

DAIKIN AIR CONDITIONER INSTALLATION MANUAL

MTKC25AVMW
MTKC35AVMW
MTKC25AVMK
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The two-dimensional bar code is a manufacturing code.

R32 Split Series **INVERTER**

SAFETY PRECAUTIONS (1)

Read the precautions in this manual carefully before operating the appliance. This appliance is filled with R32.

- The precautions described herein are classified as WARNING and CAUTION. They both contain important information regarding safety. Be sure to observe all precautions without fail.
- Meaning of WARNING and CAUTION notices.

WARNING	Failure to follow these instructions properly may result in personal injury or loss of life.
CAUTION	Failure to observe these instructions properly may result in property damage or personal injury, which may be serious depending on the circumstances.

The safety marks shown in this manual have the following meanings:

	Be sure to follow the instructions.		Be sure to establish an earth connection.		Never attempt.
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- After completing installation, conduct a trial operation to check for faults and explain to the customer how to operate the appliance and take care of it with the aid of operation manual.

WARNING

- Ask your dealer or technicians with installation training to carry out installation work. Do not attempt to install the appliance yourself. Improper installation may result in water leakage, electric shocks or fire.
- Install the air conditioner according to the instructions given in this manual. Incomplete installation may cause water leakage, electrical shock, or fire.
- Be sure to use only the specified accessories and parts for installation work. Failure to use the specified parts may result in the appliance falling, water leakage, electric shocks or fire.
- Install the appliance on a foundation strong enough to withstand the weight of the appliance. A foundation of insufficient strength may result in the appliance falling and causing injury.
- Electrical work must be performed in accordance with relevant local and national regulations and with instructions in this installation manual. Be sure to use a dedicated power supply circuit only. Insufficiency of power circuit capacity and improper workmanship may result in electric shocks or fire.
- Be sure to use a dedicated power circuit. Never use a power supply shared by another appliance.
- Use a cable of suitable length. Do not use tapped wires or an extension lead, as this may cause overheating, electric shocks or fire.
- Make sure that all wiring is secured, the specified wires are used, and that there is no strain on the terminal connections or wires. Improper connections or securing of wires may result in abnormal heat build-up or fire.
- When wiring the power supply and connecting the wiring between the indoor and outdoor units, position the wires so that the control box lid can be securely fastened. Improper positioning of the control box lid may result in electric shocks, fire or overheating terminals.
- After connecting interconnecting and supply wiring be sure to shape the cables so that they do not put undue force on the electrical covers or panels. Install covers over the wires. Incomplete cover installation may cause terminal overheating, electrical shock, or fire.
- When installation or relocating the air conditioner be sure to bleed the refrigerant circuit to ensure it is free of air, and use only the specified refrigerant (R32). The presence of air or other foreign matter in the refrigerant circuit cause abnormal pressure rise, which may result equipment damage and even injury.
- If refrigerant leaks during installation, ventilate the area immediately. Toxic gas may be produced if the refrigerant comes into contact with fire.
- After completing installation, check for refrigerant leakage. Toxic gas may be produced if the refrigerant gas leaks into the room and comes into contact with a source of fire, such as a fan heater, stove or cooker.
- Ensure that the area is in the open or that it is adequately ventilated before breaking into the system or conducting any hot work. A degree of ventilation should continue during the period that the work is carried out. The ventilation should safely disperse any released refrigerant and preferably expel it externally into the atmosphere.
- During pump-down, stop the compressor before removing the refrigerant piping. If the compressor is still running and the shut-off valve is open during pump-down, air will be sucked in when the refrigerant piping is removed, causing abnormal pressure in the refrigerant cycle, which may result equipment damage and even injury.
- During installation, attach the refrigerant piping securely before running the compressor. If the compressor is not attached and the shut-off valve is open when the compressor is run, air will be sucked in, causing abnormal pressure in the freezer cycle, which may result equipment damage and even injury.
- Be sure to earth the appliance. Do not earth the appliance to a utility pipe, lightning conductor or telephone earth lead. Imperfect earthing may result in electric shocks.
- Be sure to install an earth leakage breaker. Failure to install an earth leakage breaker may result in electrical shocks, or fire.
- Do not use means to accelerate the defrosting process or to clean, other than those recommended by the manufacturer.
- The appliance must be stored in a room without continuously operating ignition sources (for example: open flames, an operating gas appliance or an operating electric heater).
- Do not pierce or burn.
- Be aware that refrigerant gas may not contain an odour.
- The appliance must be installed, operated and stored in a room with a floor area larger than $-^* \text{m}^2$.
* Since the maximum refrigerant charge of the models is below 1.84 kg, it does not have any limitation for the minimum floor area. The appliance should be installed in a well-ventilated room.
- Maintain an installation height of 2.5 m or more from the floor surface to the bottom of the appliance.
- Comply with national gas regulations.
- When flared joints are reused indoors, the flare part shall be re-fabricated.

SAFETY PRECAUTIONS (2)

CAUTION

- Do not install the appliance at any place where there is danger of flammable gas leakage. In the event of a gas leakage, build-up of gas near the appliance may cause a fire to break out.
- While following the instructions in this installation manual, install drain piping to ensure proper drainage and insulate piping to prevent condensation. Improper drain piping may result in indoor water leakage and property damage.
- The temperature of refrigerant circuit will be high, please keep the inter-unit wiring away from copper pipes that are not thermally insulated.
- Make sure to provide for adequate measure in order to prevent that the outdoor unit be used as a shelter by small animals. Small animals making contact with electrical parts can cause malfunctions, smoke or fire. Please instruct the customer to keep the area around the unit clean.
- Tighten the flare nut according to the specified method such as with a torque wrench. If the flare nut is too tight, it may crack after prolonged use, causing refrigerant leakage.
- Only qualified personnel or technicians who have been trained can handle, fill, purge and dispose of the refrigerant.

ACCESSORIES

A Mounting plate	1	D Insulation tape	1	G Air quality filter (enzyme blue with PM2.5) - with frame	2	J Refrigerant charge label	1
B Mounting plate fixing screws M4 x 25L	7	E Operation manual	1	H SSID sticker with release paper (attached to the unit)	1	K Screw covers	2
C Indoor unit fixing screw M4 x 12L	2	F Installation manual	1	I Wireless LAN connection key (attached to the unit)	1	L Indoor power supply installation manual	1

CHOOSING A SITE

- Before choosing the installation site, obtain user approval.

Indoor unit

The indoor unit should be located where:

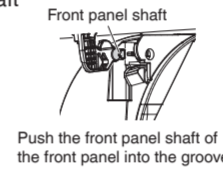
- The restrictions on installation specified in the **INDOOR/OUTDOOR UNIT INSTALLATION DRAWINGS** are met.
- Both air inlet and air outlet have clear paths met.
- The unit is not in the path of direct sunlight.
- The unit is away from sources of heat or steam.
- There is no source of machine oil vapour (this may shorten indoor unit life).
- Cool air is circulated throughout the room.
- The unit is at least 1 m away from any television or radio set (unit may cause interference with the picture or sound).
- Install at the recommended height.
- No laundry equipment is located.

INSTALLATION TIPS

1. Removing and installing front panel.

Removal method

- Place your fingers in the indentations on the main unit (one each on the left and right sides), and open the front panel until it stops.
- While pushing the left side front panel shaft outward, push up the front panel and remove it. (Remove the right side front panel shaft in the same manner.)
- After removing both front panel shafts, pull the front panel toward yourself and remove it.



Installation method

Align the tabs of the front panel with the grooves, and push all the way in, then close slowly. Push the centre of the lower panel surface firmly to engage the tabs.

2. Installing (K) screw covers.

Installation method

Insert the hook of the (K) screw cover (2 pcs.) into the groove on the front cover and twist/turn clockwise to lock and press the screw cover. Fig. 2.1

Note: This type of screw cover is a permanent lock type. Once installed, it is recommended not to remove the screw cover. If removed, it will damage the screw cover.

3. Removing and installing front grille.

Removal method

- Remove front panel and remove the air filter.
- Remove the service cover fixing screws (1 screw) and remove service cover. Fig. 3.1
- Remove the connectors terminal block of indoor unit. (2 positions) Fig. 3.2
- Remove the (K) screw covers. (2 pcs.) Use a long flat plate or a ruler and wrap it in a cloth to push open the screw cover and slide the cover backward. Fig. 3.3
- Remove the front grill fixing screws. (3 screws) Fig. 3.3
- In front of the (O) mark of the front grille, there are 3 upper hooks. Lightly pull the front grille toward you with one hand, and push down on the hooks with the fingers of your other hand. Fig. 3.4

<When there is no work space because the unit is close to ceiling>

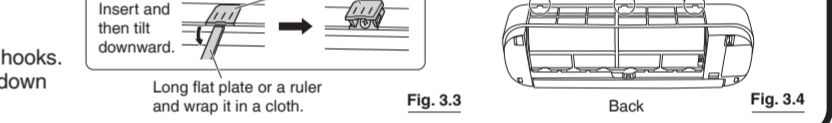
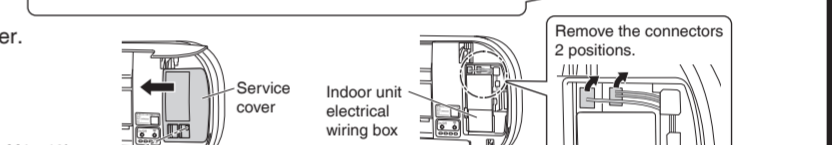
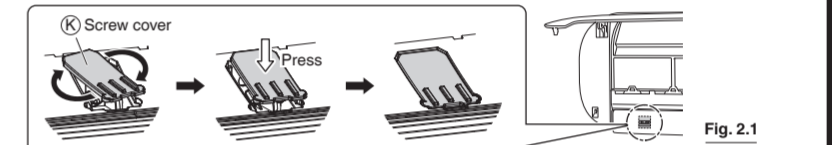
CAUTION

Be sure to wear protection gloves.

Insert a flathead screwdriver into the slot on the front grille and carefully pry upward on both the left and right sides. Then place both hands under the centre, and while pushing up, pull it toward you.

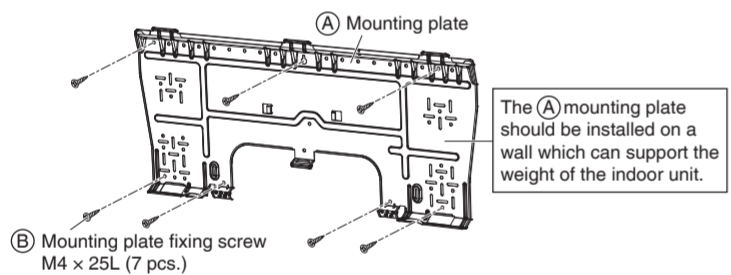
Installation method

- Install the front grille and firmly engage the upper hooks (3 locations).
- Install the 3 screws of the front grille and screw covers (2 pcs.).
- Install the connectors terminal block of indoor unit to the original positions. (2 positions)
- Install the service cover and screw for fixing the service cover (1 screw).
- Install the air filter and then mount the front panel.



INDOOR/OUTDOOR UNIT INSTALLATION DRAWINGS

NOTE
When flare pipe end and installing the indoor unit and the outdoor unit, refer to "2 FLARING THE PIPE END" and "3 REFRIGERANT PIPING" on OUTDOOR UNIT.



Model	25 class	35 class
Max. allowable piping length	15 m	
Max. allowable piping height	12 m	
Additional refrigerant required for refrigerant pipe exceeding 15 m in length.	20 g/m	The connected piping must not exceed 15 m in length for this model.
Min. allowable piping length	2.5 m	
Max. allowable refrigerant charge amount	0.43 kg	0.54 kg
Gas pipe	O.D. 9.5 mm (3/8 inch)	
Liquid pipe	O.D. 6.4 mm (1/4 inch)	

- Be sure to add the proper amount of additional refrigerant. Failure to do so may result in reduced performance.
- The suggested shortest pipe length is 2.5 m in order to avoid noise from the outdoor unit and vibration. (Mechanical noise and vibration may occur depending on how the unit is installed and the environment in which it is used.)
- Do not charge refrigerant beyond the specified limit.

[Note of the charging procedures]

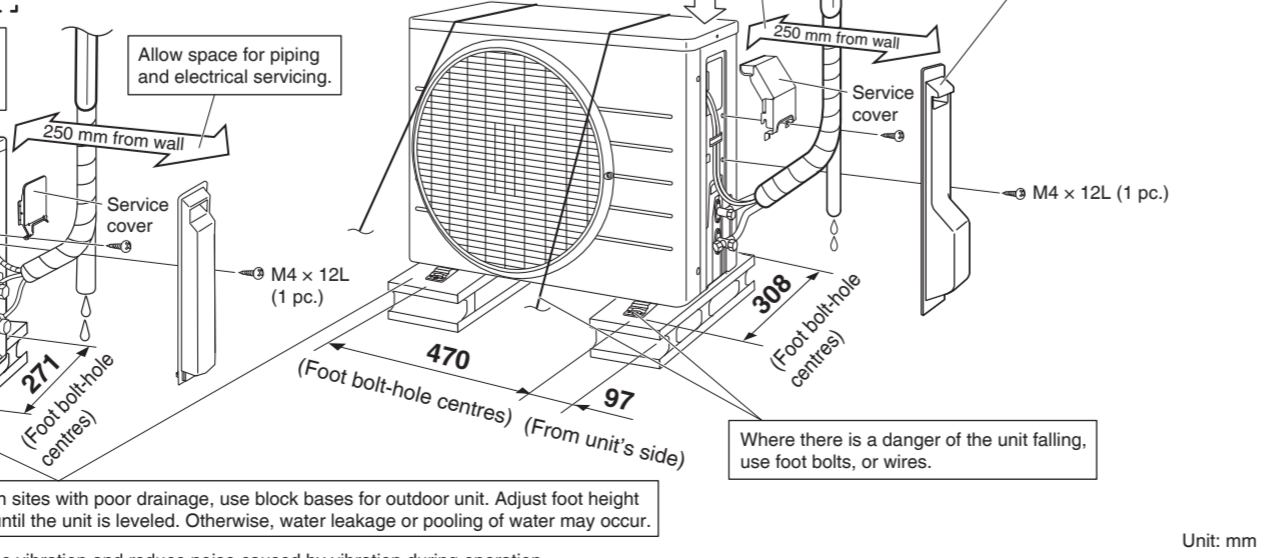
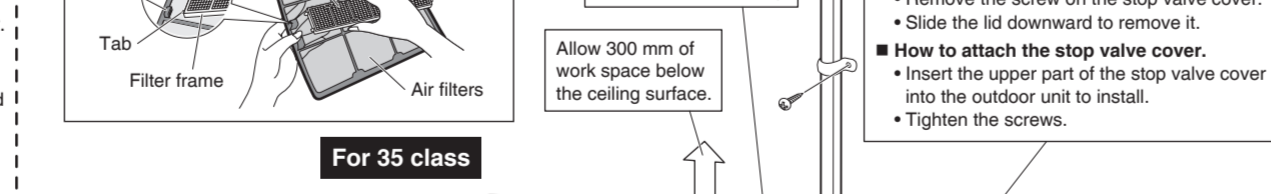
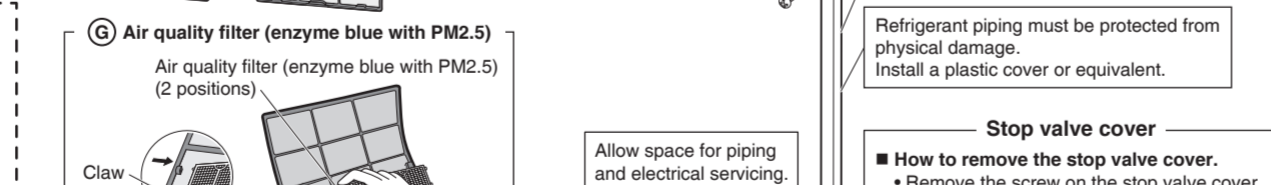
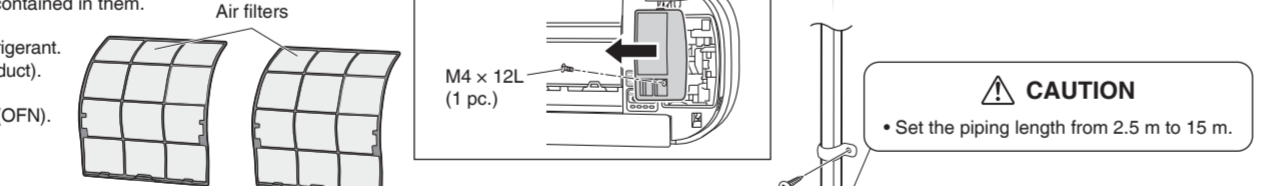
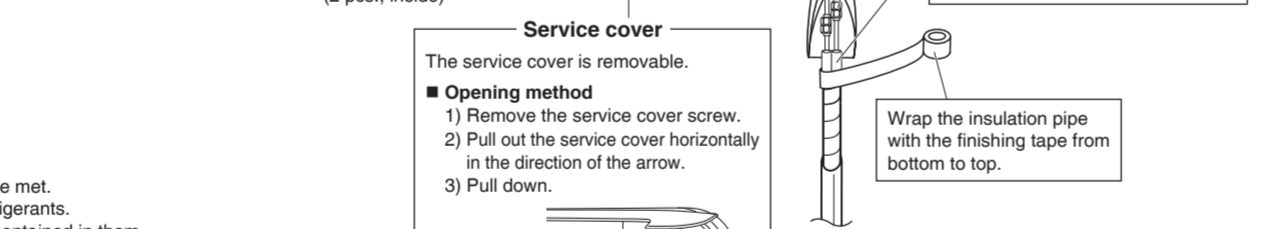
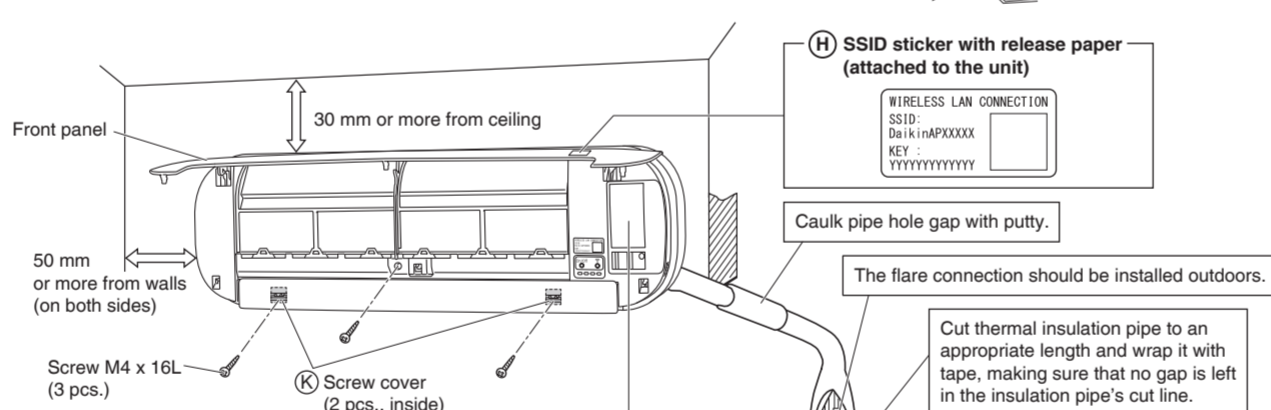
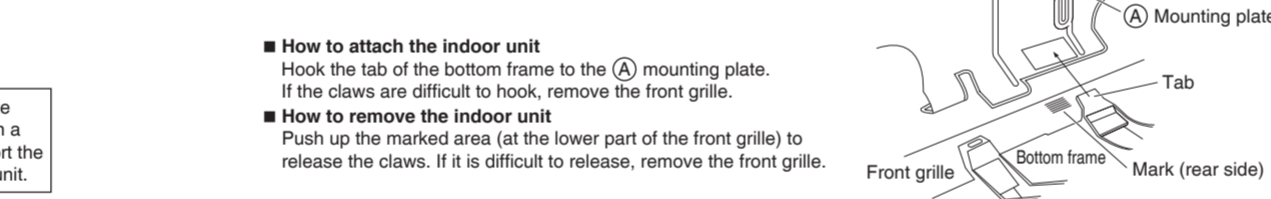
In addition to conventional charging procedures, the following requirements shall be met. Ensure that the charging appliance to be used is not contaminated by different refrigerants. Hoses or lines shall be as short as possible to minimise the amount of refrigerant contained in them.

- Cylinders shall be kept upright.
- Ensure that the refrigeration system is earthed before charging the system with refrigerant.
- Label the system when charging is complete (refer to the label provided on the product).
- Extreme care shall be taken not to overfill the refrigeration system.

Before recharging, the system shall be tested for leakage with oxygen free nitrogen (OFN). On completion of charging, the system shall be tested before commissioning. Follow up leakage test shall be carried out before leaving the site.

Refrigerant charge label

- Please fill in with indelible ink.
 - 1 the factory refrigerant charge of the product,
 - 2 the additional refrigerant amount charged in the field and
 - 1 + 2 the total refrigerant charge
- on the refrigerant charge label supplied with the product.
- Attach the refrigerant charge label near the manufacturer's label after filling it out.
- The filled out label must be adhered in the proximity of the product charging port.
-



Installation recommended Outdoor Unit
It is recommended that should attach a rubber liner to the installation leg to reduce vibration and reduce noise caused by vibration during operation.

PRECAUTIONS FOR SELECTING THE LOCATION

Outdoor unit

NOTE
Cannot be installed hanging from ceiling or stacked.

- Choose a place solid enough to bear the weight and vibration of the unit, where the operation noise will not be amplified.
- Choose a location where the air discharged from the unit or the operation noise will not cause a nuisance to the neighbors of the user.
- Avoid places near a bedroom and the like, so that the operation noise will cause no trouble.
- There must be sufficient spaces for carrying the unit into and out of the site.
- There must be sufficient space for air passage and no obstructions around the air inlet and the air outlet.
- The site must be free from the possibility of flammable gas leakage in a nearby place.
- Install units, power cords and inter-unit cables at least 3 m away from television and radio sets. This is to prevent interference to images and sounds. (Noises may be heard even if they are more than 3 m away depending on radio wave conditions.)
- The unit is not directly exposed to salty air, scattered iron powder or copper powder, sulfur-containing gases, vapour or machine oil vapour (they may shorten the service life of the outdoor unit).
- Since drain flows out of the outdoor unit, do not place under the unit anything which must be kept away from moisture.

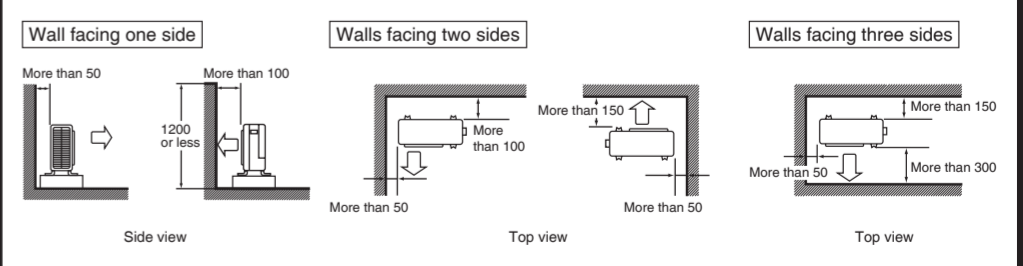
PRECAUTIONS ON INSTALLATION

- Check the strength and level of the installation ground so that the unit will not cause any operating vibration or noise after installed.
- In accordance with the foundation drawing, fix the unit securely by means of the foundation bolts. (Prepare 4 sets of M8 or M10 foundation bolts nuts and washers each which are available on the market.)
- It is best to screw in the foundation bolts, until their length are 20 mm from the foundation surface.



INSTALLATION GUIDELINES

- Where a wall or other obstacle is in the path of outdoor unit's inlet or outlet airflow, follow the installation guidelines below.
- For any of the below installation patterns, the wall height on the exhaust side should be 1200 mm or less.



For wall-mounted outdoor unit installation on hanger, to avoid vibration and operating noise, it is recommended to install an additional accessory on the mounting bracket (sold separately: recommended model KKS921A4).

Important information regarding the refrigerant used

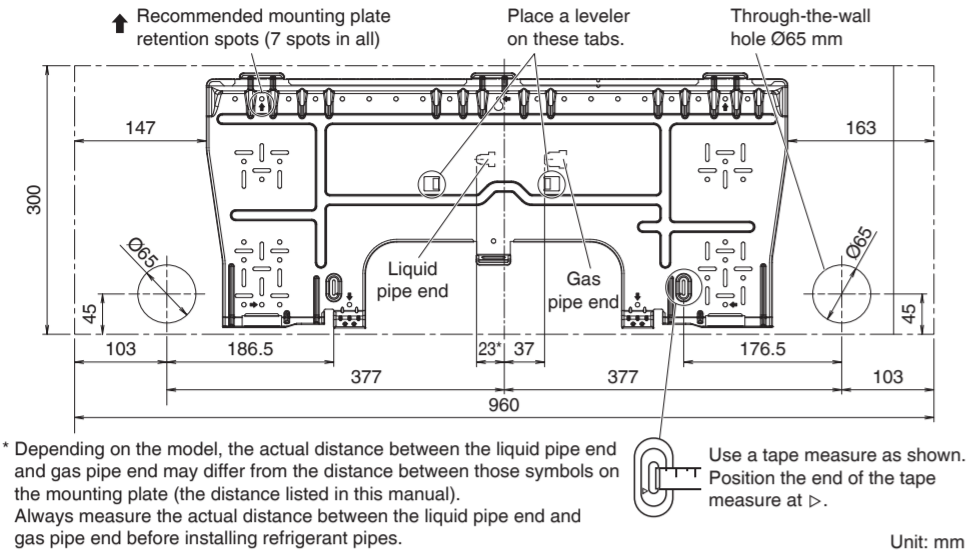
This product contains fluorinated greenhouse gases.
Refrigerant type: **R32**
GWP⁽¹⁾ value: **675**
⁽¹⁾GWP = global warming potential
The refrigerant quantity is indicated on the unit name plate.

INDOOR UNIT

1 INSTALLING THE MOUNTING PLATE

- The mounting plate should be installed on a wall which can support the weight of the indoor unit.
- Temporarily secure the mounting plate to the wall, make sure that the panel is completely level, and mark the boring points on the wall.
- Secure the mounting plate to the wall with screws.

Recommended mounting plate retention spots and dimensions



* Depending on the model, the actual distance between the liquid pipe end and gas pipe end may differ from the distance between those symbols on the mounting plate (the distance listed in this manual). Always measure the actual distance between the liquid pipe end and gas pipe end before installing refrigerant pipes.

2 BORING A WALL HOLE AND INSTALLING WALL EMBEDDED PIPE

CAUTION
For walls containing metal frame or metal board, be sure to use a wall embedded pipe and wall cover in the feed-through hole to prevent possible heat, electrical shock, or fire.

- Be sure to caulk the gaps around the pipes with caulking material to prevent water leakage.
- Bore a feed-through hole of 65 mm in the wall so it has a down slope toward the outside.
- Insert a wall pipe into the hole.
- Insert a wall cover into wall pipe.
- After completing refrigerant piping, wiring, and drain piping, caulk pipe hole gap with putty.

3 INSTALLING INDOOR UNIT

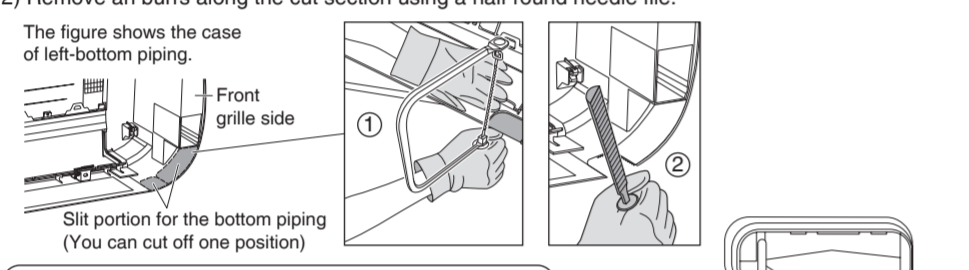
In the case of bending of curing refrigerant pipes, keep the following precautions in mind. Abnormal sound may be generated if improper work is conducted.

- Do not strongly press the refrigerant pipes onto the bottom frame.
- Do not strongly press the refrigerant pipes on the front grille, either.

Removing the slit portions.

To connect the piping on the right-side, right-bottom, left-side or left-bottom, the pipe port cover must be removed.

- Cut off the pipe port cover from inside the front grille using a coping saw.
- Remove an burrs along the cut section using a half round needle file.



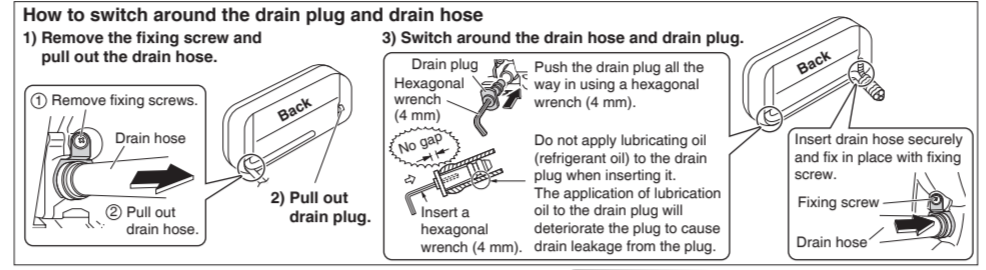
Right-side, right-back, or right-bottom piping.

- Attach the drain hose to the underside of the refrigerant pipes with an adhesive vinyl tape.
- Wrap the refrigerant pipes and drain hose together with an insulation tape.
- Pass the drain hose and refrigerant pipes through the wall hole, then set the indoor unit on the mounting plate hooks by using the Δ markings at the top of the indoor unit as a guide.

Use a tape measure as shown. Position the end of the tape measure at Δ.

- Open the front panel, then open the service cover. (Refer to **INSTALLATION TIPS**.)
- Pass the interconnecting wires from the outdoor unit through the feed-through wall hole and then through the back of the indoor unit. Pull them through the front side. Bend the ends of the wires upward for easier work in advance. (If the interconnecting wire ends are to be stripped first, bundle wire ends with adhesive tape.)
- Press the bottom frame of the indoor unit with both hands to set it on the mounting plate hooks. Make sure that the wires do not catch on the edge of the indoor unit.

Left-side, left-back, or left-bottom piping.



- Attach the drain hose to the underside of the refrigerant pipes with adhesive vinyl tape.
- Be sure to connect the drain hose to the drain port in place of a drain plug.
- Shape the refrigerant pipe along the pipe path marking on the mounting plate.
- Pass drain hose and refrigerant pipes through the wall hole, then set the indoor unit on mounting plate hooks, using the Δ markings at the top of indoor unit as a guide.
- Pull in the inter-unit wiring.
- Connect the inter-unit piping.
- Wrap the refrigerant pipes and drain hose together with insulation tape as right figure.
- While exercising care so that the interconnecting wires do not catch indoor unit, press the bottom edge of indoor unit with both hands until it is firmly caught by the mounting plate hooks. Secure indoor unit to the mounting plate with the indoor unit fixing screws (M4 × 12L).

Wall embedded piping.

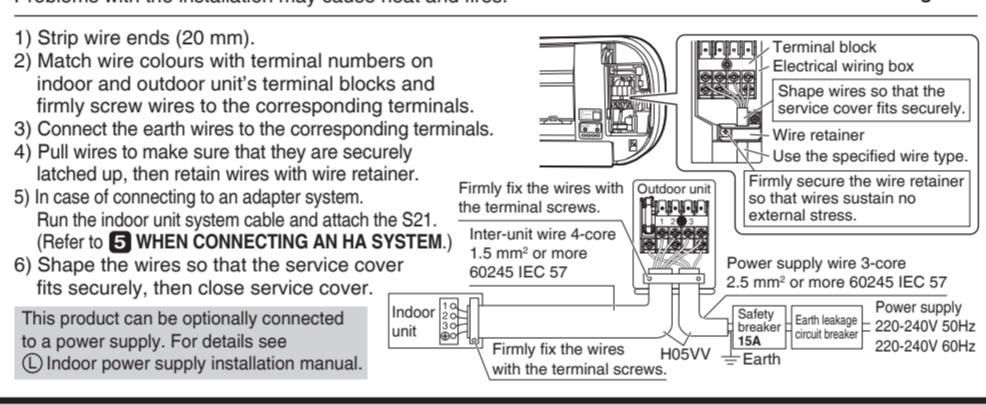
Follow the instructions given below. Insert the drain hose to this depth so it won't be pulled out of the drain pipe.

4 WIRING (1)

WARNING
Do not use taped wires, stranded wires, extension cords, or starburst connections, as they may cause overheating, electrical shock, or fire.

- Do not use locally purchased electrical parts inside the product. (Do not branch the power for the drain pump, etc., from the terminal block.) Doing so may cause electric shock or fire.
- Do not install the power supply wire to the indoor unit and the outdoor unit simultaneously. Please only install the power supply wire to either the indoor unit or the outdoor unit. Doing so may cause electric shock or fire.
- Be sure to install an earth leak detector. (One that can handle higher harmonics.) (This unit uses an inverter, which means that it must be used an earth leak detector capable of handling harmonics in order to prevent malfunction of the earth leak detector itself.)
- Use an all-pole disconnection type breaker with at least 3 mm between the contact point gaps.

CAUTION
When connecting the connection wires to the terminal block using a single core wire, be sure to perform curling. Problems with the installation may cause heat and fires.

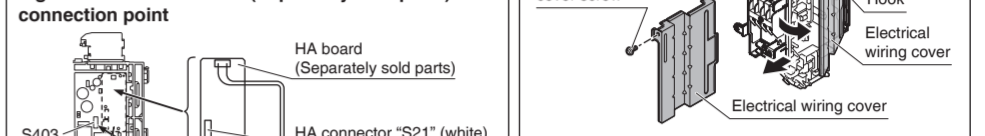


This product can be optionally connected to a power supply. For details see Indoor power supply installation manual.

5 WHEN CONNECTING AN HA SYSTEM

For this procedure, separately sold parts are needed.

- In case there is a work space in the right side of indoor unit, the procedure can be done while fixing electrical wiring box. Skip to remove electrical wiring box if it is possible, in order to make effective work. (For details, refer fixing manual which attached in HA board)
- Remove front grille. (screw 3 pcs.) See more "2. Removing and installing front grille" of **INSTALLATION TIPS** section.
- Remove electrical wiring cover. (screw 1 pc.)
- For connect the wires from electrical wiring block, cut the thin area (indicated by the dashed line) of the part as shown by using pliers or other cutting tools.
- Fixing HA board (Separately sold parts). Fixing HA board at electrical wiring box. Insert HA board connector to electrical wiring box connector (S403).
- Fixing HA connection code. Insert HA connection code to HA connector S21 (white) of HA board (Separately sold parts). (HA connector S16 that corresponded to JEM-A standard is blue color.)
- Wiring HA connection code as shown.
- Install each component to the original position.
- Fixing front grille.

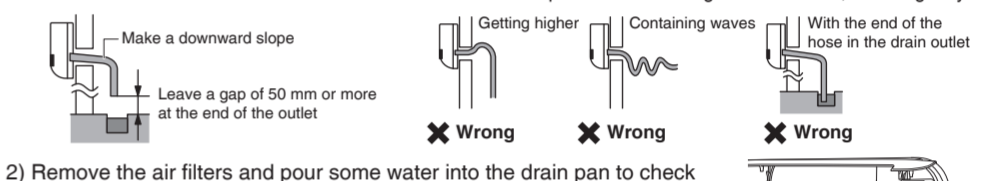
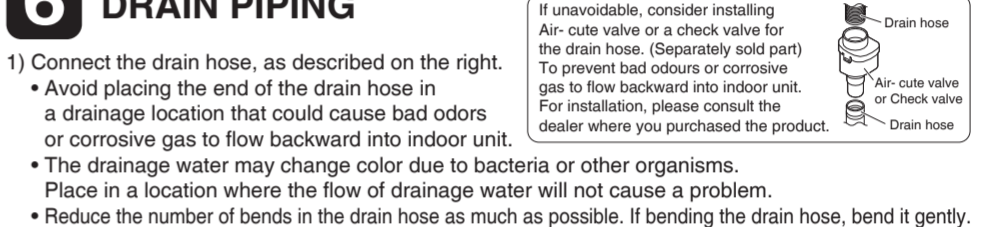


The picture may differ from some models. * HA system stands for "Home Automation system"

6 DRAIN PIPING

If unavoidable, consider installing Air-cute valve or a check valve for the drain hose. (Separately sold part) To prevent bad odors or corrosive gas to flow backward into indoor unit. For installation, please consult the dealer where you purchased the product.

- Connect the drain hose, as described on the right.
- Remove the air filters and pour some water into the drain pan to check the water flows smoothly.
- When drain hose requires extension, obtain an extension hose commercially available. Be sure to thermally insulate the indoor section of the extension hose.
- When connecting a rigid polyvinyl chloride pipe (diameter 16 mm) directly to the drain hose attached to the indoor unit as with embedded piping work, use any commercially available drain socket (inside diameter 16 mm) as a joint.
- Be sure to insulate the indoor section of the extension drain hose to prevent condensate water drip. Also, be careful not to pull the extended part too much, as it may detach, and apply tape to the connection to prevent corrosive gas from entering the indoor unit.



Make a downward slope. Leave a gap of 50 mm or more at the end of the outlet. Getting higher. Containing waves. With the end of the hose in the drain outlet.

Remove the air filters and pour some water into the drain pan to check the water flows smoothly.

When drain hose requires extension, obtain an extension hose commercially available. Be sure to thermally insulate the indoor section of the extension hose.

When connecting a rigid polyvinyl chloride pipe (diameter 16 mm) directly to the drain hose attached to the indoor unit as with embedded piping work, use any commercially available drain socket (inside diameter 16 mm) as a joint.

Be sure to insulate the indoor section of the extension drain hose to prevent condensate water drip. Also, be careful not to pull the extended part too much, as it may detach, and apply tape to the connection to prevent corrosive gas from entering the indoor unit.

OUTDOOR UNIT

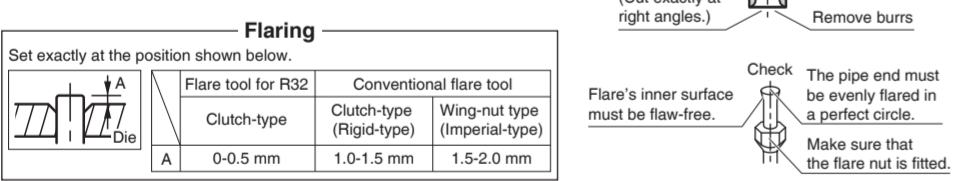
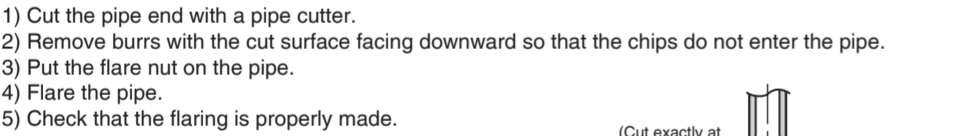
1 INSTALLING OUTDOOR UNIT

When installing the outdoor unit, refer to "PRECAUTIONS FOR SELECTING THE LOCATION" and the "INDOOR/OUTDOOR UNIT INSTALLATION DRAWINGS".

2 FLARING THE PIPE END

WARNING
Do not use mineral oil on flared part. Prevent mineral oil from getting into the system as this would reduce the lifetime of the units. Never use piping which has been used for previous installations. Only use parts which are delivered with the unit. Do never install a drier to this R32 unit in order to guarantee its lifetime. The drying material may dissolve and damage the system. Incomplete flaring may cause refrigerant gas leakage. When flared joints are reused indoors, the flare part shall be re-fabricated.

- Cut the pipe end with a pipe cutter.
- Remove burrs with the cut surface facing downward so that the chips do not enter the pipe.
- Put the flare nut on the pipe.
- Flare the pipe.
- Check that the flaring is properly made.

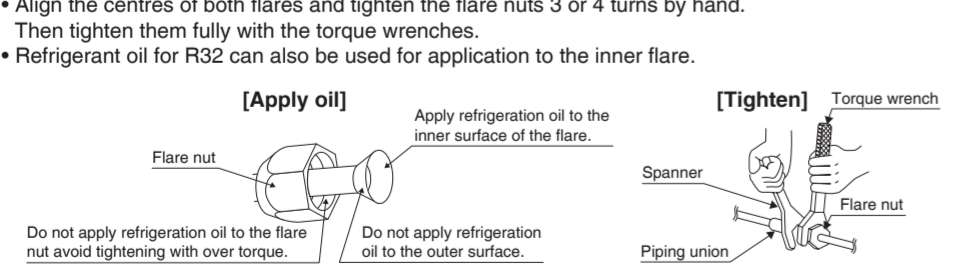


Set exactly at the position shown below. Flare the inner surface must be flaw-free. The pipe end must be evenly flared in a perfect circle. Make sure that the flare nut is fitted.

3 REFRIGERANT PIPING

CAUTION
Use the flare nut fixed to the main unit. (To prevent cracking of the flare nut by aged deterioration.) To prevent gas leakage, apply refrigeration oil only to the inner surface of the flare. (Use refrigeration oil for R32.) Use torque wrenches when tightening the flare nuts to prevent damage to the flare nuts and gas leakage.

- Align the centres of both flares and tighten the flare nuts 3 or 4 turns by hand. Then tighten them fully with the torque wrenches.
- Refrigerant oil for R32 can also be used for application to the inner flare.



Piping size	Flare nut tightening torque	Valve cap size dimension AA (Refer to Fig.1)			Valve cap tightening torque
		Clutch-type	Clutch-type (Rigid-type)	Wing-nut type (Imperial-type)	
Gas side					
O.D. 9.5 mm (3/8 inch)	32.7-39.9N • m (333-407kgf • cm)				15.7 ± 1.6N • m (160 ± 16kgf • cm)
O.D. 12.7 mm (1/2 inch)	49.5-60.3N • m (505-615kgf • cm)				19.0 ± 1.9N • m (193 ± 20kgf • cm)
O.D. 15.9 mm (5/8 inch)	61.8-75.4N • m (630-770kgf • cm)				24.5 ± 3.9N • m (250 ± 40kgf • cm)
Liquid side					
O.D. 6.4 mm (1/4 inch)	14.2-17.2N • m (144-175kgf • cm)				53.9 ± 5.9N • m (550 ± 60kgf • cm)
Service port cap tightening torque	10.7-14.7N • m (110-150kgf • cm)				68.6 ± 6.9N • m (700 ± 70kgf • cm)

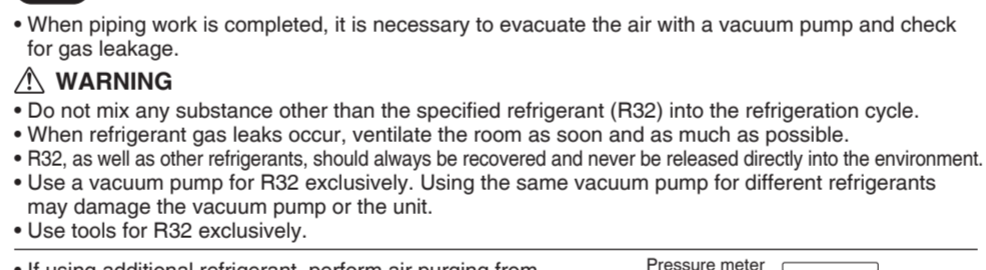
- Cautions on pipe handling.**
 - Protect the open end of the pipe against dust and moisture.
 - All pipe bends should be as gentle as possible. Use a pipe bender for bending.
- Selection of copper and heat insulation materials.** When using commercial copper pipes and fittings, observe the following:
 - Insulation material: Polyethylene foam
Heat transfer rate: 0.041 to 0.052W/mK (0.035 to 0.045kcal/(mh • °C))
Refrigerant gas pipe's surface temperature reaches 110°C max.
Choose heat insulation materials that will withstand this temperature.

4 EVACUATING THE AIR WITH A VACUUM PUMP AND CHECKING FOR GAS LEAKAGE

When piping work is completed, it is necessary to evacuate the air with a vacuum pump and check for gas leakage.

WARNING
Do not mix any substance other than the specified refrigerant (R32) into the refrigeration cycle. When refrigerant gas leaks occur, ventilate the room as soon and as much as possible. R32, as well as other refrigerants, should always be recovered and never be released directly into the environment. Use a vacuum pump for R32 exclusively. Using the same vacuum pump for different refrigerants may damage the vacuum pump or the unit. Use tools for R32 exclusively.

- If using additional refrigerant, perform air purging from the refrigerant pipes and indoor unit using a vacuum pump, then charge additional refrigerant.
- Use a hexagonal wrench (4 mm) to operate the stop valve rod.
- All refrigerant pipe joints should be tightened with a torque wrench at the specified tightening torque.



- Connect projection side of charging hose (which comes from manifold gauge) to gas stop valve's service port.
- Fully open manifold gauge's low-pressure valve (Lo) and completely close its high-pressure valve (Hi). (High-pressure valve subsequently requires no operation.)
- Do vacuum pumping and make sure that the compound pressure gauge reads -0.1MPa (-760 mmHg). *1 (Close manifold gauge's low-pressure valve (Lo) and stop vacuum pump. (Keep this state for a few minutes to make sure that the compound pressure gauge pointer does not swing back). *2
- Remove covers from liquid stop valve and gas stop valve.
- Turn the liquid stop valve's rod 90 degrees counterclockwise with a hexagonal wrench to open valve. Close it after 5 seconds, and check for gas leakage. Using soapy water, check for gas leakage from indoor unit's flare and outdoor unit's flare and valve rods. After the check is complete, wipe all soapy water off.
- Disconnect charging hose from gas stop valve's service port, then fully open liquid and gas stop valves. (Do not attempt to turn valve rod beyond its stop.)
- Tighten valve caps and service port caps for the liquid and gas stop valves with a torque wrench at the specified torques.

*1 Pipe length vs. vacuum pump running time.

Pipe length	Up to 15 m	More than 15 m
Running time	Not less than 10 min.	Not less than 15 min.

*2 If the compound pressure gauge pointer swings back, refrigerant may have water content or a loose pipe joint may exist. Check all pipe joints and retighten nuts as needed, then repeat steps 2) through 4).

5 PUMP DOWN OPERATION

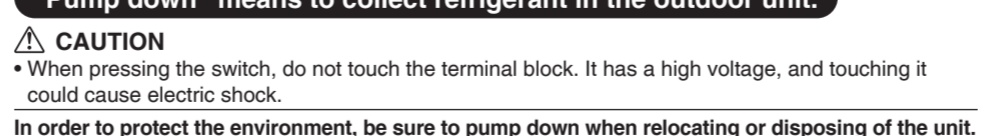
"Pump down" means to collect refrigerant in the outdoor unit.

CAUTION
When pressing the switch, do not touch the terminal block. It has a high voltage, and touching it could cause electric shock.

In order to protect the environment, be sure to pump down when relocating or disposing of the unit.

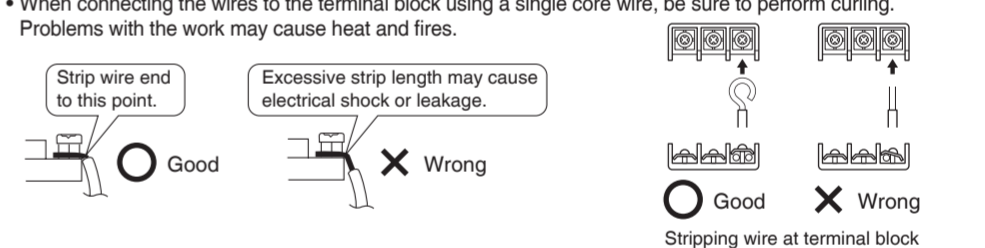
- Remove the valve cap from liquid stop valve and gas stop valve.
- Carry out forced cooling operation following the method below.
 - Using the indoor unit ON/OFF switch Press the indoor unit ON/OFF switch for at least 5 seconds. (The operation will start.)
- After 5 to 10 minutes, close the liquid stop valve with a hexagonal wrench.
- After 2 to 3 minutes, close the gas stop valve and stop forced cooling operation.

Note: [1] Forced cooling operation will stop automatically after around 15 minutes. To stop the operation before 15 minutes have elapsed, press the indoor unit ON/OFF switch.



6 WIRING (2)

CAUTION
When connecting the wires to the terminal block using a single core wire, be sure to perform curling. Problems with the work may cause heat and fires.



If the stranded wires must be used, make sure to use the round crimp-style terminal for connection to the power supply terminal block. Place the round crimp-style terminals on the wires up to the covered part and secure in place.



OUTDOOR UNIT POWER SUPPLY

For interconnecting wire connections see INDOOR UNIT 4 WIRING (1).

Observe the notes mentioned below when wiring to the power supply terminal block. Precautions to be taken for power supply wiring.

- Strip the insulation from the wire (20 mm).
- Connect the inter-unit wire between the indoor and outdoor units so that the terminal numbers match. Tighten the terminal screws securely. We recommend a flathead screwdriver be used to tighten the screws.
- Pull the wire and make sure that it does not disconnect. Then fix the wire in place with a wire retainer.

Firmly secure wire retainers so wire terminations will not receive external stress.

TRIAL OPERATION AND TESTING

- 1-1 Measure the supply voltage and make sure that it is within the specified range.
- 1-2 Trial operation should be carried out in COOL operation. Select the lowest programmable temperature.
- 1-3 Carry out the trial operation in accordance with the operation manual to ensure that all functions and parts, such as flaps movement, are working properly. For protection, the system disables restart operation for 3 minutes after it is turned off.
- 1-4 After trial operation is complete, set the temperature to a normal level (26°C to 28°C in COOL operation).

When operating the air conditioner in COOL operation in winter, set it to the trial operation mode using the following method.

1. Enter to (Settings) menu and enter to (About).
2. Tap on the button "App version" 10 times continuously.
3. Enter password by input password: daikin
4. Tap on the button (Enable) test run mode.
5. Trial operation will stop automatically after about 30 minutes. To stop the operation, Tap on the button (Disable).
- Some of the functions cannot be used in the trial operation mode.

The air conditioner draws a small amount of power in its standby mode. If the system is not to be used for some time after installation, shut off the circuit breaker to eliminate unnecessary power consumption. If the circuit breaker trips to shut off the power to the air conditioner, the system will restore the original operation mode when the circuit breaker is opened again.

Test items	Symptom	Check
Indoor and outdoor units are installed properly on solid bases.	Fall, vibration, noise	
No refrigerant gas leaks.	Incomplete cooling	
Refrigerant gas and liquid pipes and indoor drain hose extension are thermally insulated.	Water leakage	
Draining line is properly installed.	Water leakage	
System is properly earthed.	Electrical leakage	
The specified wires are used for interconnecting wire connections.	Inoperative or burn damage	
Indoor or outdoor unit's air inlet or air outlet are unobstructed.	Incomplete cooling	
Stop valves are opened.	Inoperative or burn damage	
Indoor unit properly receives application commands.	Inoperative	
The included SSID/KEY sticker (1 pc.) is attached to the operation manual, or presented to the user.	Unable to connect to wireless LAN	