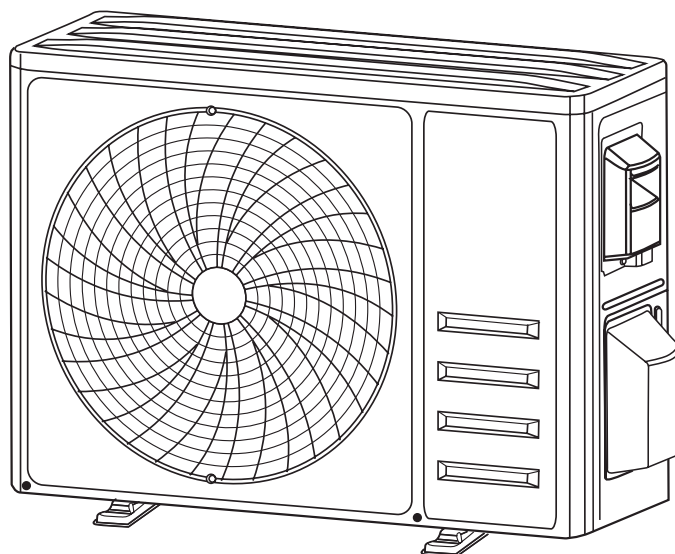
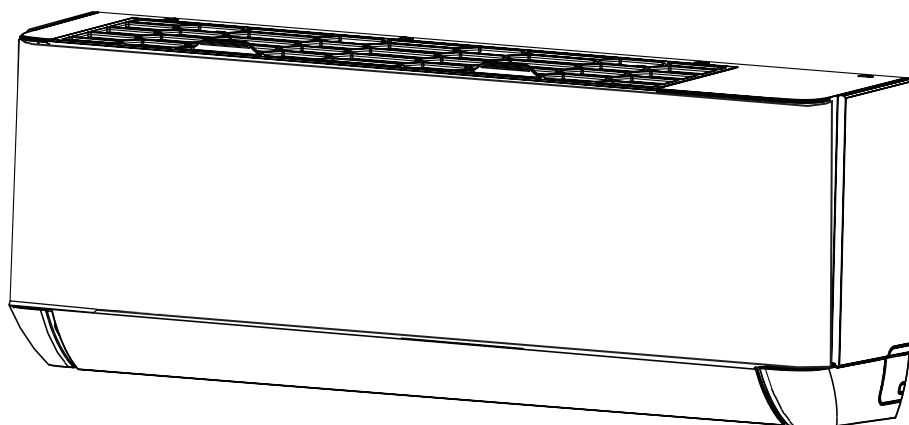


Service Manual for **TRUIINVERTER** **MINI SPLIT HEAT PUMP**



Read this manual carefully before operating
or installing. Make sure to save this
manual for future use.

Version Date: May 8th, 2026

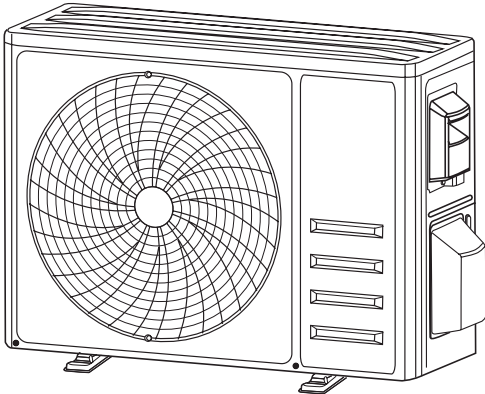
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- * The design and specifications are subject to change without prior notice for product improvement. Consult with the sales agency or manufacturer for details.
- * The shape and position of buttons and indicators may vary according to the model, but their function are the same.

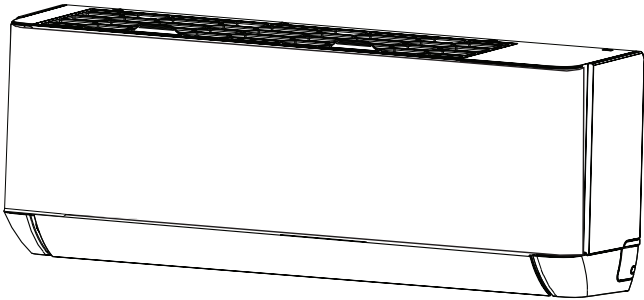
NOMENCLATURE Condenser

AEPL** M H V 22 S 06 3 1 B 1 A											
Brand											
AEPL** = Any Brand											
Product Category											
S = Split System Condenser P = Package Unit M = Mini Split Condenser T = Package Terminal W = Window Unit R = Through the Wall											
Product Type											
A = AC H = Heat Pump											
Compressor Type											
S = Single Stage T = Two Stage V = Inverter											
Efficiency (SEER2)											
22 = 22 SEER2 23 = 23 SEER2											
Air Flow											
T = Top Discharge (Condenser) S = Side Discharge (Condenser) M = Multi-Position (Pkg Unit) H = Horizontal (Pkg Unit) D = Down Flow (Pkg Unit)											
Revision											
A											
Zones											
1 = 1 Zone 2 = 2 Zone 3 = 3 Zone 4 = 4 Zone 5 = 5 Zone											
Series											
B											
Electrical											
1 = 208/230 V, 1 Phase, 60 Hz 2 = 120 V, 1 Phase, 60 Hz											
Refrigerant											
1 = R410a 2 = R454b 3 = R32											
Nominal Capacity											
06 = 0.5 Tons 30 = 2.5 Tons 09 = 0.75 Tons 36 = 3 Ton 12 = 1 Ton 42 = 3.5 Tons 18 = 1.5 Tons 48 = 4 Tons 24 = 2 Tons 60 = 5 Tons											



NOMENCLATURE *Air Handler*

AEPL** A W M 22 E 12 3 2 B 1 A											
Brand											
AEPL** = Any Brand											
Product Category											
A = Air Handler											
Application											
A = Upflow/Downflow											
U = Upflow											
D = Downflow											
M = Multi-Position											
C = Ceiling Mounted											
W = Wall Mounted											
Cabinet Finish											
M = Mini Split											
Efficiency (SEER2)											
22 = 22 SEER2											
23 = 23 SEER2											
Expansion Device											
F = Flowrater											
T = TXV											
E = Electronic Expansion Valve											
Revision											
A											
Zones											
1 = 1 Zone											
2 = Multi Zone											
Series											
B											
Electrical											
1 = 208/230 V, 1 Phase, 60 Hz											
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36 = 3 Ton											
42 = 3.5 Tons											
48 = 4 Tons											
60 = 5 Tons											



Important Safety and Use Notice

This manual contains critical safety, installation, operation, and servicing information for this appliance.

This appliance uses R32 refrigerant, classified as A2L (mildly flammable). Improper installation, servicing, or use may result in fire, explosion, serious injury, or death.

This manual is intended for multiple audiences:

- **Users / Owners** – Operation and basic maintenance only
- **Installers** – Installation and electrical connection
- **Service Personnel** – Refrigerant handling, repair, and recovery

Sections marked “Professional Use Only” must be performed exclusively by licensed or certified technicians.

Failure to follow these instructions voids the warranty and may result in hazardous operation.

DANGER– RISK OF FIRE OR EXPLOSION



A2L



A2L

This appliance is charged with **R32 flammable refrigerant** (A2L classification).

	Please read the instruction manual before using the air conditioner.
	Please read the instruction manual before installing the air conditioner.
	Please read the instruction manual before repairing the air conditioner.

Compared with common refrigerant, R32 is an environmental-friendly refrigerant that has no harm to the ozone layer and weak greenhouse effect. Its GWP is 675. Because of its thermodynamic characteristics, R32 requires a smaller charging quantity to reach high energy efficiency.

R32 is odorless and may form a flammable atmosphere if leaked and exposed to an ignition source.

Improper installation, servicing, modification, or disposal will result in fire, explosion, serious injury, or death.

All installation, service, and refrigerant handling procedures must strictly comply with this manual and all applicable regulations.

Precautions

SAFETY RULES AND RECOMMENDATIONS FOR THE INSTALLER

1. Read this guide **before** installing and using the appliance
2. During the installation of the indoor and outdoor units, access to the working area should be forbidden to children. Unforeseeable accidents could occur.
3. Make sure that the base of the outdoor unit is firmly fixed.
4. Check that air cannot enter the refrigerant system and check for refrigerant leaks before turning on the air conditioner.
5. Carry out a test cycle after installing the air conditioner and record the operating data.
6. Protect the unit with a fuse of suitable capacity for the maximum input current or with another overload protection device.
7. Ensure that the mains voltage corresponds to the voltage on the rating plate. Keep the switch or power terminal clean. Connect the power terminal correctly and firmly into the socket, thereby avoiding the risk of electric shock or fire due to insufficient contact.
8. The appliance must be equipped with devices capable of disconnection from the mains power supply, and have a contact separation in all poles to provide full disconnection under "over voltage category III conditions". these devices must also be incorporated into the fixed wiring in accordance with the wiring rules.
9. Installation shall be performed only by licensed or certified HVAC professionals authorized to work with flammable refrigerants. Installation by unqualified persons may result in fire, electric shock, serious injury, or death, and voids the warranty.
10. Do not install the appliance at a distance of less than 50 cm from flammable substances (alcohol, etc.) or from pressurized containers (e.g. spray cans).
11. If the appliance is used in areas without the possibility of ventilation, precautions must be taken to prevent refrigerant gas leaks from remaining in the environment and creating the danger of fire.
12. The packaging materials are recyclable and should be disposed of in the separate waste bins. When no longer usable, dispose of the air conditioner at a specialized waste collection center.
13. Only use the air conditioner as instructed in this booklet. These instructions are not intended to cover every possible condition and situation. As with any electrical household appliance, common sense and caution are recommended for installation, operation, and maintenance.
14. The installer is solely responsible for ensuring that installation complies with all applicable national, state, provincial, and local electrical, mechanical, fire, and building codes. The manufacturer assumes no responsibility for damage, malfunction, or injury resulting from non-compliant installation.
15. Before accessing the terminals, all the power circuits must be disconnected from the power supply.

16. This appliance may be used by children aged 8 years and above and persons with reduced physical, sensory, or mental capabilities only under continuous supervision and after receiving instruction on safe use. Children shall not play with the appliance. Cleaning, maintenance, or inspection shall not be performed by children.
17. Cleaning and maintenance must be carried out by specialized technical personnel. In any case, disconnect the appliance from the mains electricity supply before carrying out any cleaning or maintenance. Cleaning, maintenance, or inspection shall not be performed by children.
18. Do not pull out the power terminal to switch off the appliance when it is in operation, as this could create a spark and cause a fire.
19. This appliance is made for air conditioning domestic environments and must not be used for any other purpose, such as for drying clothes, cooling food, etc.
20. Always use the appliance with the air filter mounted. Air conditioning without an air filter could cause an excessive accumulation of dust and/or lead inner to parts function failure.
21. The user is responsible for having the appliance installed by a qualified technician, who must check that earthing/grounding is done in accordance with current legislation and insert a thermal magnetic circuit breaker.
22. The batteries in the remote controller must be recycled or disposed of properly. For disposal of scrap batteries, please follow any and all local regulations.
23. Never remain directly exposed to the flow of cold air for a long time. The direct and prolonged exposure to cold air could be dangerous for your health. Particular care should be taken in the rooms where there are children, elderly or sick people.
24. If the appliance creates smoke or there is a smell of burning, immediately cut off the power supply and contact the Service Center. The prolonged use of the device in such conditions could cause fire or electrocution.
25. Have repairs carried out only by an authorised Service Center of the manufacturer. Incorrect repair could expose the user to the risk of electric shock, etc.
26. Unhook the automatic switch if you will not use the device for an extended time. The airflow direction must be properly adjusted.
27. Ensure that the appliance is disconnected from the power supply when it will be inoperative for an extended period and before cleaning or maintaining.
28. Selecting the most suitable temperature to prevent damage to the appliance.

SAFETY RULES AND PROHIBITIONS

1. Do not bend, tug or compress the power cord as this could damage it. Electrical shocks or fire are often due to a damaged power cord. Only specialized technical personnel are recommended to inspect damaged power cords.
2. Do not use extensions or gang modules.
3. Do not touch the appliance when barefoot or parts of the body are wet or damp.
4. Do not obstruct the air inlet or outlet of the indoor or the outdoor unit. The obstruction of these openings causes a reduction in the operating efficiency of the air conditioner with possible consequent failures or damages.
5. In no way alter the characteristics of the appliance.
6. Do not install the appliance in environments where the air could contain flammable gas, oil, or sulphur, near sources of heat.
7. This appliance is not intended for use by persons (including children) with reduced physical, sensory or mental capabilities, or lack of experience and knowledge, unless they have been given supervision or instruction concerning use of the appliance by a person responsible for their safety.
8. Do not climb onto or place any heavy or hot objects on top of the appliance.
9. Do not leave windows or doors open for long time when the air conditioner is operating.
10. Do not direct the airflow onto plants or animals.
11. Long direct exposure to the flow of cold air of the air conditioner could have negative effects on plants and animals.
12. Do not put the air conditioner in contact with water. The electrical insulation could be damaged and cause electrocution.
13. Do not climb onto or place any objects on the outdoor unit.
14. Never insert a stick or similar object into the appliance. It could cause injury.
15. Children should be supervised to ensure that they do not play with the appliance.
16. This unit is equipped with a refrigerant leak sensor for safety. To be effective, the unit must be electrically powered at all times after installation, other than during servicing. (Some models have refrigerant leak sensors, subject to the actual product received.)
17. This refrigerant sensor can only be replaced with a manufacturer approved sensor. If the sensor is replaced only as part of the component assembly, the component should be labeled. (Some models have refrigerant leak sensors, subject to the actual product received.)
18. The appliance shall be installed according to the manufacturer's instructions, and the ventilation pipe shall not exceed the maximum length and number of turns specified by the manufacturer.
19. Appliances shall be installed according to the instructions. Appliances that can be installed in different locations should be tested in all locations permitted by the manufacturer. The intake or 4 exhaust openings should not be covered and the manufacturer's recommended air filter should be installed according to the instructions.

NOTE - USER SERVICING PROHIBITED

Users shall not attempt to access, modify, repair, relocate, or service any internal components, refrigerant circuits, or electrical parts. Unauthorized servicing may result in fire, explosion, electric shock, serious injury, or death, and will void all warranties.

NOTE(WiFi models only)

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

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

Instruction for Servicing (R32)

EMERGENCY REFRIGERANT LEAK PROCEDURE

If a refrigerant leak is suspected or detected:

- i. Immediately disconnect electrical power.
- ii. Open doors and windows to ventilate the area.
- iii. Eliminate all ignition sources.
- iv. Evacuate all occupants from the space.
- v. Contact authorized service personnel.

Do not re-enter the area until the refrigerant has fully dissipated.

1. Check the information in this manual to find out the dimensions of space needed for proper installation of the device, including the minimum distances allowed compared to adjacent structures.
2. Appliance shall be installed, operated, and stored in a room with a floor area larger than 43 ft²(4m²)
3. The installation of pipe-work shall be kept to a minimum.
4. The pipe-work shall be protected from physical damage, and shall not be installed in an unventilated space if the space is smaller than 43 ft²(4m²)
5. The compliance with national gas regulations shall be observed.
6. The mechanical connections shall be accessible for maintenance purposes.
7. Follow the instructions given in this manual for handling, installing, cleaning, maintaining and disposing of the refrigerant.
8. Make sure ventilations openings are clear of obstruction.
9. **Notice:** The servicing shall be performed only as recommended by the manufacturer.
10. **Warning:** The appliance shall be stored in a well-ventilated area where the room size corresponds to the room area specified for operation.
11. **Warning:** The appliance shall be stored in a room without continuously operating open flames (an operating gas appliance, etc.) and ignition sources (an operating electric heater, etc.)
12. The appliance shall be stored so as to prevent mechanical damage from occurring.
13. Any person performing installation, maintenance, repair, or refrigerant handling **shall hold a valid and current certification** recognized by the applicable regulatory authority (e.g., EPA Section 608, F-Gas, or equivalent). Unauthorized servicing is strictly prohibited.
14. Every working procedure that affects safety shall only be performed by competent persons.

15. Warning:

- * Do not use any means to accelerate the defrosting process or clean the frost on your own. Follow the recommended guidelines from the manufacturer.
- * The appliance shall 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 refrigerants may not contain an odor.

Important Considerations

1. The air conditioner must be installed by professional personnel and the installation manual is intended only for the professional installation personnel. The installation specifications are subject to our after-sale service regulations.
2. When filling the combustible refrigerant, rough handling operations may cause serious injury or injuries to people and objects.
3. A leak test must be done after the installation completed.
4. A safety inspection must be done before maintaining or repairing an air conditioner using combustible refrigerant in order to ensure the fire risk is reduced to a minimum.
5. Operate the machine under a controlled procedure to ensure that any risk arising from combustible gas or vapor is reduced to a minimum.
6. Follow requirements for the total weight of filled refrigerant and the area of a room to be equipped with an air conditioner (as shown in Tables GG.1 and GG.2)

Refrigerant Charge and Room Area Limitations

In UL/CSA 60335-2-40, R32 refrigerant is classified as class A2L, which is mildly flammable. Therefore, R32 refrigerant is suitable for systems needing additional refrigerant charge, and which will limit the area of the rooms being served by the system. The total amount of refrigerant in the system shall be less than or equal to the allowable maximum refrigerant charge. The allowable maximum refrigerant charge depends on the area of the rooms being served by the system.

NOTE:

The abbreviations in this section are explained as follows:

Mc: The actual refrigerant charge in the system.

A: The actual room area where the appliance is installed.

Amin: The required minimum room area.

Mmax: The allowable maximum refrigerant charge in a room.

Qmin: The minimum circulation airflow.

Anvmin: The minimum opening area for connected rooms.

The maximum charge and the required minimum floor area

$$m_1 = (6 \text{ m}^3) \times \text{LFL}, m_2 = (52 \text{ m}^3) \times \text{LFL}, m_3 = (260 \text{ m}^3) \times \text{LFL}$$

Where LFL is the lower flammable limit in kg/m^3 , R32 LFL is 0.306 kg/m^3 .

For the appliances with a charge amount $m_1 < M = m_2$:

The maximum charge in a room shall be in accordance with the following:

$$M_{\max} = 2.5 \times (\text{LFL})^{(5/4)} \times h_0 \times (A)^{1/2} \text{ not to exceed } M_{\max} = \text{SF} \times \text{LFL} \times h_0 \times A \text{ (GG.3DV)}$$

The required minimum floor area $A_{\min}$ to install an appliance with refrigerant charge $M(\text{kg})$ shall be in accordance with the following: $A_{\min} = (M / (2.5 \times (\text{LFL})^{(5/4)} \times h_0))^2$ not less than $A_{\min} = M / (\text{SF} \times \text{LFL} \times h_0)$ (GG.4DV)

Table GG.1 - Maximum charge (kg)

Category	LFL (kg/ft ³)	h ₀ (ft)	Floor area (ft ²)						
			43	75.3	107.6	161.4	215.2	322.9	538.1
R32	10.8	8.2	16.4	28.8	41.2	59.3	68.4	83.8	108.2
		9.1	18.4	32.2	46	66.4	76.6	93.9	121.3
		9.8	19.8	34.5	49.4	71.1	82.1	100.6	129.9

Category	LFL (kg/m ³)	h ₀ (m)	Floor area (m ²)						
			4	7	10	15	20	30	50
R32	0.306	2.5	1.53	2.68	3.83	5.51	6.36	7.79	10.06
		2.8	1.71	3.00	4.28	6.17	7.12	8.73	11.27
		3	1.84	3.21	4.59	6.61	7.63	9.35	12.07

For R32 refrigerant charge amount and minimum room area:

The machine you purchased may be one of the types in the table below. The indoor and outdoor units are designed to be used together. Please check the machine you purchased. The indoor unit should be installed at least 8.2ft /2.5m above the floor, and the minimum room area of operating or storage should be as specified in the following table:

Table GG.2 - Minimum room area

Category	LFL (kg/ft ³)	h ₀ (ft)	Charge amount (M) (kg) Minimum room area (ft ²)						
			6.2	6.4	10.7	11.5	12.9	17	21.5
R32	10.8	8.2	16.3	16.9	28	30.1	33.7	44.4	56.2
		9.1	14.5	15	25	26.9	30.1	39.7	50.2
		9.8	13.5	14.1	23.4	25	28	37	46.9

Category	LFL (kg/m ³)	h ₀ (m)	Charge amount (M) (kg) Minimum room area (m ²)						
			0.58	0.60	1.00	1.07	1.20	1.58	2.00
R32	0.306	2.5	1.52	1.57	2.61	2.80	3.14	4.13	5.23
		2.8	1.35	1.40	2.33	2.50	2.80	3.69	4.67
		3	1.26	1.31	2.18	2.33	2.61	3.44	4.36



Caution: Risk of fire

$\geq \text{Am}^2$
A2L



Read operator's manual



Read operating instructions



Caution: Risk of fire

A2L



Read technical manual

16. Information on servicing:

1) Check the area

Prior to beginning work on systems containing flammable refrigerants, perform safety checks to minimize the risk of ignition. For repair to the refrigerating system, the following precautions shall be complied with prior to conducting work on the system.

2) Work procedure

Perform work under a controlled procedure to minimize the risk of a flammable gas or vapor being present while the work is being performed.

3) General work area

Instruct all maintenance staff and other working in the local area on the nature of work being carried out. Avoid work in confined spaces. Section off the area around the workspace. Ensure that the conditions within the area have been made safe by control of flammable material.

4) Checking for presence of refrigerant

Check the area with an appropriate refrigerant detector prior to and during work, to ensure the technician is aware of potential flammable atmospheres. Ensure that the leak detection equipment is suitable for use with flammable refrigerants, i.e. non-sparking, adequately sealed, or intrinsically safe.

5) Presence of fire extinguisher

If any hot work is to be conducted on the refrigeration equipment or any associated parts, keep appropriate fire extinguishing equipment on hand. Keep a dry powder or CO₂ fire extinguisher adjacent to the charging area.

6) No ignition sources

No person carrying out work in relation to a refrigeration system which involves exposing pipe work shall use any sources of ignition in such a manner that it may lead to the risk of fire or explosion. All possible ignition sources, including cigarette smoking, should be kept sufficiently far away from the site of installation, repairing, removing, and disposal, during which refrigerant can possibly be released to the surrounding space. Prior to work taking place, the area around the equipment is to be surveyed for flammable hazards or ignition risks. Display “No Smoking” signs.

7) Ventilated area

Ensure that the area is in the open or that it is adequately ventilated before opening the system or conducting any work that will produce heat. Ensure ventilation continues during the period that the work is carried out. The ventilation should safely disperse any released refrigerant and expel it externally into the atmosphere.

8) Checks to the refrigeration equipment

Where electrical components are being changed, they shall be fit for the intended purpose and to the correct specification. At all times the manufacturer’s maintenance and service guidelines shall be followed. If in doubt consult the manufacturer’s technical department for assistance.

The following checks shall be applied to installation using flammable refrigerant:

- The charge size is in accordance with the room size where the refrigerant containing parts are installed.
- The ventilation machinery and outlets are operating adequately and are not obstructed;
- If an indirect refrigerating circuit is being used, the secondary circuit shall be checked for refrigerant.
- Marking on the equipment continues to be visible and legible. Correct markings and signs that are illegible.
- Refrigeration pipe or components are installed in a position where they are unlikely to be exposed to corrosive substances, unless the components are constructed of materials which are inherently corrosion resistant or are suitably protected against corrosion.

9) Checks to electrical devices

Repair and maintenance to electrical components shall include initial safety checks and components inspection procedures. If a fault exists that could compromise safety, then do not connect electrical supply to the circuit until it is satisfactorily dealt with. If the fault cannot be corrected immediately but it is necessary to continue operation, use an adequate temporary solution. Report to the owner of the equipment so all parties are advised.

Perform initial safety checks

- That capacitors are discharge: this shall be done in a safe manner to avoid the possibility of sparkings
- That no live electrical components are wiring are exposed while charging, recovering, or purging the system.
- That there is continuity of earth bonding.

17. Repairs to sealed components

Sealed electrical components shall be replaced.

18. Repair to intrinsically safe components

Intrinsically safe components must be replaced.

19. Cabling

Check that cabling will not be subject to wear, corrosion, excessive pressure, vibration, sharp edges or any other adverse environmental effects. The check shall also take into account the effects of aging or continual vibration from sources such as compressors or fans.

20. Detection of flammable refrigerants

Under no circumstances shall potential sources of ignition be used in the searching for or detection of refrigerant leaks. Do not use a halide torch (or any other detector using a naked flame).

21. Leak detection methods

The following leak detection methods are deemed acceptable for systems containing flammable refrigerants

Electronic leak detectors shall be used to detect flammable refrigerants, but the sensitivity may not be adequate, or may need re-calibration. (Detection equipment shall be calibrated in a refrigerant-free area.) Ensure that the detector is not a potential source of ignition and is suitable for the refrigerant used. Leak detection equipment shall be set at a percentage of the LFL of the refrigerant and shall be calibrated to the refrigerant employed and the appropriate percentage of gas (25% maximum) is confirmed. Leak detection fluids are suitable for use with most refrigerants but the use of detergents containing chlorine shall be avoided as the chlorine may react with the refrigerant and corrode the copper pipe-work. If a leak is suspected, all naked flames shall be removed or extinguished. If a leakage of refrigerant is found that requires brazing, all of the refrigerant shall be recovered from the system, or isolated (by shut off valves) in a part of the system remote from the leak. Oxygen free nitrogen (OFN) shall then be purgd through the system both before and during the brazing process.

22. Removal and evacuation

When breaking into the refrigerant circuit to make repairs, or for any other purpose, use conventional procedures. However, it is important that best practice is followed due to flammability. The following procedure shall be adhered to:

- Remove refrigerant

-- Purge the circuit with inert gas

-- Evacuate

-- Purge again with inert gas

-- Open the circuit by cutting or brazing

The refrigerant charge shall be recovered into the correct recovery cylinders. The system shall be flushed with OFN to render the unit safe. This process may need to be repeated several times.

Compressed air or oxygen shall not be used for this task.

Flushing shall be achieved by breaking the vacuum in the system with OFN and continuing to fill until the working pressure is achieved, then venting to atmosphere, and finally pulling down to a vacuum. This process shall be repeated until no refrigerant is within the system. When the final OFN charge is used, the system shall be vented down to atmospheric pressure to enable work to take place. This operation is absolutely vital if brazing operations on the pipe-work are to take place.

Ensure that the outlet for the vacuum pump is not close to any ignition sources and ventilation is available.

23. Decommissioning

Before carrying out this procedure, it is essential that the technician is completely familiar with the equipment and all its details. It is recommended good practice that all refrigerants are recovered safely. Prior to the task being carried out, an oil and refrigerant sample shall be taken in case analysis is required prior to re-use of reclaimed refrigerant. It is essential that electrical power is available before the task is commenced.

1) Become familiar with the equipment and its operation.

2) Isolate system electrically.

3) Before attempting the procedure, ensure that:

- Mechanical handling equipment is available, if required, for handling refrigerant cylinders
- All personal protective equipment is available and being used correctly
- The recovery process is supervised at all times by a competent person
- Recovery equipment and cylinders conform to the appropriate standards

4) Pump down refrigerant system, if possible.

5) If a vacuum is not possible, make a manifold so that refrigerant can be removed from various parts of the system.

6) Make sure that cylinder is situated on the scales before recovery takes place.

7) Start the recovery machine and operate in accordance with manufacturer's instructions.

8) Do not overfill cylinders. (No more than 80% volume liquid charge).

9) Do not exceed the maximum working pressure of the cylinder, even temporarily.

- 10) When the cylinders have been filled correctly and the process is completed, make sure that the cylinders and the equipment are removed from site promptly and all isolation valves on the equipment are closed off.
- 11) Recovered refrigerant shall not be charged into another refrigeration system unless it has been cleaned and checked.

24. Labeling

Equipment shall be labeled stating that it has been de-commissioned and emptied of refrigerant. The label shall be dated and signed. Ensure that there are labels on the equipment stating the equipment contains flammable refrigerant.

25. Recovery

When removing refrigerant from a system, either for servicing or decommissioning, it is recommended good practice that all refrigerants are removed safely.

When transferring refrigerant into cylinders, ensure that only appropriate refrigerant recovery cylinders are employed. Ensure that the correct number of cylinders for holding the total system charge are available. All cylinders to be used are designated for the recovered refrigerant and labeled for that refrigerant (i.e. Special cylinders for the recovery of refrigerant). Cylinders shall be complete with pressure-relief valve and associated shut-off valves in good working order.

Empty recovery cylinders are evacuated and, if possible, cooled before recovery occurs.

The recovery equipment shall be in good working order with a set of instructions concerning the equipment on hand, and shall be suitable for the recovery of all appropriate refrigerants, including, when applicable, flammable refrigerants. In addition, a set of calibrated weighing scales shall be available and in good working order. Hoses shall be complete with leak-free disconnect couplings and in good condition. Before using the recovery machine, check that it is in satisfactory working order, has been properly maintained, and that any associated electrical components are sealed to prevent ignition in the event of a refrigerant release. Consult manufacturer if in doubt.

The recovered refrigerant shall be returned to the refrigerant supplier in the correct recover cylinder. and the relevant waste transfer note attached. Do not mix refrigerants in recovery units, especially not in cylinders.

If compressors or compressor oils are to be removed, ensure that they have been evacuated to an acceptable level so that flammable refrigerant does not remain within the lubricant.

The evacuation process shall be carried out prior to returning the compressor to the suppliers.

Only electric heating to the compressor body can be employed to accelerate this process. When oil is drained from a system, it shall be carried out safely.

26. Warning:

- 1) Do not use means to accelerate the defrosting or cleaning process, other than those recommended by the manufacturer.
- 2) The appliance shall be stored in a room without continuously operating ignition sources (e.g. open flames, an operating gas appliance, or an operating electric heater).
- 3) Do not pierce or burn.
- 4) Be aware that refrigerants may not contain an odor.

27. Statement

- 1) Please use a flammable gas detector to check before unloading and opening the container.
- 2) No fire source or smoking.
- 3) Pipe work shall be protected from physical damage and, in the case of FLAMMABLE REFRIGERANTS, shall not be installed in an unventilated space, if that space is smaller than Amin in Annex GG, except for A2L REFRIGERANTS where the installed pipes comply with UL 60335-2-40 Clause. In case of field charge, the effect on REFRIGERANT CHARGE caused by the different pipe length has to be quantified.
- 4) Compliance with national gas regulations shall be observed.
- 5) Must be shipped with a FLAMMABLE REFRIGERANT CHARGE. Joints made in the installation between parts of the REFRIGERATING SYSTEM, with at least one part charged, shall be made in accordance with the following:
 - A brazed, welded, or mechanical connection shall be made before opening the valves to permit refrigerant to flow between the REFRIGERATING SYSTEM parts. Provide a vacuum valve to evacuate the interconnecting pipe and/or any uncharged REFRIGERATING SYSTEM part.
 - Mechanical connectors used indoors shall comply with ISO 14903. When mechanical connectors are reused indoors, renew sealing parts. When flared joints are reused indoors, re-fabricate the flare part.
 - Protect or enclose refrigerant tubing to avoid damage.
 - Protect flexible refrigerant connectors (such as connecting lines between the indoor and outdoor unit) that may be displaced during NORMAL OPERATION against mechanical damage.
- 6) Pipe work including piping material, pipe routing, and installation shall include protection from physical damage in operation and service, and be in compliance with national and local codes and standards, such as ASHRAE 15, ASHRAE 15.2, IAPMO Uniform Mechanical code, ICC International Mechanical Code, or CSA B52. All field joints shall be accessible for inspection prior to being covered or enclosed.

7) After completion of field piping for split systems, pressure test the field pipe work with an inert gas and then vacuum test prior to refrigerant charging, according to the following requirements.

8) The appliance shall be stored to prevent mechanical damage from occurring.

9) Working personnel for maintenance, service, and repair operations must be present. Every working procedure that affects safety means shall only be carried out by competent persons according to Annex HH.

Examples for such working procedures are:

- breaking into the refrigerating circuit
- opening of sealed components
- opening of ventilated enclosures

INTENDED USE LIMITATION

This appliance is designed solely for residential and light commercial air conditioning applications.

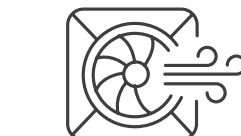
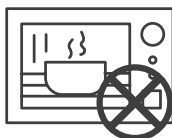
Any use outside the scope described in this manual—including industrial cooling, food preservation, or process control—is prohibited and voids all warranties.

Operation Safety Principles

1. Site Safety



Open Flames Prohibited



Ventilation Necessary

Operation Safety



Mind Static Electricity



Must Wear Protective Clothing and Anti-Static Gloves



Don't Use Mobile Phone

2. Installation Safety

- Refrigerant Leak Detector
- Appropriate Installation Location

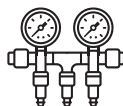
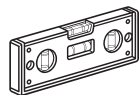
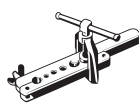
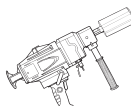
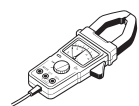


The left picture is the schematic diagram of a refrigerant leak detector.

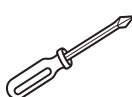
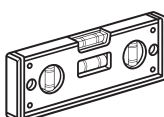
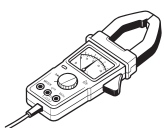
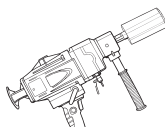
Please note that:

- 1) The installation site should be well-ventilated.
- 2) The sites for installing and maintaining an air conditioner using Refrigerant R32 should be free from open fire or welding, smoking, drying oven or any other heat source higher than 1000°F (548°C) which easily produces open fire.
- 3) When installing an air conditioner, it is necessary to take appropriate anti-static measures such as wear anti-static clothing and/or gloves.
- 4) It is necessary to choose the site convenient for installation or maintenance wherein the air inlets and outlets of the indoor and outdoor units should be not surrounded by obstacles or close to any heat source or combustible and/or explosive environment.
- 5) If the indoor unit suffers refrigerant leak during the installation, it is necessary to immediately turn off the valve of the outdoor unit and all the personnel should go out till the refrigerant leaks completely for 15 minutes. If the product is damaged, it is a must to carry such damaged product back to the maintenance station and it is prohibited to weld the refrigerant pipe or conduct other operations on the user's site.
- 6) It is necessary to avoid the places where there are other electrical products, power switch plugs and sockets, kitchen cabinet, bed, sofa and other valuables right under the lines on two sides of the indoor unit.

Suggested Tools for Traditional Install

Tool	Picture	Tool	Picture	Tool	Picture
Standard Wrench		Pipe Cutter		Vacuum Pump	
Adjustable/ Crescent Wrench		Screw Drivers (Phillips & Flat blade)		Safety Glasses	
Torque Wrench		Manifold and Gauges		Work Gloves	
Hex Keys or Allen Wrenches		Level		Refrigerant Scale	
Drill & Drill Bits		Flaring tool		Micron Gauge	
Hole Saw		Clamp on Amp Meter		Welding Gun	

Suggested Tools for Install with MRCOOL® DIY® Quick Connect Pre-Charged Line Sets

Tool	Picture	Tool	Picture
Standard Wrench		Safety Glasses	
Adjustable/ Crescent Wrench		Screw Drivers (Phillips & Flat blade)	
Torque Wrench		Work Gloves	
Hex Keys or Allen Wrenches		Level	
Drill & Drill Bits		Clamp on Amp Meter	
Hole Saw			

Operating Condition	
Inverter Air Conditioner:	
HEATING	Room temperature 32° F~80° F(0° C~27° C)
	Outdoor temperature -13° F~75° F(-25° C~24° C)
COOLING/ DRY	Room temperature 63° F~90° F(17° C~32° C)
	Outdoor temperature T1 climate: 5° F~127° F(-15° C~53° C)

With the power supply connected, restart the air conditioner after shutdown, or switch it to other mode during operation, and the air conditioner protection device will start. The compressor will resume operation after 3 minutes.

Features of Protector
1. The protective device will trip in the following cases • Stopping the appliance and restarting it at once, or changing other modes during operation. You have to wait 3 min before restarting. • After switching on the power circuit breaker and immediately turning on the air conditioner. You have to wait about 20 seconds. 2. In case all operations have stopped, you need to: • Press the "ON/OFF" button again to restart. • Set TIMER once again if it has been canceled.

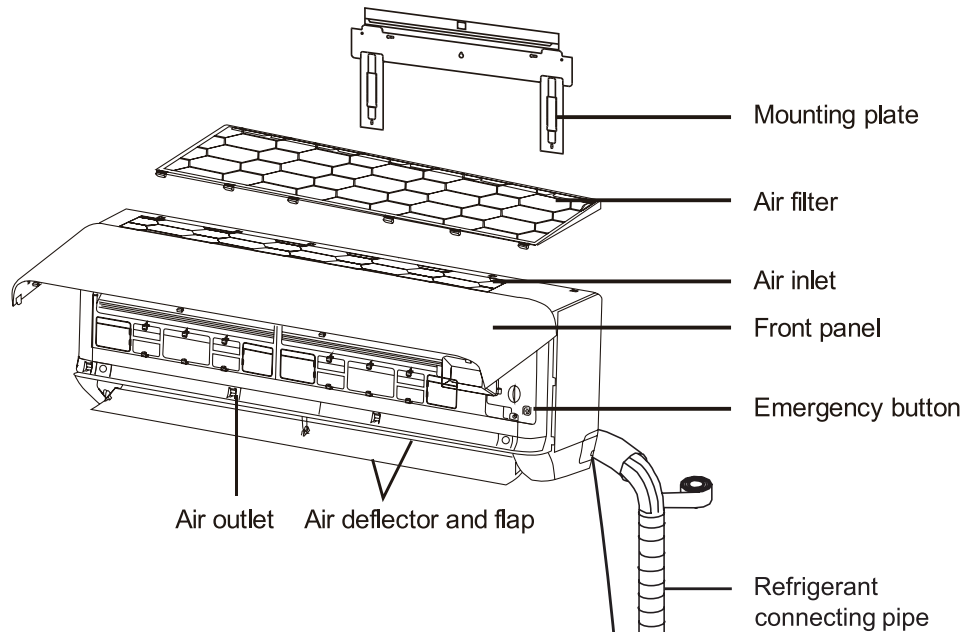
Noise Pollution
• Install the air conditioner in a place that can bear its weight in order to operate more quietly. • Install the outdoor unit in a place where the air discharged and the operation noise do not annoy your neighbors. • Do not place any obstacles in front of the outlet of the outdoor unit, it might affect operation and increase the noise level.

Inspection
After a long time of operation, the air conditioner should be inspected for the following items. • Abnormal heating of the power supply cord or a burnt smell. • Abnormal operating noise or vibration. • Water leakage from the indoor unit. • Metal cabinet electrified. • Stop using the air conditioner if the above problems occurred. • The air conditioner should be given a detailed check-up after using for five years, even if none of the above happens.

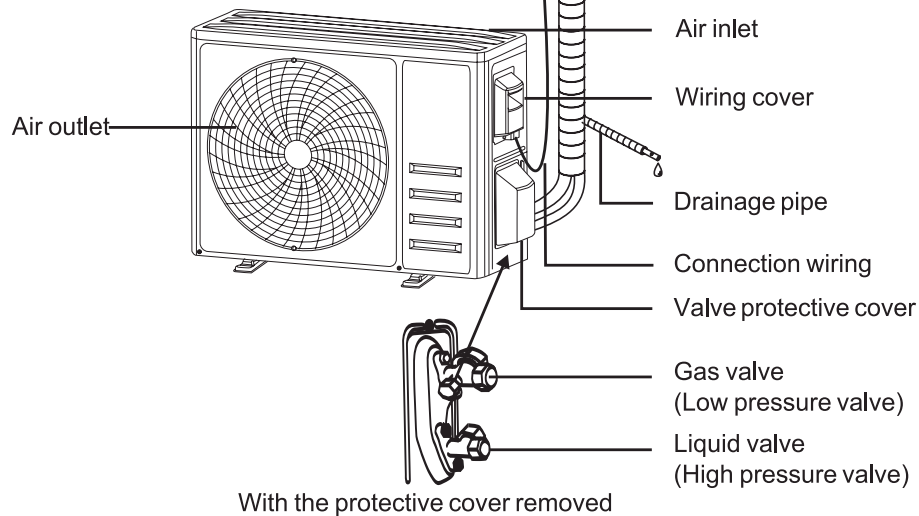
Features of HEATING Mode
Preheat 2-5 minutes are necessary to preheat the indoor heat exchanger at the beginning of "HEATING" operation, lest cold air be discharged. Defrost In "HEATING" operation the appliance will defrost automatically. This procedure lasts 2~10 minutes, then returns to "HEATING" mode automatically. During defrosting, indoor fan will stop running and return to heating mode operation automatically when defrosting has finished.

Names of Parts

Indoor Unit



Outdoor Unit

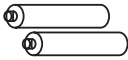


Requirements

- When the air temperature is below 5° F (-15° C), the air conditioner cannot be started up until it is powered on for 2 hours. Furthermore, in case of a shutdown lasting for one day only, please do not cut off the electricity supply.
 - Notice that the air inlet/outlet must not be choked up. If a chokeup takes place, the air conditioner behavior may be affected, or the air conditioner cannot run due to actuation of the protector.
- Please check whether the following list of accessories are of full scope. If there are some spare items, please store them carefully aside.

Note: The figure shown may be different from the actual object. Please take the latter as the standard.

Packing list:

Serial number	Name	Quantity	Sketch map
1	Remote control unit	×1	
2	Battery	×2	
3	Drain pipe assembly (some models)	×1	
4	Copper nut	2~4 (Depending on models)	
5	Instruction book	1~2 (Depending on models)	
6	Mounting plate + Cardboard template	1+1	
7	Anchor	6~8 (Depending on models)	
8	Tapping screw	6~8 (Depending on models)	
9	Mounting foot pads for the outdoor unit (some models)	×2	
10	Connecting pipe (some models)	×1	
11	Connecting wire (some models)	×1	
12	Wall sleeve (some models)	×1	
13	Insulation pipe (some models)	×1	
14	Pipe tape (some models)	×1	
15	Wall sleeve cover (some models)	×1	
16	Sealant (some models)	×2	

Display Panel

Infrared signal receiver: receive signal from the remote controller.

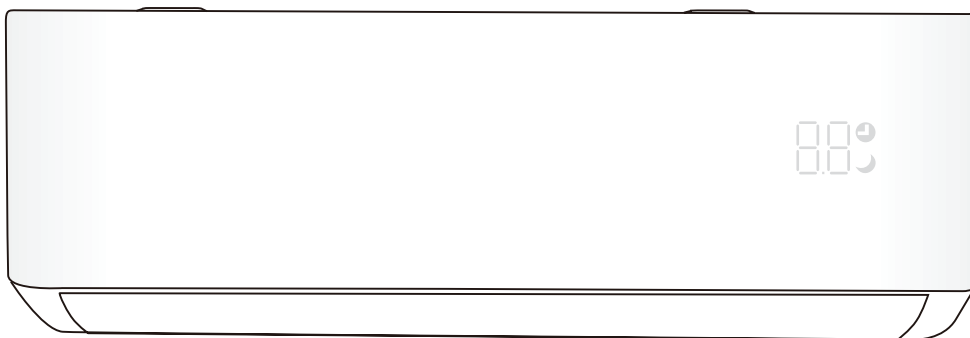
To make your remote controller operation more efficient, please aim the remote controller at the infrared signal receiver.

Buzzer: first power supplied or remote controller operations will make the buzzer sound once.

Some obstacles occurring in the system will be recognized by the intelligent unit recognition system.

Lighting on the DISPLAY PANEL will flash showing the type of obstacles.

DISPLAY PANEL

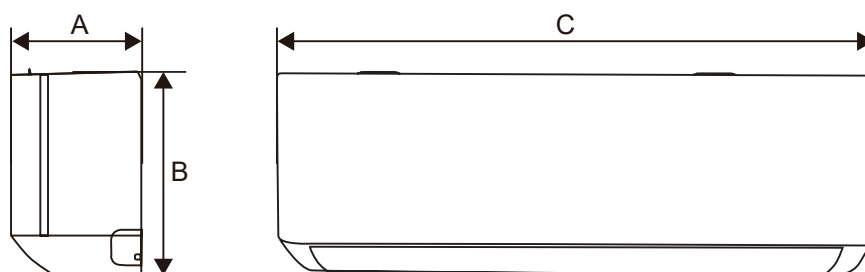


No.	Led	Function
1		Indicator for Timer, temperature and Error codes.
2		Lights up during Timer operation.
3		SLEEP mode

 The shape and position of switches and indicators may be different according to the model, but their function is the same.

Indoor Unit Installation

Please select the space to install indoor unit according to the dimension show above, then install correctly, with enough space for maintenance.

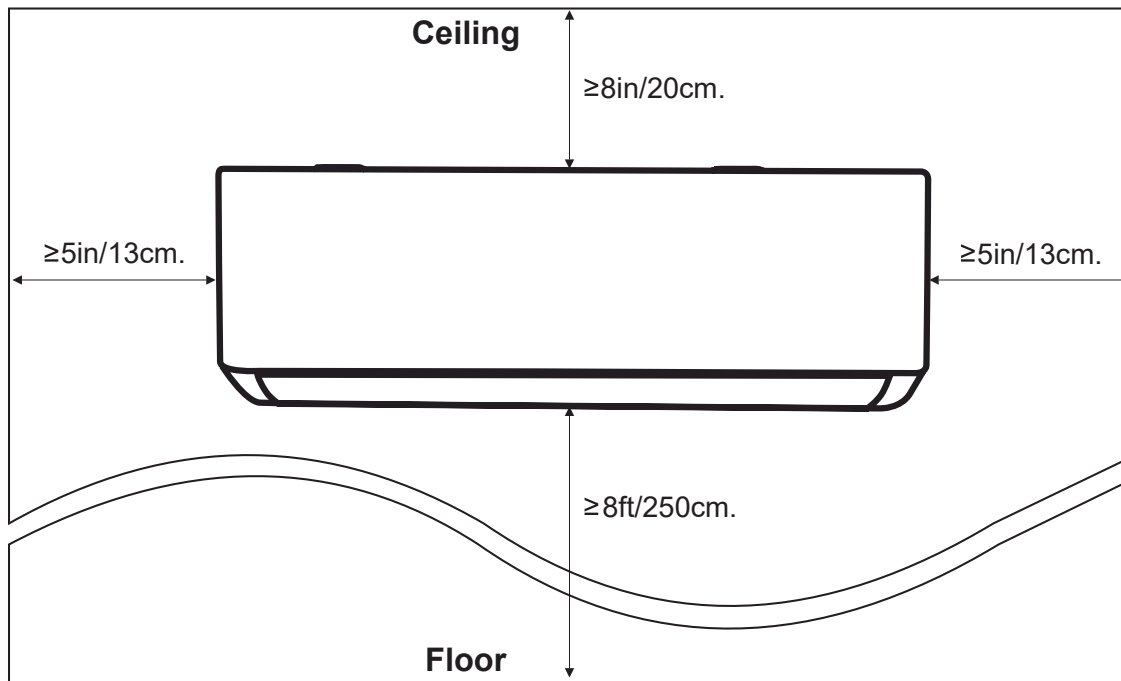


Model	Indoor unit (mm)		
	A	B	C
9K(800T)	195	306	820
12K(900T)	195	306	920
18K(900T)	195	306	920
24K(1080T)	222	332	1097

Step 1: Select Installation Location

- 1) Ensure the installation complies with the installation minimum dimensions (defined below) and meets the minimum and maximum connecting piping length and maximum change in elevation as defined in the System Requirements section.
- 2) Air inlet and outlet will be clear of obstructions, ensuring proper airflow throughout the room.
- 3) Condensate can be easily and safely drained.
- 4) All connections can be easily made to outdoor unit.
- 5) Indoor unit is out of reach of children.
- 6) A mounting wall strong enough to withstand four times the full weight and vibration of the unit.
- 7) Filter can be easily accessed for cleaning.
- 8) Leave enough free space to allow access for routine maintenance.
- 9) Install at least 10 ft. (3m) away from the antenna of TV set or radio. Operation of the air conditioner may interfere with radio or TV reception in areas where reception is weak. An amplifier may be required for the affected device.
- 10) Do not install in a laundry room or by a swimming pool due to the corrosive environment.
- 11) For ETL certification area, Caution: Mount with the lowest moving parts at least 8 ft. (2.4 m) above floor or grade level.

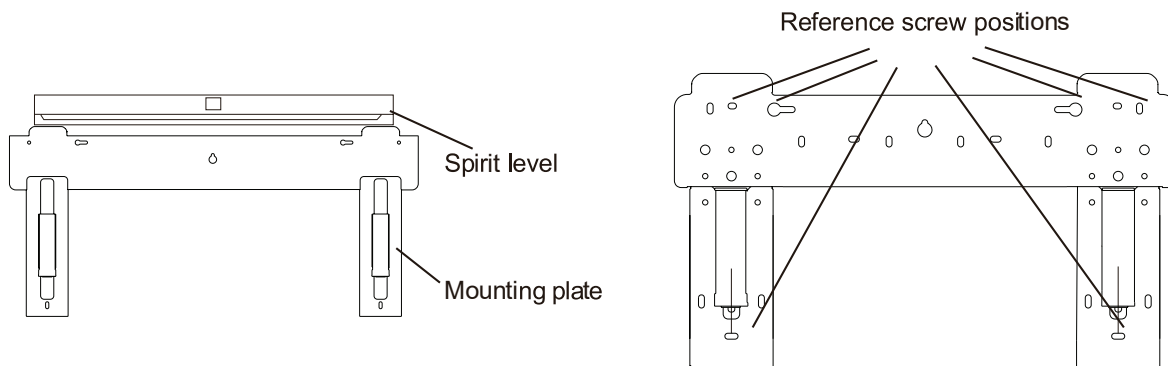
Minimum Indoor Clearances



Step 2: Install Mounting Plate

- 1) Take the mounting plate from the back of indoor unit.
- 2) Meet the minimum installation dimension requirements as directed in Step 1. According to the size of the mounting plate, determine the position and stick the mounting plate close to the wall.
- 3) Adjust the mounting plate to a horizontal state with a spirit level, then mark out the screw hole positions on the wall.
- 4) Put down the mounting plate and drill holes in the marked positions with drill.
- 5) Insert expansion rubber plugs into the holes, then hang the mounting plate and fix it with screws.

Note: Manufacturer highly recommends installing indoor unit in walls made of brick, concrete, or similar materials.



Note:

1. Make sure the mounting plate is firm enough and flat against the wall after installation.
2. The figure shown may be different from the actual object. Please take the latter as the standard.

Step 3: Drill Wall Hole

Drill a hole in the wall for refrigerant piping, the drainage pipe, and connecting cables.

- 1) Determine the wall hole location based on the position of mounting plate.
- 2) The hole should be 70mm in diameter at least and a slight downward angle to facilitate drainage.
- 3) Drill the wall hole with 70mm core drill and with a slight downward angle lower than the indoor end, about 5mm to 10mm.

Optional: Place the wall sleeve and wall sleeve cover to protect the connection parts.

Caution:

When drilling the wall hole, make sure to avoid wires, plumbing, and other sensitive components.



DANGER:

Do NOT connect or disconnect line set unless system is fully sealed and service valves are closed.

Open service valve ONLY after the line set is fully installed, secured, and leak-checked.

This unit can be installed using traditional line sets or with MRCOOL® DIY® Quick Connect Pre-Charged Line Sets.

The MRCOOL® DIY® Quick Connect Pre-Charged Line Set enables a Do-It-Yourself installation. If you do not feel comfortable attempting this, please contact a qualified HVAC technician.

If following the DIY install continue reading. If not, and you are a qualified HVAC technician, proceed to page 32.

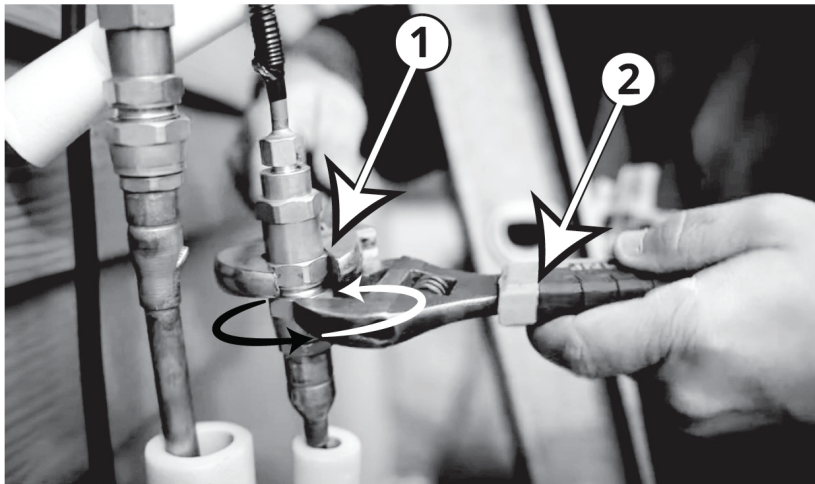
Step 4: Connecting Refrigerant to Indoor Unit

Connecting MRCOOL® DIY® Quick Connect Pre-Charged Line Set to Indoor Unit

- 1) Do not remove the plastic seals from the indoor equipment and the appropriate refrigerant pipe until immediately before you connect them.
- 2) Align the refrigerant pipe correctly, and make sure the dimensions of the connecting refrigerant pipe are the same. Place the screw connector on the refrigerant pipes onto the thread on the indoor equipment and tighten the first few threads by hand.



3) Using the image as a guide, you will now tighten the nuts of the screw connectors of the Quick Connect® line set to the indoor unit. Using two appropriate sized open-ended wrenches (depending on the dimensions of the connector) or adjustable crescent wrenches, place one of the wrenches on the nut marked “1”, and the other wrench on the nut marked “2,” as shown in the image below. Now, turn the wrench marked “2” in the direction of the rotational arrows, as shown, while holding the other wrench in place. Continue to tighten the connector until snug. Work quickly while ensuring that the screw connectors do not skew as you tighten them.



IMPORTANT:
Since the coupling works with tapping rings, it may leak if you disconnect and reconnect the pipes. This will also void the warranty.

TORQUE REQUIREMENTS

1. Excessive force can break the connector or damage the refrigerant piping. You must not exceed the torque requirements shown in the table below.
 2. You can find the Outer Pipe Diameter stamped (in inches) on the valve set of the condenser. Refer to this when finding and applying the torque values in the table below.
 3. Please note that there may be a difference in Torque Wrenches (i.e. automotive torque wrench versus an HVAC torque wrench) and that a socket style wrench cannot be used in this installation.
- NOTE:** Torque ratings in the table below are to be used if you have access to an HVAC torque wrench. These are available for purchase from online retailers. However, it is possible to complete installation of refrigerant line sets with conventional open-ended/crescent wrenches. It is imperative, however, that you not over-tighten the connector, and that once the lines have been fully connected, you follow the steps to check the pipe connections for leaks. If you do not feel comfortable attempting this, please contact a qualified HVAC technician.

TORQUE SPECS

Stamp (On Connector)	Coupling Size inch (Millimeter)	Tightening Torque lb-ft (N-m)
FA06	3/8in (9.5mm)	18-20lb/ft (24.4-27.1Nm)
FA09	1/2in (12.7mm)	30-35lb/ft (40.6-47.4Nm)
FA12	3/4in (19.1mm)	45-50lb/ft (61.0-37.7Nm)
FA16	1in (25.4mm)	60-65lb/ft (81.3-88.1Nm)

4) After finishing the connection, use the tape to wrap the refrigerant pipe and connecting cable together.

NOTE: In North America, the cable should be protected by an applicable conduit.

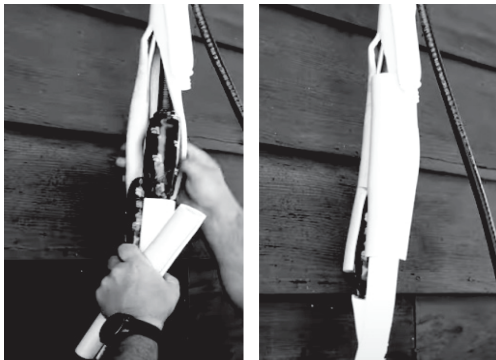


5) After connecting the quick connectors, pass the drain hose and refrigerant pipes through the wall hole.

NOTE: The quick connector parts must be located outside of the room. Use the wall hole sleeve, cap, and neoprene to seal the wall hole.



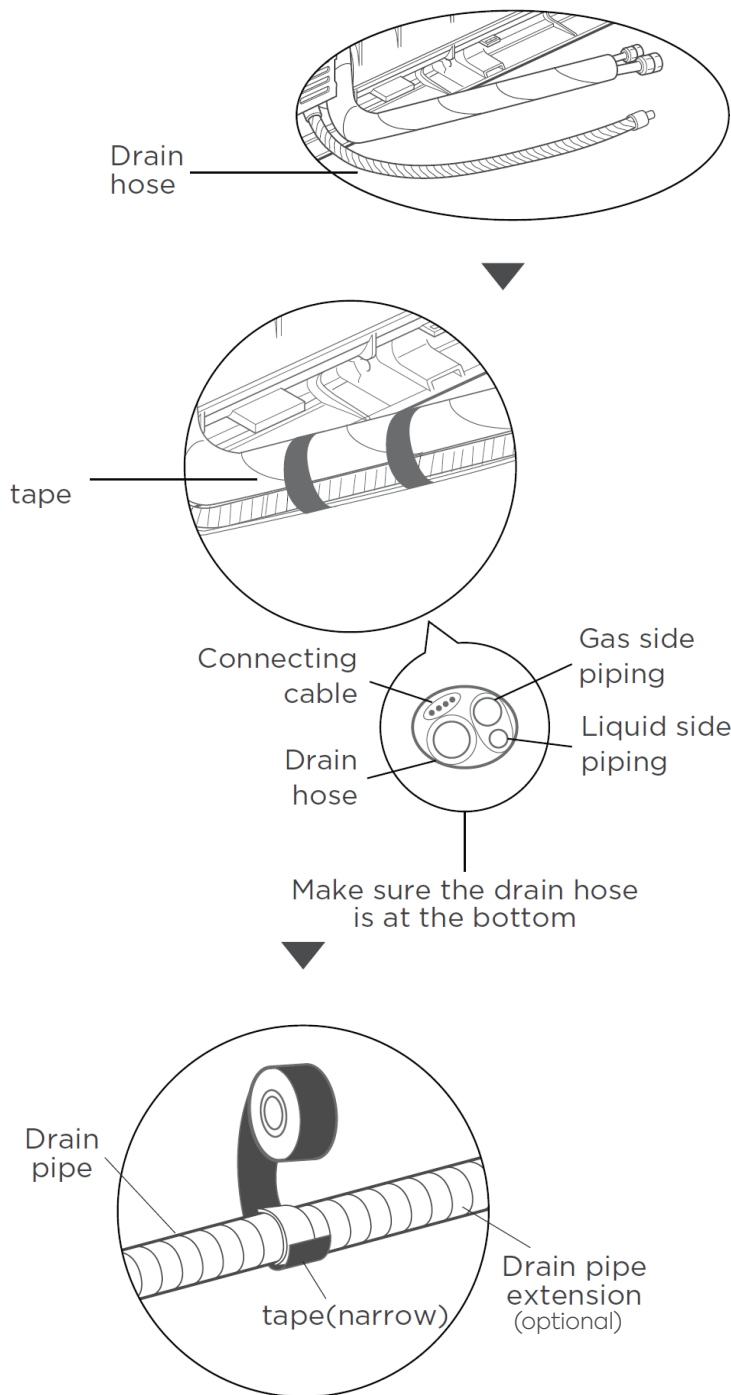
6) Wrap the connectors with the black insulation material. For the exposed portion on the top, use the supplied white insulation material to wrap it up completely.



7) Finally, use the tape to wrap the refrigerant pipe and drain hose together. The cable should be protected by an applicable conduit.

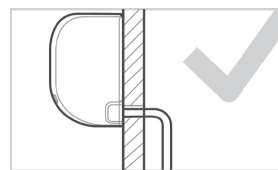


Connect Drain Hose



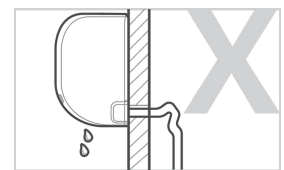
The drain hose can be attached to the left or right side. To ensure proper drainage, attach the drain hose on the same side that the refrigerant piping exits the unit. Attach a drain hose extension (purchased separately) to the end of the drain hose.

- Wrap the connection point firmly with Teflon tape to ensure a good seal to prevent leaks.
- For the portion of the drain hose that will remain indoors, wrap it with foam pipe insulation to prevent condensation.
- Remove the air filter and pour a small amount of water into the drain pan to ensure the water flows from the unit smoothly.



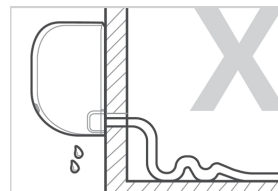
CORRECT

Make sure there are no kinks or dents in the drain hose to ensure proper drainage.



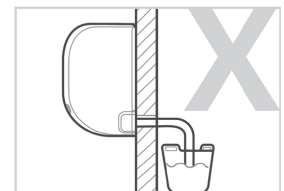
NOT CORRECT

Kinks in the drain hose will create water traps.



NOT CORRECT

Kinks in the drain hose will create water traps.

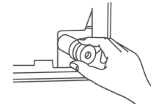


NOT CORRECT

Do not place the end of the drain hose in water or in containers that collect water. This will prevent proper drainage.

PLUG THE UNUSED DRAIN HOLE

To prevent unwanted leaks you must plug the unused drain hole with the rubber plug provided.



Electrical Wiring

⚠ WARNING:

Before performing any electrical work, read the following regulations.
Before performing any electrical work, disconnect the main power to the system.

⚠ WARNING:

All wiring must be performed strictly in accordance with the wiring diagram located on the back of the indoor unit's front panel.

Electrical Wiring cont.

Capacity (Btu/h)	Power Supply	Amperage		AWG
		Min.	Max.	Min.
9K	115V~, 60Hz, 1 Phase	17	20	12
12K		19.5	20	12
18K	208/230V~, 60Hz, 1 Phase	15	20	12
24K		19	20	12

* Wire size is a recommendation based on the MCA, always follow local codes and inspector recommendations.

Select the Correct Cable:

See table to the left for gauge requirements.

NOTE: The table to the left is a standard chart, the AWG ratings and wiring needs will change based on wire length and temperature.

Note on Fuse Specifications:

The air conditioner's circuit board (PCB) is designed with a fuse to provide overcurrent protection.

The specifications of the fuse are printed on the circuit board.

EXAMPLE: T3.15L/250VAC, T5AL/250VAC, T3.15/250VAC, T5A/250VAC, T20/250VAC, T30A/250VAC, etc.

NOTE: Only blast-proof ceramic fuses can be used.

- 1) All wiring must comply with local and national electrical codes, regulations, and must be installed by a licensed electrician.
- 2) All electrical connections must be made according to the Electrical Connection Diagram located on the panels of the indoor and outdoor units.
- 3) If there is a serious safety issue with the power supply, stop work immediately. Explain your reasoning to the client, and refuse to install the unit until the safety issue is properly resolved.
- 4) If connecting power to fixed wiring, a surge protector and main power switch should be installed.
- 5) Only connect the unit to an individual branch circuit outlet. Do not connect another appliance to that outlet.
- 6) Make sure to properly ground the unit.
- 7) Every wire must be firmly connected. Loose wiring can cause the terminal to overheat, resulting in product malfunction and possible fire.
- 8) Do not let wires touch or rest against refrigerant tubing, the compressor, or any moving parts within the unit.
- 9) To avoid getting an electric shock, never touch the electrical components soon after the power supply has been turned off. After turning off the power, always wait 10 minutes or more before you touch the electrical components.

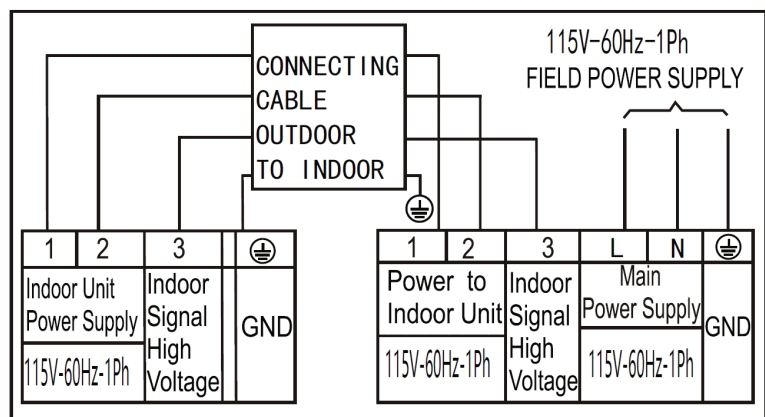
Connect Signal & Power Cables:

The signal cable enables communication between the indoor and outdoor units. You must first choose the right cable size before preparing it for connection.

NOTE: Choose the cable type according to local electrical codes and regulations. Please choose the right cable size according to the Minimum Circuit Ampacity located on the nameplate of the unit.

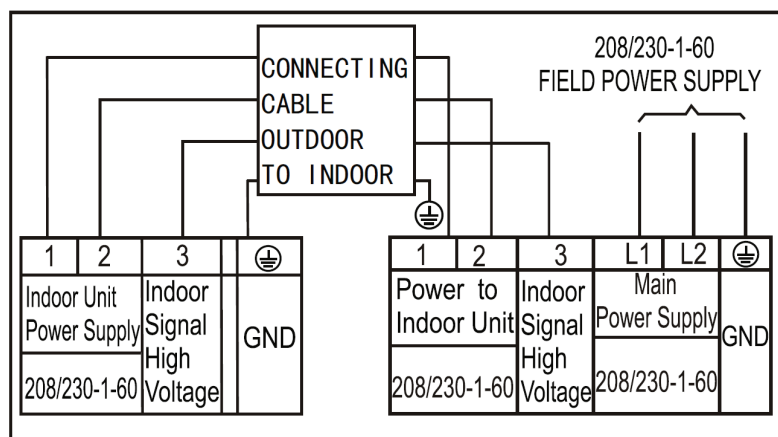
DO NOT MIX LIVE AND NULL WIRES

This is dangerous, and can cause the unit to malfunction.



Connection Diagram (115V)

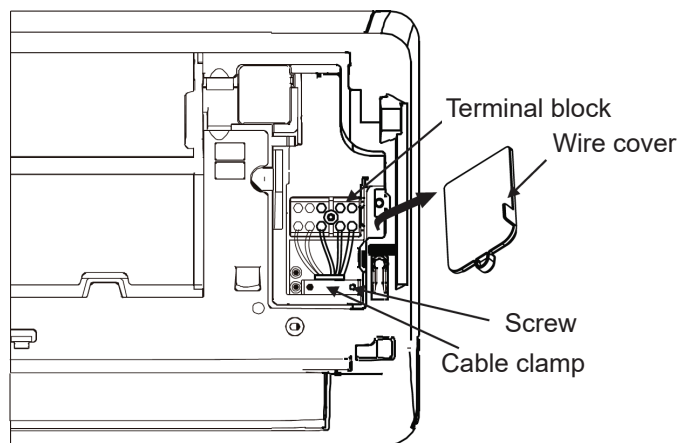
Electrical Wiring cont.



Connection Diagram (208/230V)

- 1) Open the front panel of the indoor unit.
- 2) Using a screwdriver, open the wire box cover on the right side of the unit. This will reveal the terminal block.
- 3) Facing the back of the unit, remove the large plastic knock-out panel to create a slot through which the conduit tube can be installed.

NOTE: For units with five-core cable, remove the small, middle plastic knock-out panel to create a slot through which the cable can exit. Use needle-nose pliers if the plastic panel is too difficult to remove by hand.



DO NOT MIX LIVE AND NULL WIRES

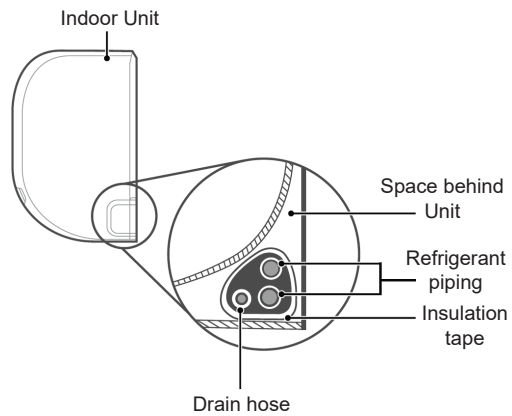
This is dangerous, and can cause the unit to malfunction.

Wrap Piping & Cables

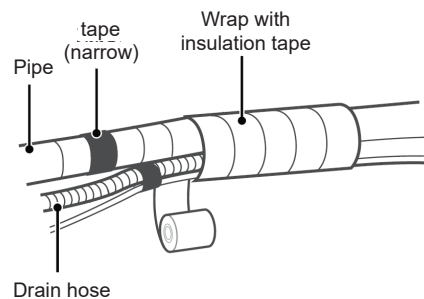
NOTE: Before passing the piping and drain hose through the wall hole, you must bundle them together to save space, protect them, and insulate them.

NOTE: Ensure that the communications wire is wrapped in conduit at the time of installation.

- 1) Bundle the drain hose and refrigerant pipes as shown to the right.



- 2) Using adhesive tape, attach the drain hose to the underside of the refrigerant pipes.
- 3) Using insulation tape, wrap the refrigerant pipes and drain hose tightly together. Double-check that all items are bundled.



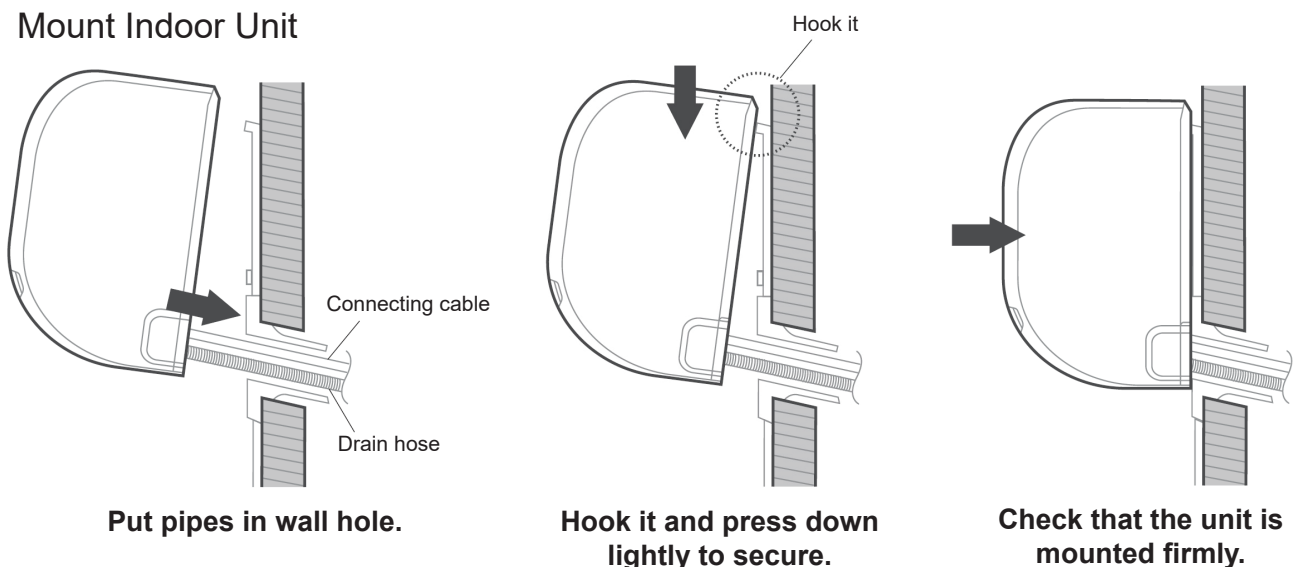
DRAIN HOSE MUST BE ON BOTTOM

Make sure the drain hose is at the bottom of the bundle. Putting the drain hose at the top of the bundle can cause the drain pan to overflow, which can lead to fire or water damage.

DO NOT WRAP ENDS OF PIPING

When wrapping the bundle, keep the ends of the piping unwrapped. You need to access them to test for leaks at the end of the installation process.

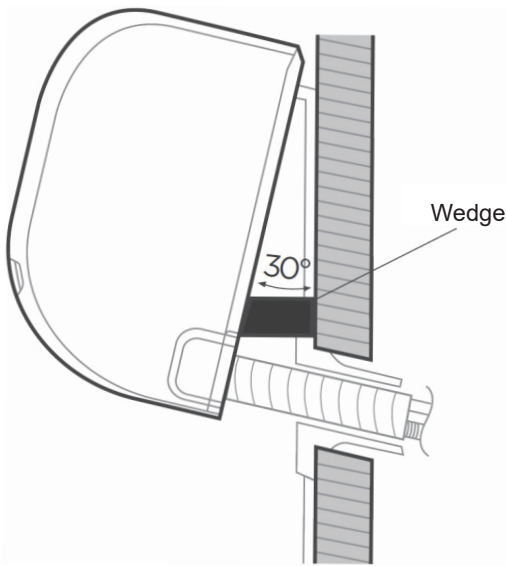
Mount Indoor Unit



If you installed new connective piping to the outdoor unit, do the following:

- 1) Double-check that the ends of the refrigerant pipes are sealed to prevent dirt or foreign materials from entering the pipes.
- 2) Slowly pass the wrapped bundle of refrigerant pipes, drain hose, and signal wire through the hole in the wall.
- 3) Hook the top of the indoor unit on the upper hook of the mounting plate.
- 4) Check that the unit is hooked firmly on the mounting plate by applying slight pressure to the left and right-hand sides of the unit. The unit should not jiggle or shift.
- 5) Using even pressure, push down on the bottom half of the unit. Keep pushing down until the unit snaps onto the hooks along the bottom of the mounting plate.
- 6) Again, check that the unit is firmly mounted by applying slight pressure to the left and the right-hand sides of the unit.

If the refrigerant piping is already embedded in the wall, do the following:



1. Hook the top of the indoor unit on the upper hook of the mounting plate.
2. Use a bracket or wedge to prop up the unit, giving you enough room to connect the refrigerant piping, signal cable, and drain hose.
3. Connect drain hose and refrigerant piping. (Refer to the refrigerant piping connection section of this manual for instructions.)
4. Keep pipe connection point exposed to perform the leak test. (Refer to the Electrical Checks and Leak Checks sections of this manual.)
5. After the leak test, wrap the connection point with insulation tape.
6. Remove the bracket or wedge that is propping up the unit.
7. Using even pressure, push down on the bottom half of the unit. Keep pushing down until the unit snaps onto the hooks along the bottom of the mounting plate.

NOTE: UNIT IS ADJUSTABLE

Keep in mind that the hooks on the mounting plate are smaller than the holes on the back of the unit. If you find that you don't have ample room to connect embedded pipes to the indoor unit, the unit can be adjusted left or right by approximately 1.18-1.96in (30-50mm), depending on the model.



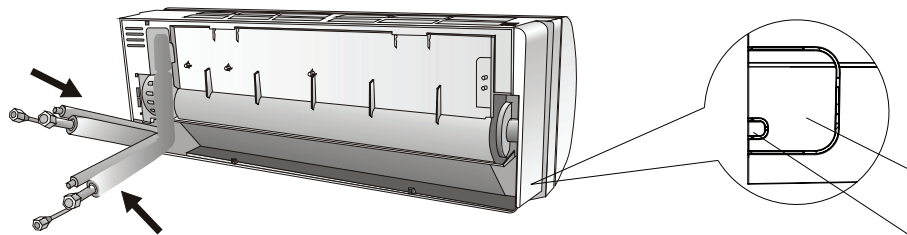
Move to left or right

Step 4 Cont. - Professional Use Only

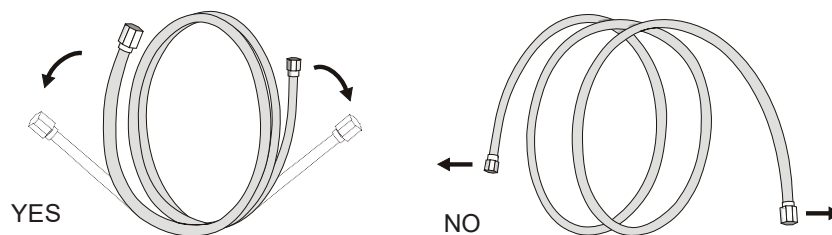
Connecting Copper Line Set

- 1) According to the wall hole position, select the appropriate piping mode. There are three optional piping modes for indoor units, as shown in the figure below. In Piping Mode 1, a notch should be made using scissors to cut the plastic sheet of piping outlet and cable outlet on the corresponding side of the indoor unit.

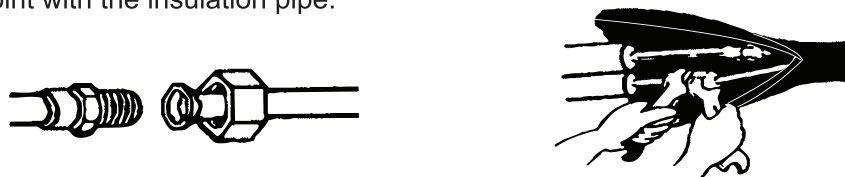
Note: When cutting off the plastic sheet at the outlet, the cut should be trimmed to smooth.



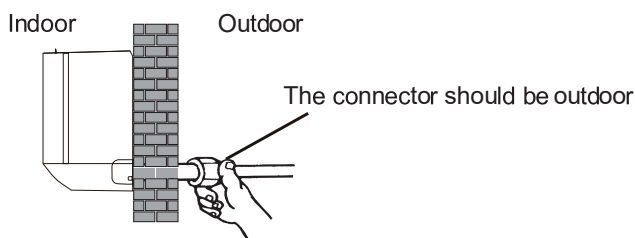
- 2) Bend the connecting pipes with the port facing up as shown in the figure below.



- 3) Take off the plastic cover in the pipe ports and take off the protective cover on the end of piping connectors.
- 4) Check whether any debris is on the port of the connecting pipe and make sure the port is clean.
- 5) After aligning the center; rotate the nut of the connecting pipe and tighten as tightly as possible by hand.
- 6) Use a torque wrench to tighten it according to the torque values in the torque requirements table.
(Refer to the torque requirements table on section Instruction for Servicing)
- 7) Wrap the joint with the insulation pipe.



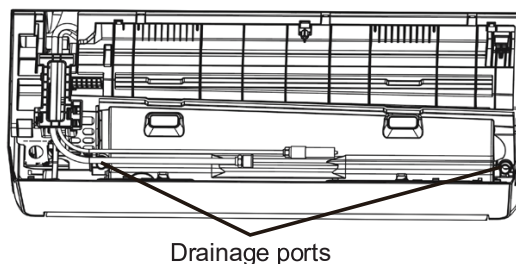
Note: For R32 refrigerant, the connectors should be placed outdoor.



Step 5: Connect Drainage Hose

1) Adjust the drainage hose (if applicable)

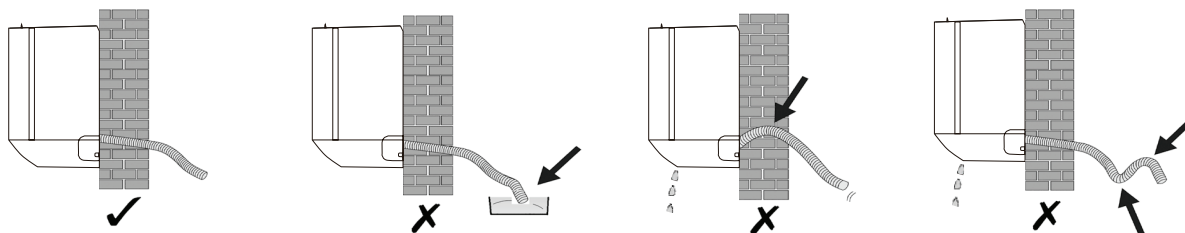
In some model, both sides of the indoor unit are provided with drainage ports. You can choose one of them to attach the drainage hose, and block the unused drain port with the rubber attached in one of the ports.



2) Connect the drainage hose to the drainage port. Ensure the joint is firm and the sealing effect is good.

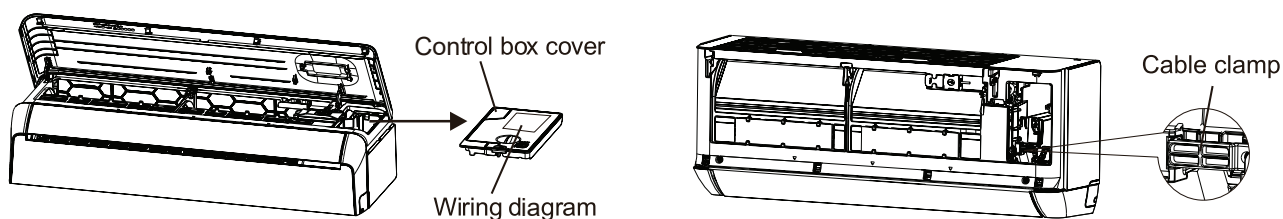
3) Wrap the joint firmly with teflon tape to ensure no leaks.

Note: Make sure there are no twists or dents. The pipes should be placed obliquely downward to avoid blockage and ensure proper drainage.



Step 6: Connect Wiring

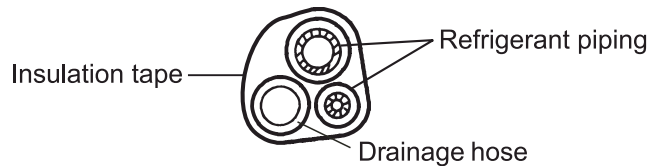
- 1) Choose the right cables size determined by the maximum operating current on the nameplate.
(Check the cables size referenced in section INSTALLATION PRECAUTIONS)
- 2) Open the front panel of indoor unit.
- 3) Use a screwdriver to open the electric control box cover and reveal the terminal block.
- 4) Unscrew the cable clamp.
- 5) Insert one end of the cable into control box from the back right end of the indoor unit,
- 6) Connect the wires to the corresponding terminal according to the wiring diagram on the electric control box cover. Make sure that they are well connected.
- 7) Screw the cable clamp to fasten the cables.
- 8) Reinstall the electric control box cover and front panel.



Step 7: Wrap Piping and Cable

Install connecting wires and drainage hose after the refrigerant pipes in order to save space, protect, and insulate them. Bundle with insulating tape before passing them through the wall hole.

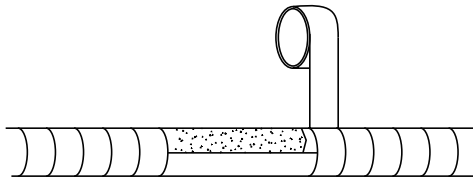
- 1) Arrange the pipes, cables, and drainage hose according to the following picture.



Note: (I) Make sure the drainage hose is at the bottom.

(II) Avoid crossing and bending parts.

- 2) Using the insulating tape, wrap the refrigerant pipes, connecting wires, and drainage hose together tightly.



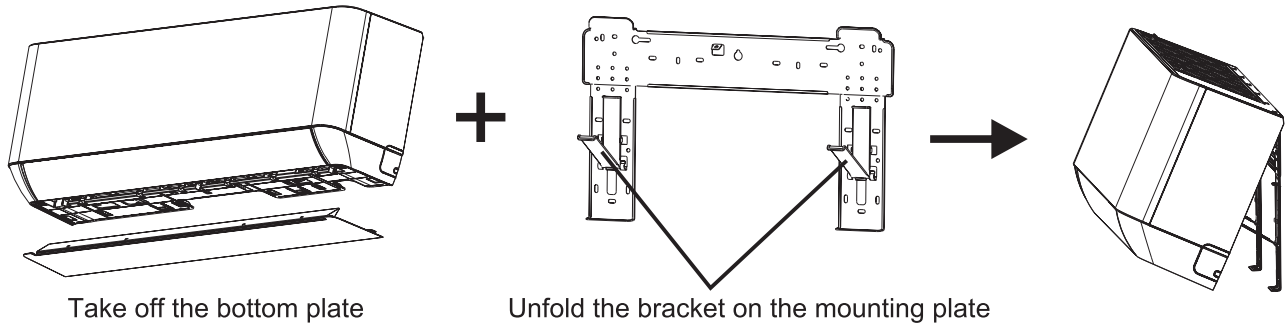
Step 8: Mount Indoor Unit

1. Slowly pass the wrapped refrigerant pipes, connecting wires, and drainage hose bundle through the wall hole.
2. Hook the top of indoor unit on the mounting plate.
3. Apply slight pressure to the left and right sides of the indoor unit. Make sure the indoor unit is hooked firmly.
4. Push down the bottom of the indoor unit to secure the snaps onto the hooks of the mounting plate, and make sure it is hooked firmly.

If the refrigerant pipes were already embedded in the wall, or if you want to connect the pipes and wires on the wall, do as below:

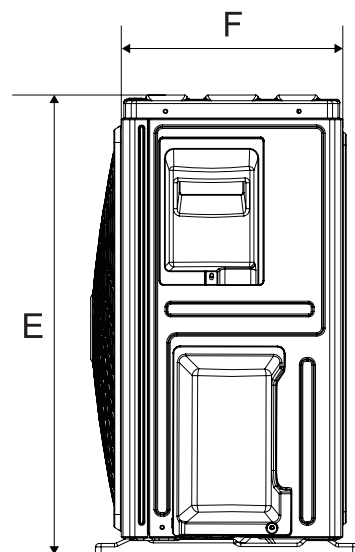
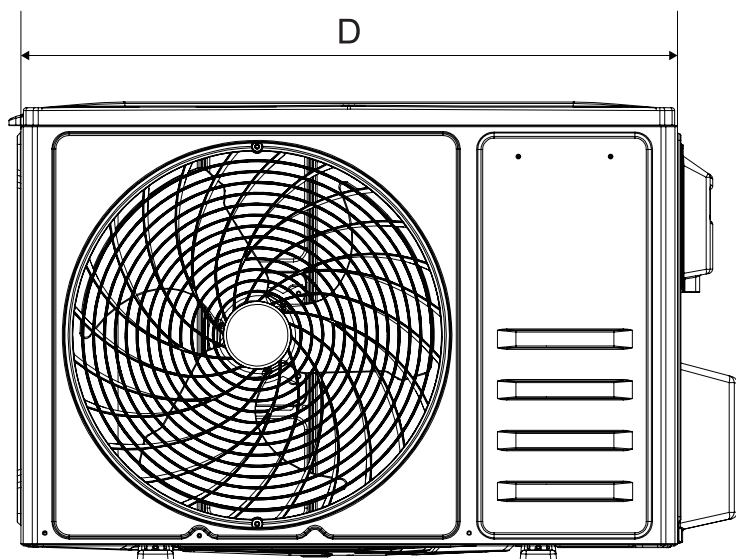
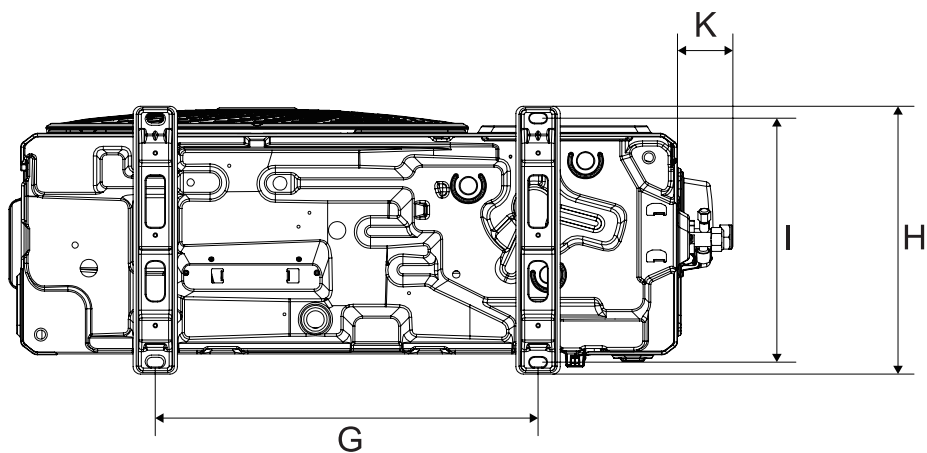
- 1) Grab both ends of the bottom plate and apply a little outward force to take off the bottom plate.
- 2) Hook the top of the indoor unit on the mounting plate without piping and wiring.
- 3) Lift the indoor unit opposite the wall, unfold the bracket on the mounting plate, and use this bracket to prop up the indoor unit. There will be a big space for operation.

- 4) Wrap the refrigerant piping, wiring, connect drainage hose according to Steps 4 and 7.
- 5) Replace the bracket of mounting plate.
- 6) Push down the bottom of the indoor unit to secure the snaps onto the bottom hooks of the mounting plate, and make sure it is hooked firmly.
- 7) Replace the bottom plate of the indoor unit.



Outdoor Unit Installation

Split type outdoor unit

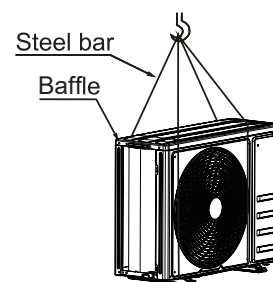


Unit: mm

Model	Outdoor unit						
	D	E	F	G	H	I	K
9K(660D)	716	499	240	415	290	265	60
9K(728C)	728	554	253	434	305	285	60
12K(728D)	728	551	253	434	305	278	60
18K(845D)	843	700	330	586	375	348	48
24K(910C)	904	804	353	607	421	390	60

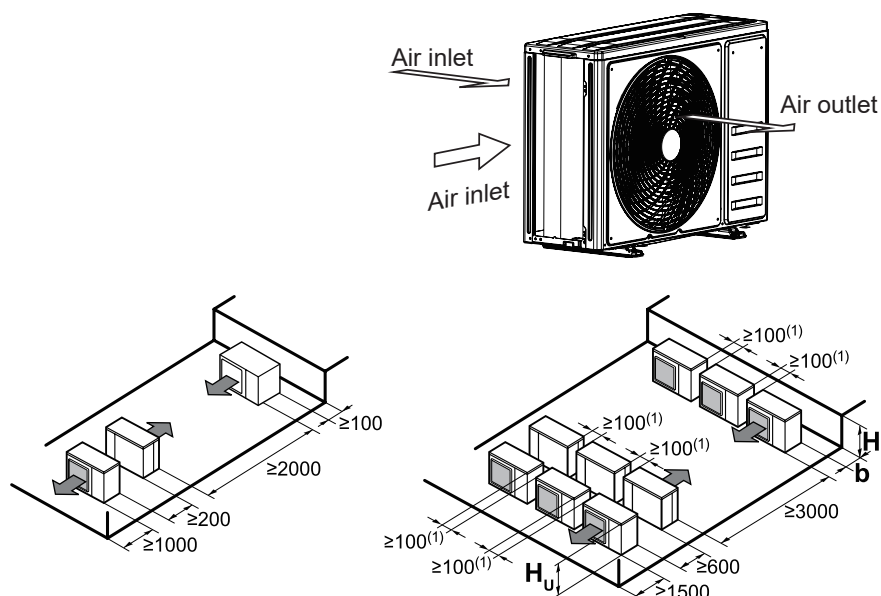
Move outdoor unit (Mainly for high-rise applications and large/heavy models)

1. Use 4 pieces of 6mm steel wire to lift the outdoor unit and move it to the desired location.
2. To prevent the outdoor unit from being damaged, add baffles on the surface of the outdoor unit where the steel wires will come into contact.
3. After moving, remove the wooden tray from the bottom.



INSTALLATION SPACE

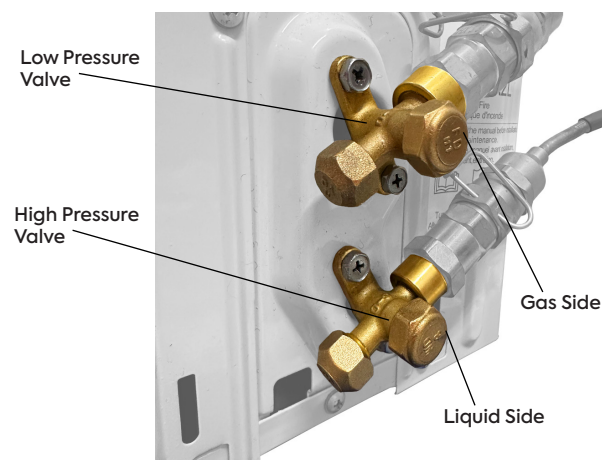
1. After leaving repair space as illustrated below, install the outdoor unit with power supply equipment installed at the side. Refer to ELECTRIC SUPPLY INSTALLATION MANUAL for the installation method.
2. Make sure there is necessary space for installation and repair.



H_B H_U	b (mm)
$H_B \leq \frac{1}{2}H_U$	$b \geq 250$
$\frac{1}{2}H_U < H_B \leq H_U$	$b \geq 300$
$H_B > H_U$	/

Refrigerant pipes

1. The junction is inside the ocover of the right panel.
Remove the cover first.
2. Route the pipe through the side gap of the cover.
3. After connecting via the valve opening, reinstall the cover from the left, right, or back.
4. The image on the right is of the outdoor unit's valve installation panel. The gas side (low pressure side) is oriented upward, and the liquid side (high pressure side) is oriented downward.



INSTALLATION

Pre-installation precautions

- Confirm that the installation personnel are qualified for relevant installation work. If the air conditioner is installed by persons without special skills, normal operations will not be ensured, and personal and property safety may be affected.

User guideline

- The user's installation site should have a regular power supply conforming to that indicated on the air conditioner's nameplate. Its voltage should be within the range of 90% - 110% of the rated voltage value.
- The power circuit should be equipped with a protective device, such as a leakage protector or an air switch, which should have a capacity greater than 1.5 times the maximum current value of the air conditioner.
- Please use the fuse or circuit breaker prescribed in the INSTALLATION INSTRUCTIONS.
- Only a qualified electrician is allowed to carry out wiring tasks strictly according to electrical safety requirements.
- Ensure proper grounding of the air conditioner; in other words, the main power switch of the air conditioner must be connected to a reliable ground wire.

Precautions

- The air conditioner should be installed securely; otherwise, poor installation may lead to abnormal noise and vibration.
- Outdoor unit should be installed at a spot ensuring that air outlet noises and hot exhaust will not disturb your neighbors.

Unit body installation

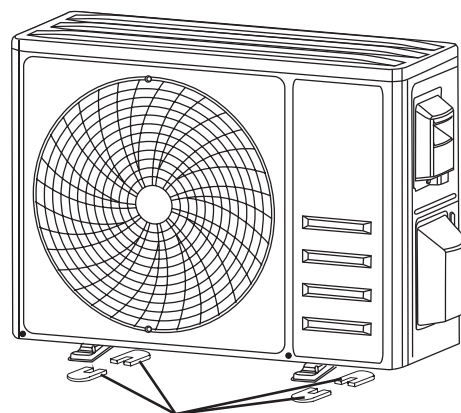
1. Mark the installation position for expansion bolts according to the outdoor unit's installation dimensions.
2. Drill bolt holes, clear the holes of debris, and insert the expansion bolts.
3. If applicable, install 4 rubber pads on the installation holes before placing the outdoor unit (Optional). Doing so will reduce vibrations and noise.
4. Place the outdoor unit onto the bolts and pre-drilled holes.
5. Use a wrench to firmly secure the outdoor unit with the bolts.

Note:

The outdoor unit can be fixed on a wall-mounting bracket.

Follow the wall-mounting bracket's instructions to attach the bracket to the wall. Then, fasten the outdoor unit to the bracket and ensure it is level.

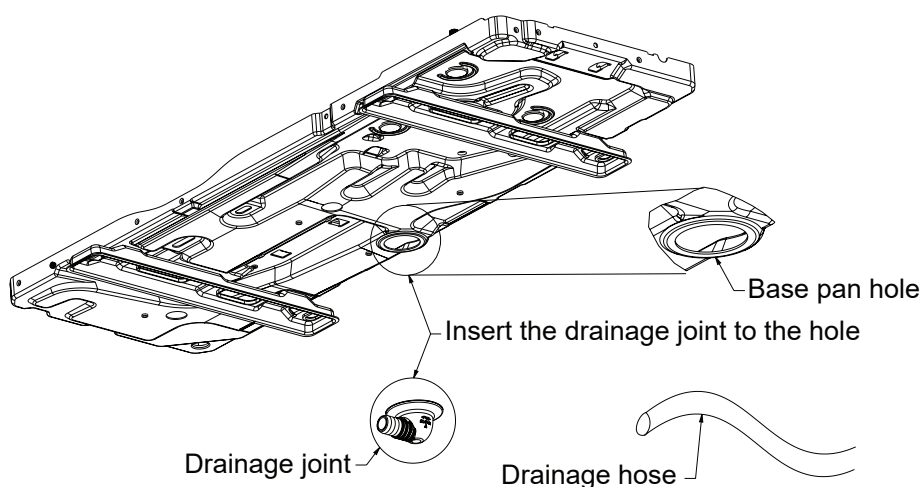
The wall-mounting bracket must support at least 4 times the weight of the outdoor unit.



Install 4 rubber blankets (Optional)

Install Drainage Hose

1. This step is only for heat pump modles or reverse cooling air conditioners (RCACs).
2. Insert the drainage joint to the hole at the bottom of the outdoor unit.
3. Connect the drainage hose to the joint and connect securely.

**NOTE:**

Before bolting the outdoor unit in place, you must install the drain joint at the bottom of the unit. For units with a bas pan built it-in (with multiple holes for proper draining during defrost), the drain joint does not need to be installed.

In cold climates, ensure the drain hose is as vertical as possible to ensure swift water drainage. If water drains too slowly it can freeze in the hose and flood the unit.

Refrigerant Pipes Installation

Pipe dimension and ways of installation

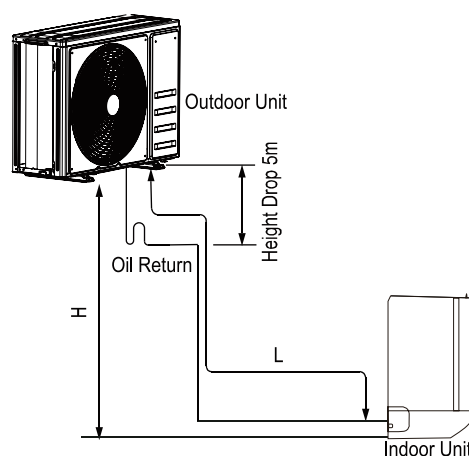
Outdoor pipe dimension and ways of installation (in sequence of cooling capacity)

Pipe Material		Copper Pipe for Air Conditioner	
Model		9~18K	24K
Size(mm)	Liquid side	Φ6.35 (1/4inch)	Φ6.35 (1/4inch)
	Gas side	Φ9.52(3/8inch)	Φ12.7(1/2inch)

Conventional pipe		9/12K	18/24K
Maximum pipe length (liquid side) L		50ft/15m	65ft/20m
Maximum Height drop	Height drop between indoor and outdoor unit H	30ft/10m	50ft/15m

Please refer to refrigerant pipe connection for detail

Allowed length and height drop



Remove objects and water

- Use high-pressure nitrogen to clean the pipe instead of using outdoor refrigerant for this cleaning process.
- Before installing the refrigerant pipe, please clean the pipe to prevent foreign objects from being inside.

Additional refrigerant charge

PER MANUFACTURER RECOMMENDATION:

IF THIS EQUIPMENT IS NOT BEING INSTALLED USING MRCOOL® DIY® QUICK CONNECT PRE-CHARGED LINE SETS, INSTALLING TECHNICIAN MUST ADD .16 OUNCES PER FOOT OF R32 REFRIGERANT IN 1/4" 3/8" SIZED LINE SET AND .16 OUNCES PER FOOT OF R32 REFRIGERANT IN 1/4" 1/2" SIZED LINE SET.

Line Set Connector Size	Ounces per Foot of R32 Refrigerant
1/4" 3/8"	.16 oz per ft
1/4" 1/2"	.16 oz per ft

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 refer to the step 4 on section Indoor Unit Installation.
- ① + ② the total refrigerant charge on the refrigerant charge label supplied with the product.

Affix the refrigerant charge label near the manufacturer's label after filling it out.

R32

① = kg | lb 1

② = kg | lb 2

① + ② = kg | lb 3

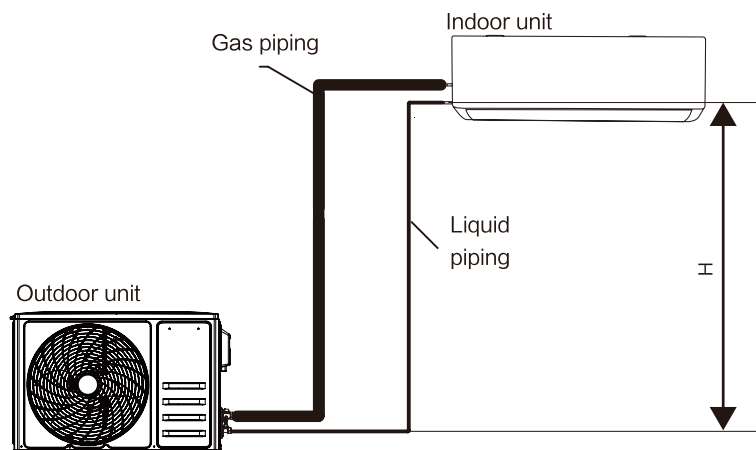
5 4

1. Factory refrigerant charge of the product: see unit manufacturer's label.
2. Additional refrigerant amount charged in the field.
3. Total refrigerant charge.
4. Outdoor unit.
5. Refrigerant cylinder and manifold for charging.

Non-return bend and oil return bend

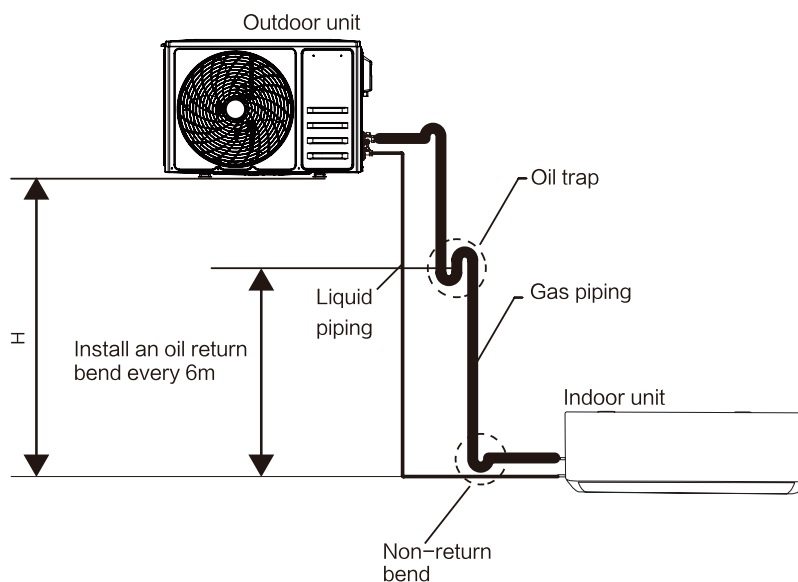
- 1) Outdoor unit is beneath the indoor unit.

There's no need to add non-return bend at the lowest or highest position of the vertical pipe, as shown below:

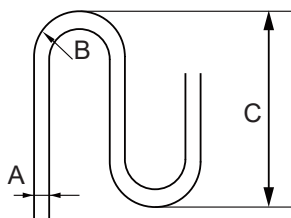


2) Outdoor unit is above the indoor unit.

It's necessary to add oil return bend and non-return bend at the lowest and highest position of the vertical pipe, as shown below:



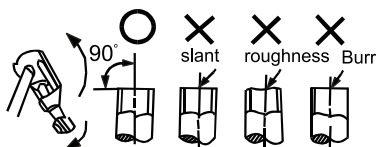
Dimensions for the making of oil return bend are as follows:



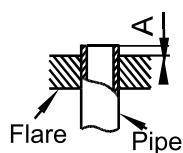
A(inch)	B(mm)	C(mm)
$\Phi 3/8$	≥ 20	≤ 150
$\Phi 1/2$	≥ 26	≤ 150
$\Phi 5/8$	≥ 33	≤ 150

FLARING

1. Cut the refrigerant pipe off with a pipe cutter.



2. Flare the pipe after putting it into the connection nut.



Outside Diameter	A(mm)	
	MAX	MIN
$\Phi 1/4"$	8.7	8.3
$\Phi 3/8"$	12.4	12.0
$\Phi 1/2"$	15.8	15.4
$\Phi 5/8"$	19.0	18.6
$\Phi 3/4"$	23.3	22.9

Stop valve operation item

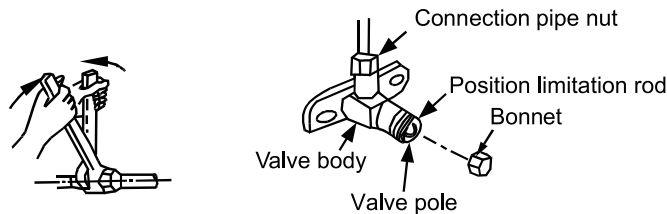
- Open the valve rod until it reaches the stop position. Do not attempt to open it further.
- Fasten the valve bonnet with a spanner or other similar tools.
- Ensure the valve rod bonnet is securely fastened.

Junction Fixture

Aim at the connection pipe, fix the nut of the connection pipe, and then tighten it with a spanner as shown in the following diagram.

⚠ Notice

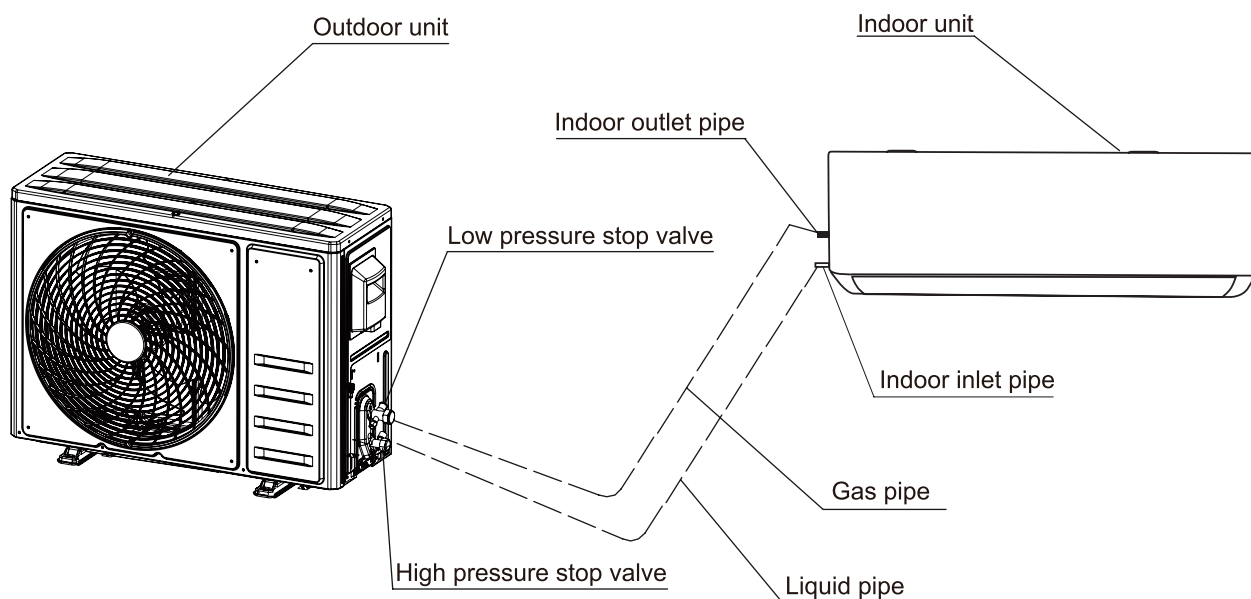
According to the installation conditions, an excessively large tightening torque will damage the nut.



Pipe Size	Newton meter(N x m)	Pound-force foot(lbf-ft)	Kilogram-force meter(kgf-m)
1/4" (φ6.35)	15-20	11.1-14.8	1.5-2.0
3/8"(φ9.52)	31-35	22.9-25.8	3.2-3.6
1/2"(φ12)	45-50	33.2-36.9	4.6-5.1
5/8"(φ15.88)	60-65	44.3-48.0	6.1-6.6

⚠ Note: This table is only for reference. The installation must meet the requirements of local laws and regulations.

- The following figure only shows the assembly relationship of the indoor unit, outdoor unit, and refrigerant pipes.
- Please refer to the following figures to install.



NOTE

- The throttle subassembly has been installed in the outdoor unit.
- Use two spanners to connect the pipe with indoor/outdoor pipes to avoid the copper pipe cracking.
- Pay attention to the connection orientation when connecting.

Joints shall be tested with detection equipment with a capability of 5g/year of refrigerant or better, with the equipment in standstill and under operation or under a pressure of at least these standstill or operation conditions.

Electric Wiring

CAUTION:

Before servicing, all power supplies must be disconnected, locked out, and verified de-energized.

Failure to isolate electrical power may result in electric shock or death.

- Be sure to install current leakage protection switch.
- Failure to install current leakage protection will result in electric shock, fire, serious injury, or death.
- The appliance must be positioned so that the power terminal is accessible.
- This appliance shall be installed in accordance with all applicable national, state, provincial, and local wiring regulations.

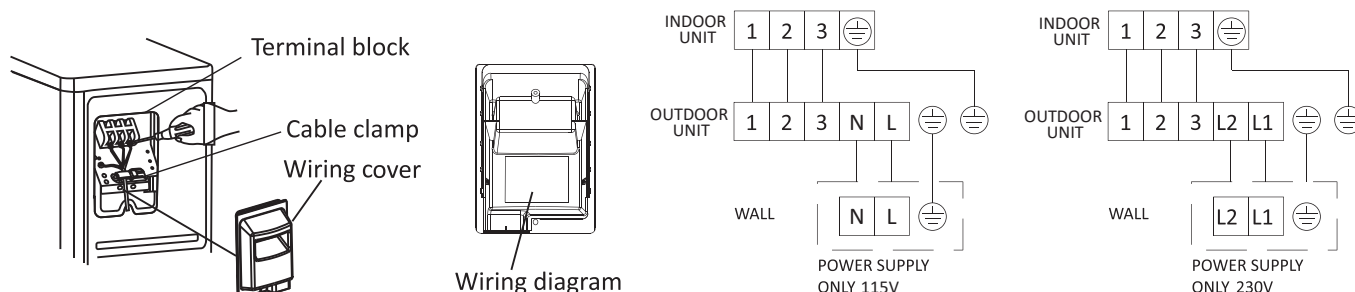
1. Power cord is to be selected according to national regulations.
2. Outdoor unit power cord should be selected and connected according to the outdoor unit installation manual.
3. Wiring should be away from high temperature compents, or the insulation layer of the wires may melt.
4. Use wire clamp to fix the wires and terminal block after connection.
5. Control wire should be wrapped together with heat insulated refrigerant pipes.
6. Connect the indoor unit to power only after the refrigerant has been vacuumed.
7. Don't connect the power wire to the signal wire connection end.

Install Wiring

1. Use a phillips screwdriver to unscrew wiring cover. Grasp and press it down gently to take it down.
2. Unscrew the cable clamp and take it down.

3. According to the wiring diagram inside the wiring cover, connect the connecting wires to the corresponding terminals, and ensure all connections are firm and secure.
4. Reinstall the cable clamp and wiring cover.

Note: When connecting the wires of indoor and outdoor units, the power should be cut off.



Dedicated Distribution Device and Wire for Air Conditioner

Wiring material ampacities	AWG
4	22
7	20
10	18
13	16
18	14
25	12
30	10
40	8
55	6
70	4

⚠ Note: This table is only for reference. The installation must meet the requirements of local laws and regulations. The suitable temperature for selecting wire gauge is $77^{\circ}\text{F}\pm 41^{\circ}\text{C}$ ($25^{\circ}\text{C}\pm 5^{\circ}\text{C}$)

Power Supply				
Model	Voltage	MCA	Breaker	Recommended power cord specifications
9K	115V	16	25	14AWG
9K	208-230V	10	15	14AWG
12K	115V	17	25	14AWG
12K	208-230V	11	15	14AWG
18K	208-230V	17	25	14AWG
24K	208-230V	19	30	14AWG

This air conditioner does not include a power cord. A licensed electrician should be consulted to select and install the appropriate power cord based on the model and local voltage requirements.

Test Operation

Inspections Before Test Run

Do the following checks before test run.

Description	Inspection method
Electrical Safety Inspection	• Check whether the power supply voltage complies with specification. • Check whether there are any wrong or missing connection, between the power lines, signal lines, and earth wires. • Check whether the earth resistance and insulation resistance comply with requirements.
Installation Safety Inspection	• Confirm the direction and smoothness of drainage pipe. • Confirm that the joint of refrigerant pipe is installed completely. • Confirm the safety of outdoor unit, mounting plate, and indoor unit installation. • Confirm that the valves are fully open. • Confirm that there are no foreign objects or tools left inside the unit. • Complete installation of indoor unit air inlet grille and panel.
Refrigerant Leakage Detection	• Check the piping joint, the connector of the two valves of the outdoor unit, the valve spool, the welding port, etc., where leakage may occur. • Foam detection method: Apply soapy water or foam evenly on the parts where leakage may occur and observe whether bubbles appear or not. If not, it indicates that the leakage detection result is safe. • Leak detector method: Use a professional leak detector and read the instruction of operation. Detect at the position where leakage may occur. • The duration of leak detection for each position should last for 3 minutes or more. If the test result shows that there is leakage, the nut should be tightened and tested again until there is no leakage; After the leak detection is completed, wrap the exposed pipe connector of indoor unit with thermal insulation material and wrap with insulation tape.

Test Run Instruction

1. Turn on the power supply.
2. Press the ON/OFF button on the remote controller to turn on the air conditioner.
3. Press the Mode button to switch the mode COOLING and HEATING.

In each mode set as below:

- COOLING Set the lowest temperature
 - HEATING Set the highest temperature
4. Run about 8 minutes in each mode and check all functions are properly run and respond to the remote controller. Functions check as recommended:
 - 1) If the outlet air temperature responds to the cooling and heating modes
 - 2) If the water drains properly from the drainage hose
 - 3) If the Louver and deflectors (optional) rotate properly
 5. Observe the test run state of the air conditioner at least 30 minutes.
 6. After the successful test run, return the normal setting and press ON/OFF button on the remote controller to turn off the unit.
 7. Inform the user to read this manual carefully before use, and demonstrate to the user how to use the air conditioner, the necessary knowledge for service and maintenance, and the reminder for storage of accessories.

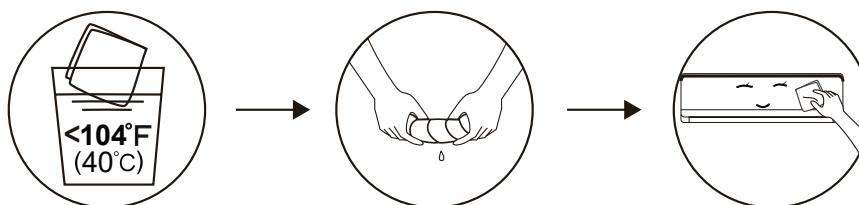
Note: If ambient temperature exceeds the range mentioned in the section INSTRUCTION FOR SERVICING, and it can not run COOLING or HEATING mode, lift the front panel and refer to the emergency button operation to run the COOLING and HEATING mode.

Maintenance



- When cleaning, you must shut down the machine and cut off the power supply for more than 5 minutes.
- Under no circumstances should the air conditioner be flushed with water.
- Volatile liquid (e.g. thinner or gasoline) will damage the air conditioner, so only use a soft dry cloth or wet cloth dipped with neutral detergent to clean the air conditioner.
- Clean the filter screen regularly to avoid dust covering, which will affect the filter screen efficiency. When the operating environment is dusty, the cleaning frequency should be increased appropriately.
- After removing the filter screen, do not touch the fins of the indoor unit to avoid scratching.

Clean the Unit

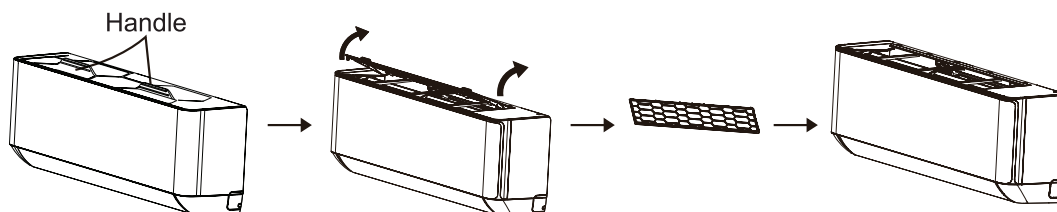


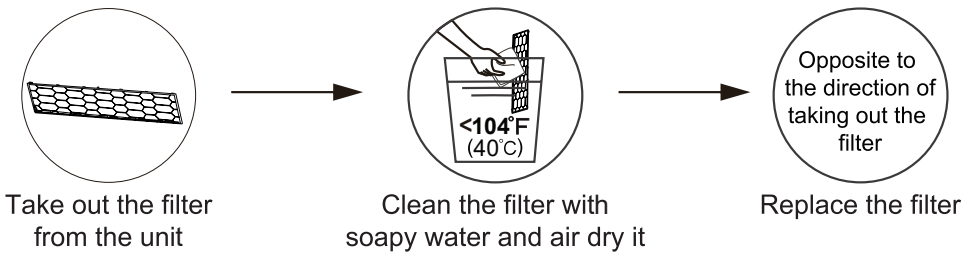
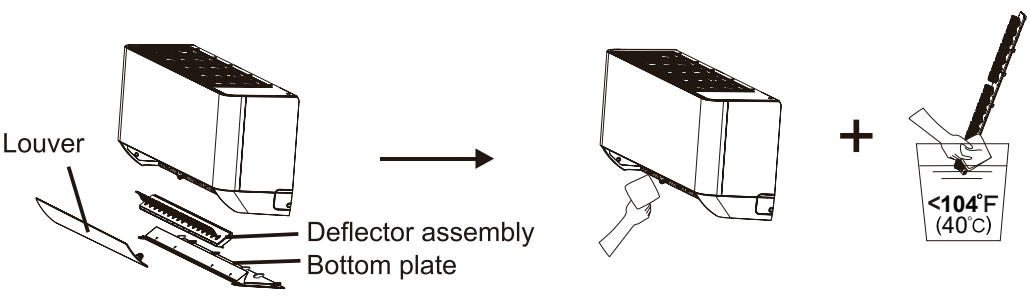
Wring it dry and gently wipe the surface of the unit

Tip: Wipe frequently to keep air conditioner clean and in good appearance.

Disassembly and Assembly of Filter

- Grasp the raised handle on the filter by hand, and then pull the filter out in the direction deviating from the unit, so that the upper edge of the filter is separated from the unit. The filter can be removed by lifting it upwards.
- When installing the filter, first insert the lower end of the filter screen into the corresponding position of the unit, and then squeeze the upper end of the filter into the corresponding buckling position of the unit body.



Clean the Filter	 Take out the filter from the unit Clean the filter with soapy water and air dry it Replace the filter Opposite to the direction of taking out the filter Tip: When you find accumulated dust in the filter, clean the filter quickly to ensure the clean, healthy, and efficient operation inside the air conditioner.
Cleaning of Inner Air Duct	• First, loosen the knob on the middle of louver and bend the louver outwards to take it out. • Then, grasp both sides of bottom plate push downwards to take down the bottom plate. • Finally, loosen the buckle of deflector assembly with your thumb and take it out. • Wipe the air duct and fan assembly with a clean and wrung wet rag. • Clean the removed parts with soapy water and air dry them. • After cleaning, restore the removed parts in turn.  Louver Deflector assembly Bottom plate <104°F (40°C)
Service and Maintenance	• When the air conditioner is not in use for a long time, do the following: Take out the batteries of the remote controller and disconnect the power supply of the air conditioner. • When using after long-term shutdown: 1. Clean the unit and filter screen. 2. Check whether there are obstacles at the air inlet and outlet of indoor and outdoor units. 3. Check whether the drain pipe is unobstructed. 4. Install the batteries of the remote controller and check whether the power is on.

Troubleshooting

MALFUNCTION	POSSIBLE CAUSES
The appliance does not operate	Wrong wiring connection
	Power failure/power terminal pulled out.
	Damaged indoor/outdoor unit fan motor.
	Faulty compressor thermomagnetic circuit breaker.
	Faulty protective device or fuses.
	Loose connections or power terminal pulled out.
	It sometimes stops operating to protect the appliance.
	Voltage higher or lower than the voltage range.
	Active TIMER-ON function.
	Damaged electronic control board.
Strange odor	Dirty air filter.
Noise of running water	Back flow of liquid in the refrigerant circulation.
A fine mist comes from the air outlet	This occurs when the air in the room becomes very cold, for example in the "COOLING" or "DEHUMIDIFYING/DRY" modes.
A strange noise can be heard	This noise is made by the expansion or contraction of the front panel due to variations in temperature and does not indicate a problem.
Insufficient airflow, either hot or cold	Unsuitable temperature setting.
	Obstructed air conditioner intakes and outlets.
	Dirty air filter.
	Fan speed set at minimum.
	Other sources of heat in the room.
	No refrigerant.
The appliance does not respond to commands	Remote control is not close enough to indoor unit.
	The batteries of remote control need to be replaced.
	Obstacles between remote control and signal receiver in indoor unit.
The display is off	Activate DISPLAY function.
	Power failure.
Switch off the air conditioner immediately and cut off the power supply in the event of:	Strange noises during operation.
	Faulty electronic control board.
	Faulty fuses or switches.
	Spraying water or objects inside the appliance.
	Overheated cables.
	Very strong smells coming from the appliance.

Display Code

Display	Description of the code
0-9A	Number + A indicates current limit in Generator Mode (e.g., 3A means the unit is limited to 3A)
C8	Forced defrosting function (Heat pump)
CL	Filter cleaning reminder / Dust full reminder

Note:

- The designation "0-9A" does not indicate an error code. It indicates that the GEN function has been activated.
- Code "C8" is not an error, but indicates active defrost function. It will resume automatically when defrosting finished.
- The designation "CL" does not indicate an error code; rather, it signifies that the indoor dust filter requires cleaning. To reset the alarm, please disconnect the power supply for 30 seconds before restoring it.

For Wi-Fi models only:

- Display "PP": Indicates that the WI-FI module is attempting to connect to the router.
- Display "SA": Indicates that the WI-FI module can connect through the router.
- Display "AP": Indicates that the WI-FI module can connect through the internet.

Error Code

Display	Description of the code	Troubleshooting Method
Hd	Refrigerant leakage sensor protection	When this code appears, open windows for ventilation, prevent the generation of open flames, then leave the room where the product is located immediately and contact after-sales service for handling.
Fd	Refrigerant sensor fault	
F4	Refrigerant cycle abnormality protection	

Disposal Guideline

The manufacturer is not liable for malfunction, damage, or injury caused by abnormal environmental conditions, including but not limited to flooding, lightning, power surges, earthquakes, corrosive atmospheres, or unstable power supply.

- 1) For minimim installation height and minimim room area (operating or storage), refer to installation manual.
- 2) Risk of fire-auxiliart devices which may be ignition sources must not be installed in the ductwork, other than auxiliary devices listed for use with the specific appliance. See instructions.
- 3) Mount with the lowest moving parts at least 8.2ft (2.5m) above floor or grade level.
- 4) Risk of electric shock. Can cause injury or death. Disconnect all remote electric power supplies before servicing.
- 5) Risk of fire due to flammable refrigerant used. Follow handling instructions carefully in compliance with all applicable federal, state, and local regulations.
- 6) Risk of fire due to flammable refrigerant used. Consult repair manual/owner's guide before attempting to service this product. All safety precautions must be followed.
- 7) Risk of fire due to flammable refrigerant used. To be repaired only by trained service personnel. Do not puncture refrigerant tubing.
- 8) Risk of fire. This appliance contains flammable refrigerant and electronic components that must be disposed of in accordance with all applicable federal, state, and local regulations. Improper disposal may result in environmental harm, fire risk, and legal penalties.



NOTES:

NOTES:

TRUINVERTER MINI SPLIT HEAT PUMP

Scan here to download warranty or go to warrantyzonepro.com



*The design and specifications of this product and/or manual are subject to change without prior notice.
Consult with the manufacturer for details.*