the anchor bolt that is long enough to securely fix the outdoor unit.

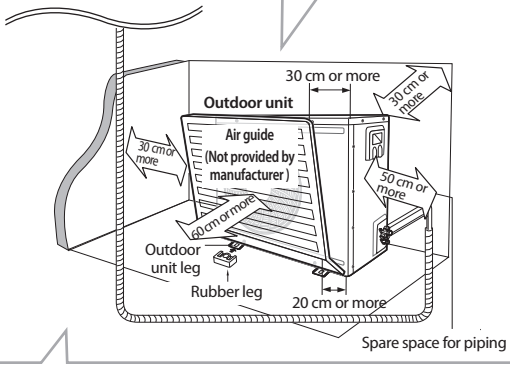
Anchor bolt fixing dimension



✻ If you need to ensure the outdoor unit from falling, use wires to fix it firmly.
- Loosen the 4 screws from the top cover of the outdoor unit.
- Put the wire around the screws and fasten the screws.
- Fix the wire on the ground.



CAUTION
- When the outdoor unit is not firmly fixed, it may fall and cause personal injury or property damage.
- When the outdoor unit is installed in water-proofed rooftop, fix the wire on the wall.

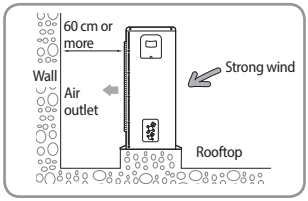


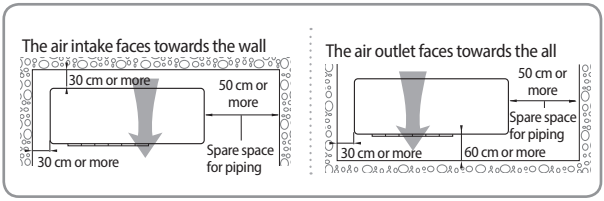
Installation space for outdoor unit

Refer to following examples for wind protection.

▶ When installing in the street with lots of buildings, install the product parallel to the street.

▶ In the places with strong wind, install the product with air outlet facing the wall.

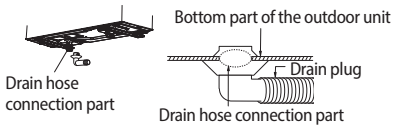




Indoor/outdoor unit installation diagram

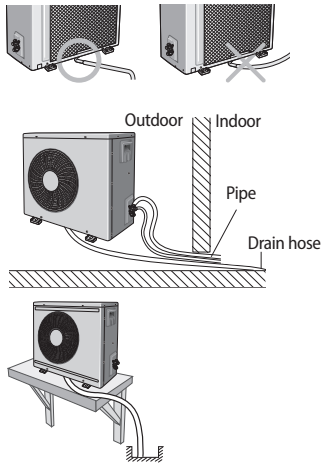
Connecting the outdoor unit drain hose

- ▶ Push the drain plug into the drain hose connection part as far as possible.
- ▶ Push the drain hose into the drain plug as far as possible and check to make sure water is drained properly.



CAUTION

- Water may leak if the drain hose is not connected properly. Therefore, check for water leakage after the installation.
- Frost may form during heating operation. Make sure to check for proper drainage in defrost operation.
- Do not install on the place where bottom part of the outdoor unit is at lower level than the drain hose.
- When installing the drain hose for draining the outdoor unit condensation of the cooling/heating product, make sure to install it so that it allows natural draining.
- When fixing the product, make sure that the product is level.
  - When the product is not in level, noise may generate due to vibration.
  - When the product is not in level, condensation that forms during heating operation may overflow instead of being drained through the drain hose and cause property damage.

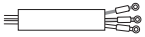
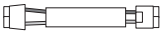
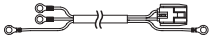


Accessories

Indoor unit accessories

Remote controller	Fixing bracket for indoor unit	Batteries	Remote controller holder
			
M4X16 screws	**User & installation manual**	**Cleaning cloth (micro fiber)**	
			

Outdoor unit accessories

Rubber leg	Main power cable	Indoor/outdoor unit communication cable	Indoor/Outdoor unit power cable
			
Drain plug			
			

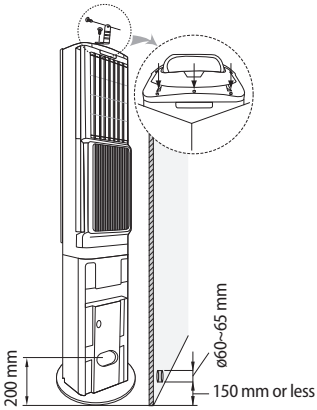
Installation accessories

Drain connection hose	Connection pipe & Insulation (Φ6.35 mm)	Connection pipe & Insulation (Φ15.88 mm)	Sleeve
			
Service tube	**Cable tie**	**Putty**	**Bushing**
			
Finishing tape	**Drain insulation tube**		
			

✻ Installation accessories may differ depending on the model.

Drilling a hole and fixing the indoor unit

- Drill a hole with diameter of 60~65 mm towards the outside.
- If the indoor unit is installed on unstable ground, it may be shaken by an external force or children, and eventually get knocked down. To prevent these accidents, you must fix the top or back of the indoor unit tightly with fixing brackets.



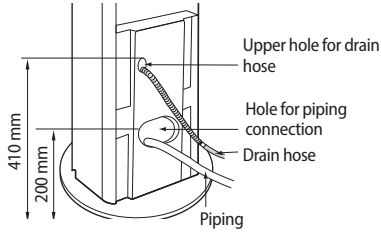
Connecting pipes

WARNING

- When installing, make sure there is no leakage. When recovering the refrigerant, stop the compressor first before removing the connection pipe. If the refrigerant pipe is not properly connected and the compressor works with the service valve open, the pipe inhales the air and it makes the pressure inside of the refrigerant cycle abnormally high. It may cause explosion and injury.

Installation procedure

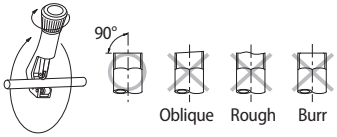
1. Slightly hit the hole, for piping connection, with your hands or hammer.



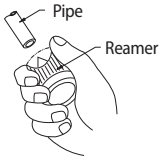
2. Bend the connection pipe to an appropriate length using a bender depending upon the installation place.
3. Perform pipe bending process.
   - Perform bending of the pipe using the pipe bender which has a specified bending radius.
   - Be sure to take full care to perform bending of the pipe successfully at one time. Bending and unbending the pipe more than twice makes the bending work increasingly difficult.
4. Connect the high pressure pipe (ø6.35 mm) and low pressure pipe (ø15.88 mm) to the high/low pressure pipe of the outdoor unit and tightening by applying appropriate torque.

▶ **Flare process**

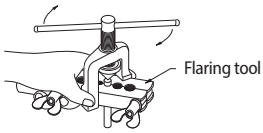
1) Cut the pipe using the pipe cutter.



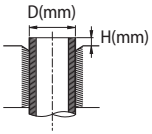
2) Remove burr on the edge of the pipe.
   - If burr is not removed after cutting the pipe, there is a risk of refrigerant gas leakage.
   - If foreign substance such as burr goes into the pipe, there is a risk of product breakdown. Therefore, face the pipe downward when doing the work.



3) Insert the flare nut into the pipe, and then perform the flare process.



▶ **Flare length**



Outer Diameter (D)	ø6.35	ø9.52	ø15.88
Height (H)	1.3 mm	1.8 mm	2.2 mm

▶ **Incorrectly flared pipes**

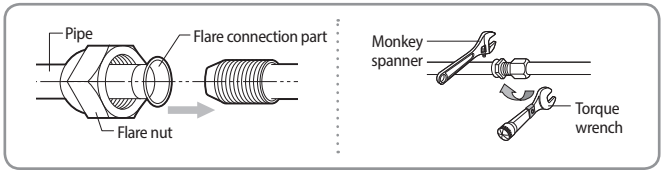
Oblique | Damaged surface | Cracked | Uneven thickness

Connecting pipes

▶ **Tightening of connection parts**

Alight the pipes to be connected and tighten the flare nuts with your hands first and then with a torque wrench, tighten it in a direction shown in below illustration.

- You can avoid of gas leakage by applying refrigerant oil on the flare connection part.



Diameter(D)	ø6.35 mm	ø9.52 mm	ø12.70 mm	ø15.88 mm
Torque (kgf•cm)	140~180	350~430	500~620	690~830

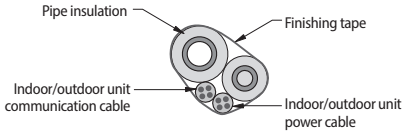
CAUTION

• Apply the torque depending on the diameter and tighten it securely to make sure there is no leakage.

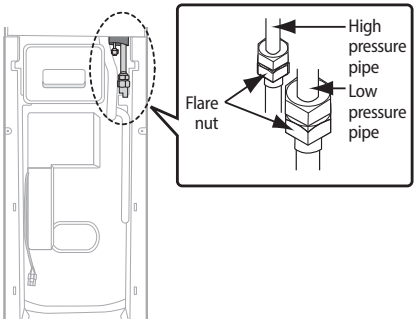
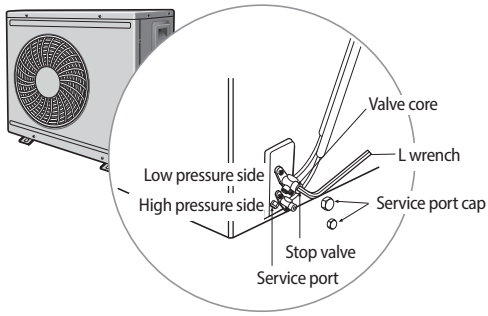
5. Eliminate the uncondensed gas with vacuum pump and open the service valve to put the refrigerant.
   - Make sure to perform leak test. (Refer to 'Performing leak test' on pagSe 21.)
6. Insulate the drain hose after connecting it.
   - Insulate it correctly to avoid dew formation.

▶ **Pipe insulation**

1) Insulate the refrigerant pipes heavily with the finishing tape. If the insulation is poor, dew may form and leak through the indoor.
2) Use finishing tape wind up the refrigerant pipe.
3) When you bend the pipe and secure a minimum bending radius of 100 mm to prevent any distortion of the pipe.



7. Wind a finish tape when connecting refrigerant pipe, and communication cable is completed.

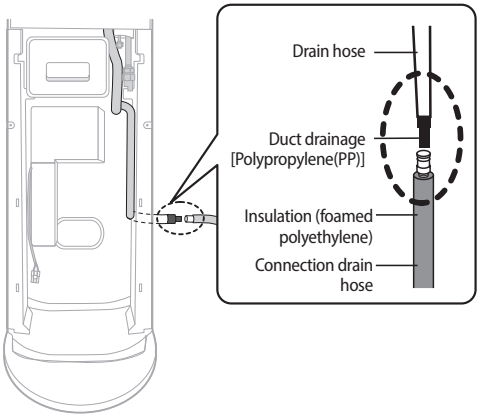
Indoor unit	Outdoor unit
	

Connecting drain hose

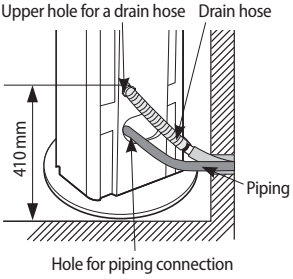
1. Slightly hit the hole, for drain hose, with your hands or hammer.
2. Insulate the drain hose with drain insulation tube and fix it with tape.
3. Direct the drain hose downward to establish natural draining.
   - Make sure to check for proper drainage after connection

CAUTION

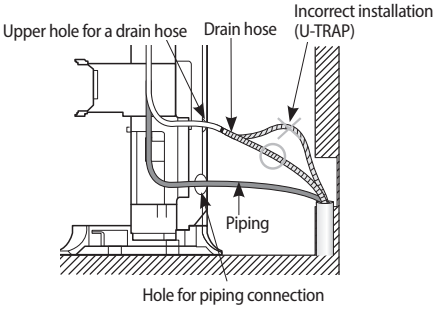
- Fix the drain hose tightly to prevent any water leakage.
- Do not use the extended drain hose.
  - Since water may leak from the connection part, make sure that you do not extend the drain hose. However, if extension is unavoidable due to its short length, use silicone sealant to securely seal the connection to prevent leakage. (Do not use the insulation tape.)



- Connect the drain hose through the upper hole for drain hose.



- Connection with wire-concealed piping



CAUTION

- Make sure the U-TRAP does not occur. Water may overflow and cause property damage.

Electrical work

CAUTION
- The electrical work should be performed by a specialist qualified for the work.
- Avoid using multi-concent but use rate power supply for air conditioner. (Use separate power cable for outdoor unit.)

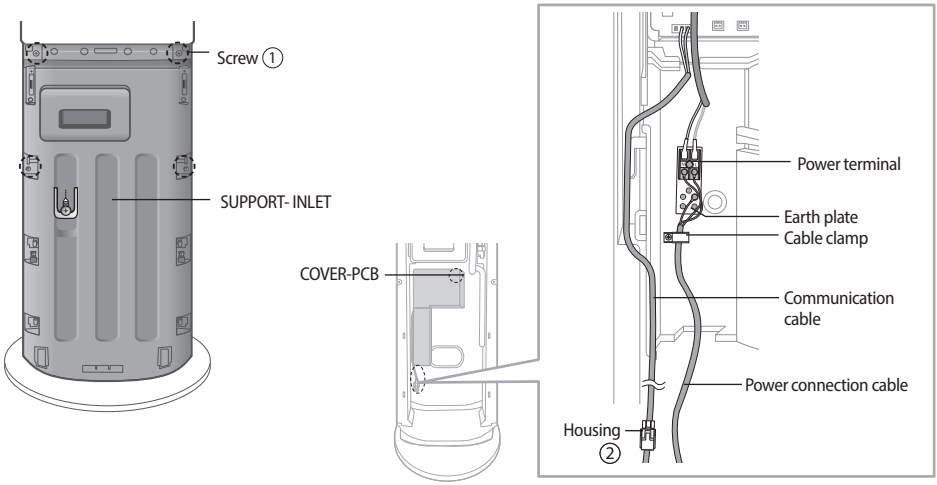
Wiring standard

- ▶ Always make sure that the power supply is compliant with current safety standards. Always install the air conditioner incompliance with current local safety standards.
- ▶ Make sure to install exclusive power supply(purchase separately).
  - If you use multiple connecting, there is a risk of electric shock or fire.
- ▶ If the outdoor power supply has been selected, install circuit breaker (ELCB). (Purchased separately)
- ▶ Make sure to connect earth wire.

Type		
	Indoor unit	Indoor power (Indoor/outdoor unit power cable)
	Outdoor unit	Outdoor power (Earth leakage circuit breaker)
Power		1Ph, 220~240 V, 50/60 Hz
Circuit breaker		20 A
Indoor/outdoor unit power cable		1.0 mm² or more
Outdoor unit power cable		2.5 mm² or more
Indoor/outdoor unit communication cable		0.75 mm² or more

Connecting procedure

1. After loosening the 4 screws(①) of support-inlet, disassemble the support-inlet.
2. Connect the housings of communication cable(②) for an indoor unit and outdoor unit.
3. Fix the power connection cable and communication cable with a cable clamp.
4. After assembling the SUPPORT-INRET and fix it with the screws(①).



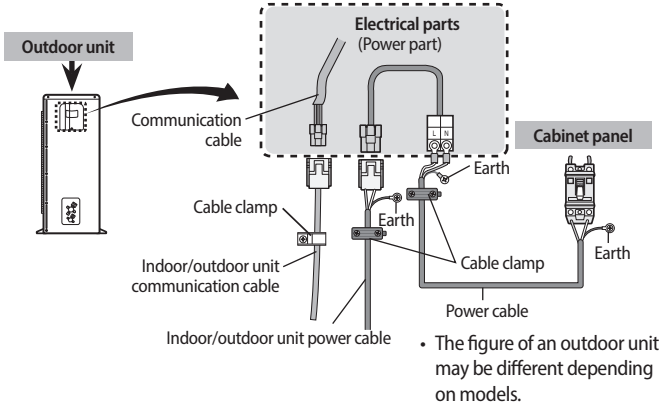
Safety information on outdoor unit power supply

▶ Power supply cords of parts of appliances for outdoor use shall not be lighter than polychloroprene sheathed flexible cord. (Code designation IEC:60245 IEC 66 / CENELEC: H07RN-F)
- Rated voltage: 450/750 V, H07RN-F (60245 IEC 66)
- Use cable over 2.5 mm² (Distance : 15 m or less)

Type of outdoor unit power supply

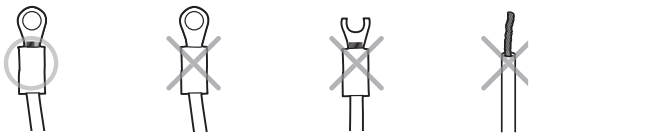
▶ Comply with tightening torque to make sure that the screws do not get loose.

Screw	Torque	
	kgf•cm	N•m
M4	12~18	1.2~1.8



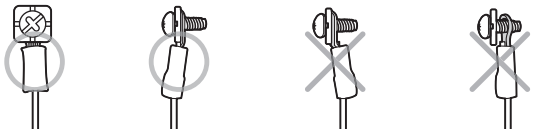
• The figure of an outdoor unit may be different depending on models.

▶ Before connecting, compressed part of the terminal should face upward.



Installed back to front. Compressed part is cut. Ring terminal is detached.

▶ After tightening, there should be no gap between a terminal and a screw.
- If there is a gap, fire may occur due to the heat of electronic connection part.



Terminal is tightened back to front.

A screw is not tightened firmly or there is a gap between a screw and ring terminal.

CAUTION

- When connecting the cables to the outdoor unit, reversing the connection of power and communication cable or connecting the earth wire incorrectly, electric leakage or product malfunction may occur.
- Do not cut or modify the supplied cable and install it.
- There is no front and back for the communication cable, so it can be switched.
- Use solderless ring terminal to connect the power cable to the power terminal block. If you connect stranded or solid wires without solderless ring terminal, heat may generate from the connected part and cause fire.

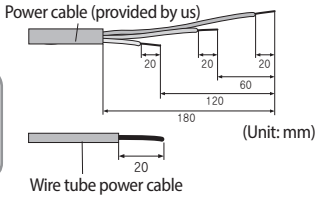
Electrical work

How to connect your extended power cables

1. Prepare a compressor and the following tools.

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

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

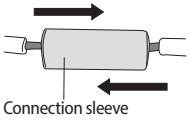


CAUTION
- After peeling off the tube wire, you must insert a contraction tube.
- For information about the power cable specifications for indoor and outdoor units, refer to the installation manual.

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

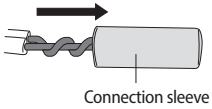
▶ **Method 1**

Push the core wire into the sleeve from both sides.

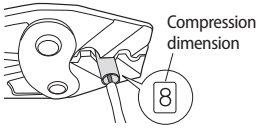


▶ **Method 2**

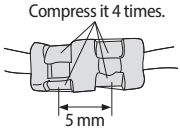
Twist the wire cores together and push it into the sleeve.



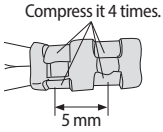
4. Using a compressor, compress the two points and flip it over and compress another two points in the same location.
   - The compression dimension should be 8.0.
   - After compressing it, pull both sides of the wire to make sure it is firmly pressed.



▶ Method 1

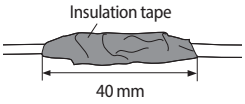


▶ Method 2

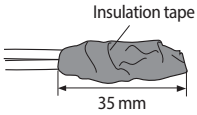


5. Wrap it with the insulation tape twice or more and position your contraction tube in the middle of the insulation tape. A total of three or more layers of insulation is required.

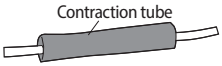
▶ Method 1



▶ Method 2



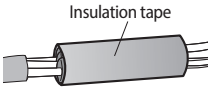
6. Apply heat to the contraction tube to contract it.



7. After tube contraction work is completed, wrap it with the insulation tape to finish.

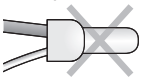
CAUTION

- 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

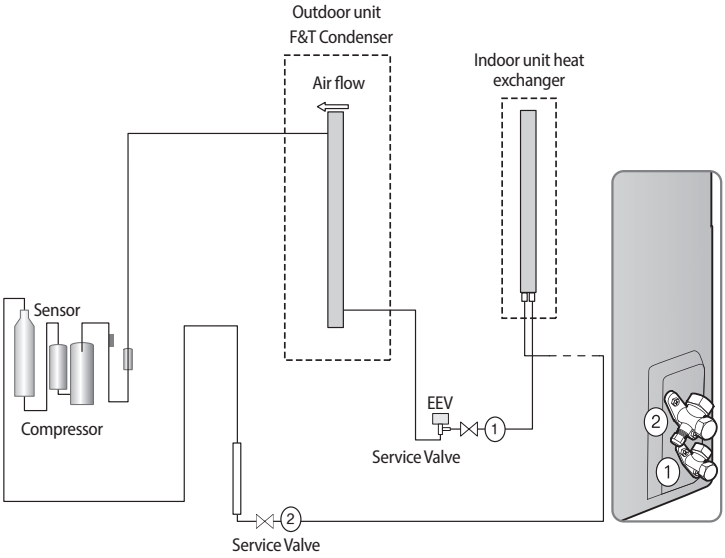
- In case of extending the electric wire, please DO NOT use a round-shaped Pressing socket.
  - Incomplete wire connections can cause electric shock or a fire.



Vacuum pump

Vacuuming pipe

1. Completely connect the indoor/outdoor unit pipes.
2. Connect the manifold gauge to the service valve port of the low pressure side on the outdoor unit.
3. Execute vacuum pump for over 30 minutes.
   - If the pipe extension is larger, time of the vacuum pump should also get longer.
4. After degree of vacuum has been established, open the service valve ① ~ ② as shown in the illustration.
   - Use soapsuds to check for refrigerant leakage on the connection part of the pipes

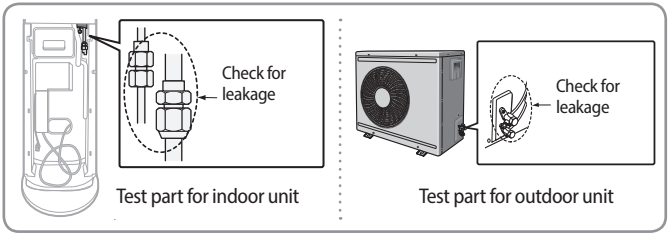


▶ Vacuuming air conditioner

- Execute vacuum pump on the manifold gauge connected to low pressure side ②, to purge the air from the pipes and indoor unit.

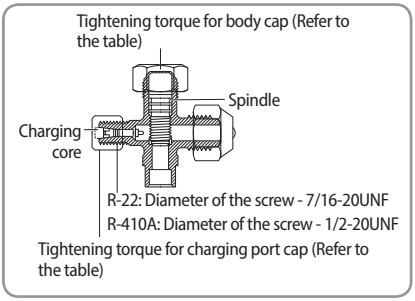
Performing leak test

▶ Use leak tester or soapsuds on the pipe connection part after performing vacuum pump.



▶ Before inspecting the leakage, use a torque wrench to close the cap for the service valve.(Comply with a tightening torque for each size of the diameter, and tighten the cap firmly to prevent any leakage.)

▶ To check for any possible leakage, insert inert gas into the pipes connected to indoor/outdoor units and check the connection part of the indoor/outdoor units with soap lather or liquid for leakage test.



Outer Diameter (mm)	Tightening torque	
	Body cap (N•m)	Charging port cap (N•m)
Ø6.35	20 ~ 25	10 ~ 12
Ø9.52	20 ~ 25	
Ø12.7	25 ~ 30	
Ø15.88	30 ~ 35	
Ø19.05	35 ~ 40	

✻ 1 N•m = 10 kgf•cm

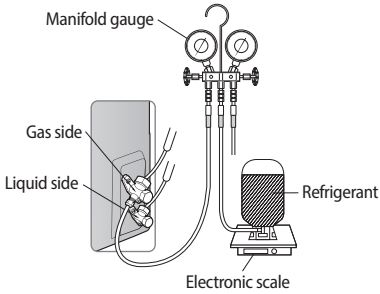
Installing the earth wire

Earthing must be done by the installation specialist for your safety.

▶ Connect grounding electrode and the air conditioner.

Charging refrigerant

1. Connect the manifold gauge in the low pressure side (gas) and press **Set/Cancel, Mode, Temp** + button simultaneously for 5 seconds to enter the refrigerant charging mode. When the outdoor unit operates, charge the refrigerant.
2. Charge the refrigerant depending on the pipe length.
   - If the installed pipe length exceeds standard length (5 m), you must add 30g of refrigerant (R-410A) for every 1 m.
   - You do not need to charge the additional refrigerant when pipe length is less than 5 m.



3. After charging the refrigerant, disconnect the manifold gauge from the service port and close the service cap.
4. Deactivate the refrigerant charging mode by pressing **Set/Cancel, Mode, Temp** + button simultaneously for 5 seconds.

CAUTION
- Make sure to charge refrigerant with accurate amount by using the electronic scale.

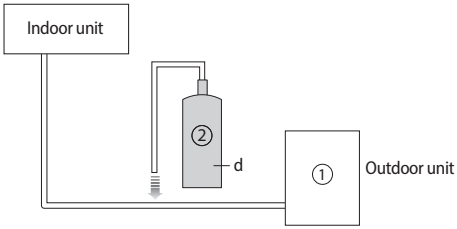
Important information regulation regarding the refrigerant used

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

CAUTION
- Inform users if system contains 5 tCO_2e or more of fluorinated greenhouse gases. In this case, it has to be checked for leakage at least once every 12 months, according to regulation n°517/2014. This activity has to be covered by qualified personnel only. In case situation above (5 tCO_2e or more of R-410A), installer (or recognized person which has responsibility for final check) has to provide a maintenance book, with all the information recorded according to REGULATION (EU) No 517/2014 OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL of 16 April 2014 on fluorinated greenhouse gases.

Please fill in the following with indelible ink on the refrigerant charge label supplied with this product and on this manual.

▶ ① the factory refrigerant charge of the product.
▶ ② the additional refrigerant amount charged in the field.
▶ ① + ② the total refrigerant charge.
✻ The refrigerant charge label supplied with the product.



Unit	kg	tCO_2e
①, a		
②, b		
①+②, C		

Refrigerant type	GWP value
R-410A	2088

- GWP=Global Warming Potential
- Calculating tCO_2e : kg x GWP / 1000

NOTE

a Factory refrigerant charge of the product: see unit name plate.
b Additional refrigerant amount charged in the field. (Refer to the above information for the quantity of refrigerant replenishment.)
c Total refrigerant charge.
d Refrigerant cylinder and manifold for charging.

CAUTION

- The filled-out label must be adhered in the proximity of the product charging port. (ex. onto the inside of the stop valve cover)

Check and test operation

1. Supply power to the air conditioner.
2. Turn on the air conditioner.
3. While pressing and holding the **Set/Cancel** button on the remote controller, press the **Power** ⏻ button for 3 seconds to display the temperature of indoor heat exchanger.
   - Write down the displayed temperature.
4. Press the **Turbo** button on the remote controller to operate in turbo mode for 10 minutes.
5. Check if the indoor unit is operating normally.
   - Standard condition to judge normal operation. (Indoor/outdoor unit over 21 °C, operate in Cool mode for over 10 minute)
6. While pressing and holding the **Set/Cancel** button on the remote controller, press the **Power** ⏻ button for 3 seconds to display the temperature of indoor heat exchanger.
   - If the displayed temperature differs over 10 °C from the temperature written down previously, it is operating normally.
7. When checking above step 1~6 is done, tell the user how to use the air conditioner.

Pump down procedure (When removing the product)

1. Press the **Power** ⏻ button on the indoor unit control panel for 5 seconds to enter the Pump down mode and operate the compressor for over 5 minutes. Or, Press the **Set/Cancel, Mode** and **Temp** - button on the remote controller simultaneously to enter the Pump down mode and operate the compressor for over 5 minutes.
2. Remove the **High/Low** pressure side valve cap.
3. Use the L wrench to completely close the valve on the high pressure side.
4. After 2 minutes, completely close the valve on the low pressure side.
5. Press the **Power** ⏻ button on the indoor unit control panel for 5 seconds to deactivate the Pump down mode. Or, Press the **Set/Cancel, Mode** and **Temp** - button on the remote controller simultaneously to deactivate the Pump down mode.
6. Disconnect the pipe.

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