

Installation Instructions



Fig. 1 — Sizes 06K - 18K

NOTE: Read the entire instruction manual before starting the installation. Images are for illustration purposes only. Actual models may differ slightly.

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SAFETY CONSIDERATIONS

Installing, starting up, and servicing air- conditioning equipment can be hazardous due to system pressures, electrical components, and equipment location (roofs, elevated structures, etc.).

Only trained, qualified installers and service mechanics should install, start- up, and service this equipment.

Untrained personnel can perform basic maintenance functions such as coil cleaning. All other operations should be performed by trained service personnel only.

When working on the equipment, observe the precautions in the literature and on tags, stickers, and labels attached to the equipment.

Follow all safety codes. Wear safety glasses and work gloves. Keep a quenching cloth and a fire extinguisher nearby when brazing. Use care in handling, rigging, and setting bulky equipment.

Read these instructions thoroughly and follow all warnings or cautions included in the literature and attached to the unit. Consult local building codes and National Electrical Code (NEC) for special requirements. Recognize safety information.

This is the safety - alert symbol [1]

When you see this symbol on the unit and in instructions or manuals, be alert to the potential for personal injury. Understand these signal words: **DANGER**, **WARNING**, and **CAUTION**. These words are used with the safety- alert symbol.

DANGER identifies the most serious hazards which will result in severe personal injury or death.

WARNING signifies hazards which could result in personal injury or death.

CAUTION is used to identify unsafe practices which may result in minor personal injury or product and property damage.

NOTE is used to highlight suggestions which will result in enhanced installation, reliability, or operation.

A WARNING

ELECTRICAL SHOCK HAZARD

Failure to follow this warning could result in personal injury or death.

Before installing, modifying, or servicing system, the main electrical disconnect switch must be in the **OFF** position. There may be more than 1 disconnect switch. Lock out and tag switch with a suitable warning label.

A WARNING



EXPLOSION HAZARD

Failure to follow this warning could result in death, serious personal injury, and/or property damage.

Never use air or gases containing oxygen for leak testing or operating refrigerant compressors. Pressurized mixtures of air or gases containing oxygen can lead to an explosion.

A CAUTION

EQUIPMENT DAMAGE HAZARD

Failure to follow this caution may result in equipment damage or improper operation.

Do not bury more than 36 in. (914 mm) of refrigerant pipe in the ground. If any section of pipe is buried, there must be a 6 in. (152 mm) vertical rise to the valve connections on the outdoor units. If more than the recommended length is buried, refrigerant may migrate to the cooler buried section during extended periods of system shutdown. This causes refrigerant slugging and could possibly damage the compressor at start-up.

A WARNING

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. Children should be supervised to ensure that they do not play with the appliance.

A WARNING

Only use the specified wire. If the wire is damaged, it must be replaced by the manufacturer, its service agent or similarly qualified persons in order to avoid a hazard. The product must be properly grounded at the time of installation, or electric shock may occur.

For all electrical work, follow all local and national wiring standards, regulations, and the Installation Manual. Connect the cables tightly, and clamp them securely to prevent external forces from damaging the terminal. Improper electrical connections can overheat and cause fire, and may also cause shock. All electrical connections must be made according to the Electrical Connection Diagram located on the panels of the indoor and outdoor units.

All wiring must be properly arranged to ensure that the control board cover can close properly. If the control board cover is not closed properly, it can lead to corrosion and cause the connection points on the terminal to heat up, catch fire, or cause electrical shock.

Disconnection must be incorporated in the fixed wiring in accordance with NEC, CSA and Local Codes. **Do not** share the electrical outlet with other appliances. Improper or insufficient power supply can cause fire or electric shock.

If connecting power to fixed wiring, an all-pole disconnection device which has at least 3mm clearances in all poles, and have a leakage current that may exceed 10mA, the residual current device (RCD) having a rated residual operating current not exceeding 30mA, and disconnection must be incorporated in the fixed wiring in accordance with NEC, CSA and Local Codes.

A WARNING

Turn off the air conditioner and disconnect the power before performing any installation or repairing. Failure to do so can cause electric shock.

Installation must be performed by an authorized dealer or specialist. Defective installation can cause water leakage, electrical shock, or fire. Installation must be performed according to the installation instructions.

Improper installation can cause water leakage, electrical shock, or fire. Contact an authorized service technician for repair or maintenance of this unit. This appliance shall be installed in accordance with national wiring regulations.

Only use the included accessories, parts, and specified parts for installation. Using non-standard parts can cause water leakage, electrical shock, fire, and can cause the unit to fail.

Install the unit in a firm location that can support the unit's weight. If the chosen location cannot support the unit's weight, or the installation is not done properly, the unit may drop and cause serious injury and damage. Install drainage piping according to the instructions in this manual. Improper drainage may cause water damage to your home and property. For units that have an auxiliary electric heater, do not install the unit within 3 feet (1 meter) of any combustible materials.

If combustible gas accumulates around the unit, it may cause fire.

Do not turn on the power until all work has been completed.

When moving or relocating the air conditioner, consult experienced service technicians for disconnection and re-installation of the unit.

Read the information for details in "indoor unit installation" and "outdoor unit installation" sections.

NOTE: 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, for example: T3.15AL/250VAC, T5AL/250VAC, T3.15A/250VAC, T5A/250VAC, T20A/250VAC, T30A/250VAC, etc.

NOTE: Only a blast-proof ceramic fuse can be used.

A WARNING

FOR FLAMMABLE REFRIGERANTS

Do not use means to accelerate the defrosting process or to clean, other than those recommended by 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.

A WARNING

PERSONAL INJURY AND PROPERTY DAMAGE HAZARD

For continued performance, reliability, and safety, the only approved accessories and replacement parts are those specified by the equipment manufacturer. The use of non-manufacturer approved parts and accessories could invalidate the equipment limited warranty and result in a fire risk, equipment malfunction, and failure.

Review the manufacturer's instructions and replacement parts catalogs available from your equipment supplier.

WARNING - RISK OF FIRE DUE TO FLAMMABLE REFRIGERANT USED. FOLLOW HANDLING INSTRUCTIONS CAREFULLY IN COMPLIANCE WITH NATIONAL REGULATIONS.





R-454B

Table 1 —Symbols displayed on the indoor unit or outdoor unit

outdoor unit							
⊗ A2L	WARNING	This symbol shows that this appliance used a flammable refrigerant. If the refrigerant is leaked and exposed to an external ignition source, there is a risk of fire.					
	CAUTION	This symbol shows that the operation manual should be read carefully.					
Ti.	CAUTION	This symbol shows that a service personnel should be handling this equipment					
	CAUTION	with reference to the installation manual.					
[]i	CAUTION	This symbol shows that information is available such as the operating manual or installation manual.					

Table 2 — A (min)

				HO, RELEASE	HEIGHT FT (M)		
	Mc or Mrel (lbs (kg)	≤ 7.2 (2.2)	7.5 (2.3)	7.9 (2.4)	8.5 (2.6)	9.2 (2.8)	9.8 (3.0)
	≤ 3.91 (1.776)			12 (1.10)	1	1
	4.0 (1.8)	60 (5.53)	57 (5.29)	55 (5.07)	50 (4.68)	47 (4.34)	44 (4.05)
	4.4 (2.0)	66 (6.14)	63 (5.88)	61 (5.63)	56 (5.2)	52 (4.83)	48 (4.5)
	4.9 (2.2)	73 (6.76)	70 (6.46)	67 (6.19)	62 (5.72)	57 (5.31)	53 (4.95)
	5.3 (2.4)	79 (7.37)	76 (7.05)	73 (6.76)	67 (6.24)	62 (5.79)	58 (5.41)
	5.7 (2.6)	86 (7.99)	82 (7.64)	79 (7.32)	73 (6.76)	68 (6.27)	63 (5.86)
	6.2 (2.8)	93 (8.6)	89 (8.23)	85 (7.88)	78 (7.28)	73 (6.76)	68 (6.31)
	6.6 (3.0)	99 (9.21)	95 (8.81)	91 (8.45)	84 (7.8)	78 (7.24)	73 (6.76)
	7.1 (3.2)	106 (9.83)	101 (9.4)	97 (9.01)	90 (8.32)	83 (7.72)	78 (7.21)
	7.5 (3.4)	112 (10.44)	108 (9.99)	103 (9.57)	95 (8.84)	88 (8.2)	82 (7.66)
unt	7.9 (3.6)	119 (11.06)	114 (10.58)	109 (10.14)	101 (9.36)	94 (8.69)	87 (8.11)
Amo ms)	8.4 (3.8)	126 (11.67)	120 (11.16)	115 (10.7)	106 (9.88)	99 (9.17)	92 (8.56)
Irel rge / ograi	8.8 (4.0)	132 (12.29)	126 (11.75)	121 (11.26)	112 (10.4)	104 (9.65)	97 (9.01)
or N Cha (kilc	9.3 (4.2)	139 (12.9)	133 (12.34)	127 (11.82)	117 (10.91)	109 (10.14)	102 (9.46)
MC ant inds	9.7 (4.4)	145 (13.51)	139 (12.93)	133 (12.39)	123 (11.43)	114 (10.62)	107 (9.91)
MC or Mrel Refrigerant Charge Amount pounds (kilograms)	10.1 (4.6)	152 (14.13)	145 (13.51)	139 (12.95)	129 (11.95)	119 (11.1)	112 (10.36)
Ref	10.6 (4.8)	159 (14.74)	152 (14.1)	145 (13.51)	134 (12.47)	125 (11.58)	116 (10.81)
	11 (5.0)	165 (15.36)	158 (14.69)	152 (14.08)	140 (12.99)	130 (12.07)	121 (11.26)
	11.5 (5.2)	172 (15.97)	164 (15.28)	158 (14.64)	145 (13.51)	135 (12.55)	126 (11.71)
	11.9 (5.4)	179 (16.58)	171 (15.86)	164 (15.2)	151 (14.03)	140 (13.03)	131 (12.16)
	12.3 (5.6)	185 (17.2)	177 (16.45)	170 (15.77)	157 (14.55)	145 (13.51)	136 (12.61)
	12.8 (5.8)	192 (17.81)	183 (17.04)	176 (16.33)	162 (15.07)	151 (14)	141 (13.06)
	13.2 (6.0)	198 (18.43)	190 (17.63)	182 (16.89)	168 (15.59)	156 (14.48)	145 (13.51)
	13.7 (6.2)	205 (19.04)	196 (18.21)	188 (17.45)	173 (16.11)	161 (14.96)	150 (13.96)
	14.1 (6.4)	212 (19.66)	202 (18.8)	194 (18.02)	179 (16.63)	166 (15.44)	155 (14.41)
	14.6 (6.6)	218 (20.27)	209 (19.39)	200 (18.58)	185 (17.15)	171 (15.93)	160 (14.86)
	15 (6.8)	225 (20.88)	215 (19.98)	206 (19.14)	190 (17.67)	177 (16.41)	165 (15.32)
	15.4 (7.0)	231 (21.5)	221 (20.56)	212 (19.71)	196 (18.19)	182 (16.89)	170 (15.77)
	15.9 (7.2)	238 (22.11)	228 (21.15)	218 (20.27)	201 (18.71)	187 (17.37)	175 (16.22)

Amin (ft2 (m2))
Mc: Actual refrigerant charge in the system lbs (Kgs)
Mrel: Refrigerant releasable charge lbs (Kgs)
Ho: Release height, measured from duct opening, in ft (m)
Hinst: Height of install, from the bottom of the indoor appliance, measured in ft (m)
Ho ≈ Hinst

Warning: Minimum room area of conditioned space is based on releasable charge or total system refrigerant charge.

NOTE: For R454B refrigerant charge amount and minimum room area: The machine you purchased may be one of the types in Table 3. The indoor and outdoor units are designed to be used together. Check the machine you purchased. The height of the room cannot be less than 7.3ft/2.2m, and the minimum room area of operating or storage should be as specified in Table 2.

Table 3 — Models

CARRIER
45MPHAQ06XA3
45MPHAQ09XA3
45MPHAQ12XA3
45MPHAQ18XA3

Table 4 — Refrigerant Leak

MODEL	06K	09K	12	18K
Nominal Air Volume	424CFM	424CFM	424CFM	611CFM

Table 5 — Compatibility

			MULTIZONE HEAT PUMP OUTDOOR UNIT									
		INDOOR UNIT	37MGRAQ18CA3		37MGRAQ24DA3		37MGRAQ30EA3 37MGRAQ36EA3		37MGRAQ48FA3	37MGRAQ55FA3		
					37MGHAQ18CA3		37MGHAQ24DA3		37MGHAQ30EA3 37MGHAQ36EA3	37MGHAQ48FA3	37MGHAQ55FA3	
		45MPHAQ06XA3	•	•	•	•	•	•	•	•		
High Wall	Wa	45MPHAQ09XA3	•	•	•	•	•	•	•	•		
	45MPHAQ12XA3	•	•	•	•	•	•	•	•			
		45MPHAQ18XA3		•	•	•	•	•	•	•		

Table 6 — Compatibility

	INDOOR UNIT		HEAT PUMP C	OUTDOOR UNIT	
		37MPRAQ06AA3	37MPRAQ09AA3	37MPRAQ12AA3	37MPRAQ18AA3
High Wall	45MPHAQ06XA3	•			
	45MPHAQ09XA3		•		
	45MPHAQ12XA3			•	
	45MPHAQ18XA3				•

NOTE: Refer to the unit's product data documents for a complete list of compatible units.

INSTALLATION

WARNING

Prior to Installation

Before installing the indoor unit, ensure the compatibility with the outdoor unit using the product data as a reference. It is also necessary to confirm the proper application of the equipment and to perform a heat load calculation for proper sizing.

- A location which is convenient to installation and not exposed to strong winds.
- A location which can bear the weight of the outdoor unit and where the outdoor unit can be mounted in a level position.
- A location which provides appropriate clearances (see INSTALLATION OVERVIEW on page 13).
- Allow sufficient space for airflow and service of the unit. See INSTALLATION OVERVIEW on page 13 for the required minimum distances between the unit or walls.

NOTE: DO NOT install the indoor or outdoor units in a location with special environmental conditions. For those applications, contact your Ductless representative.

A WARNING

FOR FLAMMABLE REFRIGERANTS

Do not use means to accelerate the defrosting process or to clean, other than those recommended by 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.

The room area of operating or storage should be as specified in Table 2 on page 4.

- 1. Installation (Space)
 - That the installation of pipe-work shall be kept to a minimum.
 - That pipe-work shall be protected from physical damage.
 - Where refrigerant pipes shall be compliance with national gas regulations.
 - That mechanical connections shall be accessible for maintenance purposes.
 - In cases that require mechanical ventilation, ventilation openings shall be kept clear of obstruction.
 - When disposing of the product is used, be based on national regulations, properly processed.

2. Servicing

- Any person who is involved with working on or breaking into a refrigerant circuit should hold a current valid certificate from an industry-accredited assessment authority, which authorities their competence to handle refrigerants safely in accordance with an industry recognized assessment specification.
- 3. Maintenance and repair requiring the assistance of other skilled personnel shall be carried out under the supervision of the person competent in the use of flammable refrigerants.
- Do not use any means to accelerate the defrosting process or to clean, other than those recommended by 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).
- Be more careful that foreign matter (oil, water, etc) does not enter the piping. Also, when storing the piping, securely seal the opening by pinching, taping, etc.

- 7. Do not pierce or burn.
- 8. Be aware that refrigerants may not contain an odor.
- All working procedure that affects safety means shall only be carried by competent persons.
- Appliance shall be stored in a well ventilated area where the room size corresponds to the room area as specific for operation.
- The appliance shall be stored so as to prevent mechanical damage from occurring.
- 12. Joints shall be tested with detection equipment with a capability of 5 g/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 after installation. Detachable joints shall NOT be used in the indoor side of the unit (brazed, welded joint could be used).

NOTE ON FUSE SPECIFICATIONS

- The air conditioner's circuit board (PCB) may be designed with a fuse to provide overcurrent protection. This fuse must be replaces with identical component.
- The specifications of the fuse, if equipped, are printed on the circuit board, examples of such are T5A/250VAC and T10A/250VAC.

NOTE: FLUORINATED GASSES (NOT APPLICABLE TO THE UNIT USING R290 REFRIGERANT)

- This air-conditioning unit contains fluorinated greenhouse gases. For specific information on the type of gas and the amount, please refer to the relevant label on the unit itself or the "Owner's Manual" in the packaging of the outdoor unit. (European Union products only).
- Installation, service, maintenance and repair of this unit must be performed by a certified technician.
- Product un-installation and recycling must be performed by a certified technician.
- When the unit is checked for leaks, proper record-keeping of all checks is strongly recommended.

1. **Installation** (where refrigerant pipes are allowed)

Any person who is involved with working on or breaking into a refrigerant circuit should hold a current valid certificate from an industry-accredited assessment authority, which authorizes their competence to handle refrigerants safely in accordance with an industry recognized assessment specification.

Maintenance and repair requiring the assistance of other skilled personnel shall be carried out under the supervision of the person competent in the use of flammable refrigerants.

That the installation of pipe-work shall be kept to a minimum. That pipe-work shall be protected from physical damage. Where refrigerant pipes shall be compliance with national gas regulations.

That mechanical connections shall be accessible for maintenance purposes.

Be more careful that foreign matter (oil, water, etc) does not enter the piping.

Also, when storing the piping, securely seal the opening by pinching, taping, etc.

All working procedure that affects safety means shall only be carried by competent persons.

Appliance shall be stored in a well ventilated area where the room size corresponds to the room area as specified for operation. Joints shall be tested with detection equipment with a capability of 5 g/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 after installation. Detachable joints shall NOT be used in the indoor side of the unit (brazed, welded joint could be used). In cases that require mechanical ventilation, ventilation openings shall be kept clear of obstruction.

LEAK DETECTION SYSTEM installed. Unit must be powered except for service. For the unit with refrigerant sensor, when the refrigerant sensor detects refrigerant leakage, the indoor unit will display a error code and emit a buzzing sound, the compressor of outdoor unit will immediately stop, and the indoor fan will start running. The service life of the refrigerant sensor is 15 years. When the refrigerant sensor malfunctions, the indoor unit will display the error code "FHCC".

The refrigerant sensor can not be repaired and can only be replaced by the manufacturer. It shall only be replaced with the sensor specified by the manufacturer.

- When a FLAMMABLE REFRIGERANT is used, the requirements for installation space of appliance and/or ventilation requirements are determined according to
 - the mass charge amount (M) used in the appliance, the installation location, the type of ventilation of the location or of the appliance. 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, 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.

that protection devices, piping, and fittings shall be protected as far as possible against adverse environmental affects, for example, the danger of water collecting and freezing in relief pipes or the accumulation of dirt and debris;

- that piping in refrigeration systems shall be so designed and installed to minimize the likelihood of hydraulic shock damaging the system;

- that steel pipes and components shall be protected against corrosion with a rustproof coating before applying any insulation;
- that precautions shall be taken to avoid excessive vibration or pulsation;

the minimum floor area of the room shall be mentioned in the form of a table or a single figure without reference to a formula; after completion of field piping for split systems, the field pipework shall be pressure tested with an inert gas and then vacuum tested prior to refrigerant charging, according to the following requirements:

- a. The minimum test pressure for the low side of the system shall be the low side design pressure and the minimum test pressure for the high side of the system shall be the high side design pressure, unless the high side of the system cannot be isolated from the low side of the system in which case the entire system shall be pressure tested to the low side design pressure.
- b. The test pressure after removal of pressure source shall be maintained for at least 1 h with no decrease of pressure indicated by the test gauge, with test gauge resolution not exceeding 5% of the test pressure.
- c. During the evacuation test, after achieving a vacuum level specified in the manual or less, the refrigeration system shall be isolated from the vacuum pump and the pressure shall not rise above 1500 microns within 10 min. The vacuum pressure level shall be specified in the manual, and shall be the lessor of 500 microns or the value required for compliance with national and local codes and standards, which may vary between residential, commercial, and industrial buildings.
- field-made refrigerant joints indoors shall be tightness tested according to the following requirements: The test method shall have a sensitivity of 5 grams per year of refrigerant or better under a pressure of at least 0.25 times the maximum allowable pressure. No leak shall be detected.

3. Qualification of Workers

Any maintenance, service and repair operations must be required qualification of the working personnel. Every working procedure that affects safety means shall only be carried out by competent persons that joined the training and achieved competence should be documented by a certificate. The training of these procedures is carried out by national training organizations or manufacturers that are accredited to teach the relevant national competency standards that may be set in legislation. All training shall follow the ANNEX HH requirements of UL 60335-2-40 4th Edition.

Examples for such working procedures are:

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

Information Servicing

1. Checks to the area

Prior to beginning work on systems containing flammable refrigerants, safety checks are necessary to ensure that the risk of ignition is minimized. For repair to the refrigerating system, the following precautions shall be complied with prior to conducting work on the system.

2. Work procedure

Works shall be undertaken under a controlled procedure so as to minimize the risk of a flammable gas or vapor being present while the work is being performed.

3. General work area

All maintenance staff and others working in the local area shall be instructed on the nature of work being carried out. work in confined spaces shall be avoided.

4. Checking for presence of refrigerant

The area shall be checked with an appropriate refrigerant detector prior to and during work, to ensure the technician is aware of potentially flammable atmospheres. Ensure that the leak detection equipment being used is suitable for use with flammable refrigerants, i.e. no sparking, adequately sealed or intrinsically safe.

5. Presence of a fire extinguisher

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

6. No ignition sources

No person carrying out work in relation to a REFRIGERATING SYSTEM which involves exposing any 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 to make sure that there are no flammable hazards or ignition risks. "No Smoking" signs shall be displayed.

7. Ventilated area

Ensure that the area is in the open or that it adequately ventilated before breaking into the system or conducting any hot work. A degree of ventilation shall continue during the period that the work is carried out. The ventilation should safely disperse any released refrigerant and preferably expel it externally into the atmosphere.

8. Checks to the refrigeration equipment

Where electrical components are being changed, they shall be fit for the 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 installations using FLAMMABLE REFRIGERANTS:

- a. the actual refrigerant charge is in accordance with the room size within which the refrigerant containing parts are installed;
- the ventilation machinery and outlets are operating adequately and are not obstructed;
- c. if an indirect refrigerating circuit is being used, the secondary circuits shall be checked for the presence of refrigerant;
- d. marking to the equipment continues to be visible and legible, marking and signs that are illegible shall be corrected;
- e. refrigeration pipe or components are installed in a position where they are unlikely to be exposed to any substance which may corrode refrigerant containing components, unless the components are constructed of materials which are inherently resistant to being corroded or are suitably protected against being so corroded.

9. Checks to electrical devices

Repair and maintenance to electrical components shall include initial safety checks and component inspection procedures. If a fault exists that could compromise safety, then no electrical supply shall be connected to the circuit until it is satisfactorily dealt with. If the fault cannot be corrected immediately but it is necessary to continue operation, and adequate temporary solution shall be used. This shall be reported to the owner of the equipment so all parties are advised. **Initial safety checks shall include:**

- that capacitors are discharged: this shall be done in a safe manner to avoid possibility of sparking

- that there no live electrical components and wiring are exposed while charging,
- recovering or purging the system; that there is continuity of earth bonding.
- 10. Sealed electrical components shall be replaced
- 11. Intrinsically safe components must be replaced.

12. 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.

13. Detection of flammable refrigerants

Under no circumstances shall potential sources of ignition be used in the searching for or detection of refrigerant leaks. A halide torch (or any other detector using a naked flame) shall not be used. The following leak detection methods are deemed acceptable for refrigerant systems. Electronic leak detectors may be used to detect refrigerant leaks but, in the case of FLAMMABLE REFRIGERANTS, 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 also 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 pipework.

NOTE Examples of leak detection fluids are:

- bubble method,
- fluorescent method agents.

If a leak is suspected, all naked flames shall be removed/extinguished. If a leakage of refrigerant is found which requires brazing, all of the refrigerant shall be recovered from the system, or isolated (by means of shut o valves) in a part of the system remote from the leak. See the following instructions of removal of refrigerant.

14. Removal and evacuation

When breaking into the refrigerant circuit to make repairs - or for any other purpose conventional procedures shall be used. However, for flammable refrigerants it is important that best practice be followed, since flammability is a consideration.

The following procedure shall be adhered to:

- safely remove refrigerant following local and national regulations;
- evacuate;
- purge the circuit with inert gas (optional for A2L);
- evacuate (optional for A2L);
- continuously flush or purge with inert gas when using flame to open circuit; and
- open the circuit

The refrigerant charge shall be recovered into the correct recovery cylinders if venting is not allowed by local and national codes. For appliances containing flammable refrigerants, the system shall be purged with oxygen-free nitrogen to render the appliance safe for flammable refrigerants. This process might need to be repeated several times. Compressed air or oxygen shall not be used for purging refrigerant systems.

For appliances containing flammable refrigerants, refrigerants purging shall be achieved by breaking the vacuum in the system with oxygen-free nitrogen and continuing to fill until the working pressure is achieved, then venting to atmosphere, and finally pulling down to a vacuum (optional for A2L). This process shall be repeated until no refrigerant is within the system (optional for A2L). When

the final oxygen-free nitrogen charge is used, the system shall be vented down to atmospheric pressure to enable work to take place. The outlet for the vacuum pump shall not be close to any potential ignition sources, and ventilation shall be available.

15. Charging procedures

In addition to conventional charging procedures, the following requirements shall be followed:

- Works shall be undertaken with appropriate tools only (In case of uncertainty, please consult the manufacturer of the tools for use with flammable refrigerants)
- Ensure that contamination of different refrigerants does not occur when using charging equipment. Hoses or lines shall be as short as possible to minimize the amount of refrigerant contained in them.
- Cylinders shall be kept upright.
- Ensure that the refrigeration system is earthed prior to charging the system with refrigerant.
- Label the system when charging is complete (if not already).
- Extreme care shall be taken not to overfill the refrigeration system.
- Prior to recharging the system it shall be pressure tested with oxygen free nitrogen (OFN). The system shall be leak tested on completion of charging but prior to commissioning. A follow up leak test shall be carried out prior to leaving the site.

16. Decommissioning

Before carrying out this procedure, it is essential that the technician is completely familiar with the equipment and all its detail. 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 recovered refrigerant. It is essential that electrical power is available before the task is commenced.

- a. Become familiar with the equipment and its operation.
- b. Isolate system electrically
- c. 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.
- d. Pump down refrigerant system, if possible.
- e. If a vacuum is not possible, make a manifold so that refrigerant can be removed from various parts of the system.
- f. Ensure the cylinder is situated on the scales before recovery takes place.
- g. Start the recovery machine and operate in accordance with instructions.
- h. Do not overfill cylinders (no more than 80% volume liquid charge)
- i. Do not exceed the maximum working pressure of the cylinder, even temporarily.
- j. When the cylinders have been filled correctly and the process completed, make sure that the cylinders and the equipment are removed from site promptly and all isolation valves on the equipment are closed off.
- Recovered refrigerant shall not be charged into another refrigeration system unless it has been cleaned and checked.

17. Labeling

Equipment shall be labeled stating that it has been de-commissioned and emptied of refrigerant. The label shall be dated and signed. For appliances containing FLAMMABLE REFRIGERANTS, ensure that there are labels on the equipment stating the equipment contains FLAMMABLE REFRIGERANT.

18. 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 is 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-o 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 that is at hand and shall be suitable for the recovery of the flammable refrigerant. If in doubt, the manufacturer should be consulted. 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

The recovered refrigerant shall be processed according to local legislation in the correct recovery cylinder, and the relevant waste transfer note arranged. Do not mix refrigerants in recovery units and especially not in cylinders. If compressors or compressor oils are to be removed, ensure that they have been evacuated to an acceptable level to make certain that flammable refrigerant does not remain within the lubricant. The compressor body shall not be heated by an open flame or other ignition sources to accelerate this process. When oil is drained from a system, it shall be carried out safely.

19. Transportation, marking and storage for units

- a. Transport of equipment containing flammable refrigerants Compliance with the transport regulations.
- b. Marking of equipment using signs / Compliance with local regulations.
- Disposal of equipment using flammable refrigerants / Compliance with national regulations.
- d. Storage of equipment/appliances / The storage of equipment should be in accordance with the manufacturer's instructions.
- e. Storage of packed (unsold) equipment / Storage package protection should be constructed such that mechanical damage to the equipment inside the package will not cause a leak of the refrigerant charge.
- f. The maximum number of pieces of equipment permitted to be stored together will be determined by local regulations.

ACCESSORIES

The system is shipped with the following accessories. Use all of the installation parts and accessories to install the system. Improper installation may result in water leakage, electrical shock and fire, or cause the equipment to fail. Keep the installation manual in a safe place and do not discard any other accessories until the installation has been completed.

Table 7 — Accessories

NAME	QUANTITY	SHAPE	NAME	QUANTITY	SHAPE		
Manual	2	Manual	Remote controller	1			
Mounting Plate + Template	1+1		Batteries	2	(a)		
Anchor	5		Remote controller holder	1			
Mounting Plate Securing Screw	5	400000U)	Securing screw for remote controller holder	2	40000 €		
Flare Nut	2	@	Small Filter (Needs to be installed on the back of main air filter by an authorized technician	1-2			
Drainage Pipe	1		while installing the unit.				
USB Wi-Fi Dongle (pre-installed)	1		NOTE: Use the flare nuts to connect the connecting pipes between indoor and outdoor units.				

Table 8 — Pipe Specification

NAME	MODEL	PIPE SPEC	CIFICATION	REMARK	
	WIODEL	LIQUID SIDE	GAS SIDE	REWARK	
Connecting Pipe Assembly	06K	Ф1/4 in (Ф6.35mm)	Ф3/8 in (Ф9.52mm)		
	09K	Ф1/4 in (Ф6.35mm)	Ф3/8 in (Ф9.52mm)	Parts you must purchase separately. Consult the dealer about the proper pipe	
	12K	12K Φ1/4 in (Φ6.35mm) Φ3		size of the unit you purchased.	
	18K	Ф3/8 in (Ф9.52mm)	Ф5/8 in (Ф16mm)		

MODEL NUMBERS

Table 9 — Model Numbers

RESIDENTIAL							
06K	09K	12K	18K				
45MPHAQ06XA3	45MPHAQ09XA3	45MPHAQ12XA3	45MPHAQ18XA3				

DIMENSIONS

Table 10 — Dimensions

SYSTEM SIZE		06K	09K	12K	18K
		(208/230 V)	(208/230 V)	(208/230 V)	(208/230 V)
Height (H)	in (mm)	12.56(319)	12.56(319)	12.56(319)	14.57(370)
Width (W)	in (mm)	37.99(965)	37.99(965)	37.99(965)	44.88(1140)
Depth (D)	in (mm)	9.41(239)	9.41(239)	9.41(239)	10.83(275)
Weight -Net	lbs. (kg)	28.22(12.8)	28.22(12.8)	28.22(12.8)	43.65(19.8)

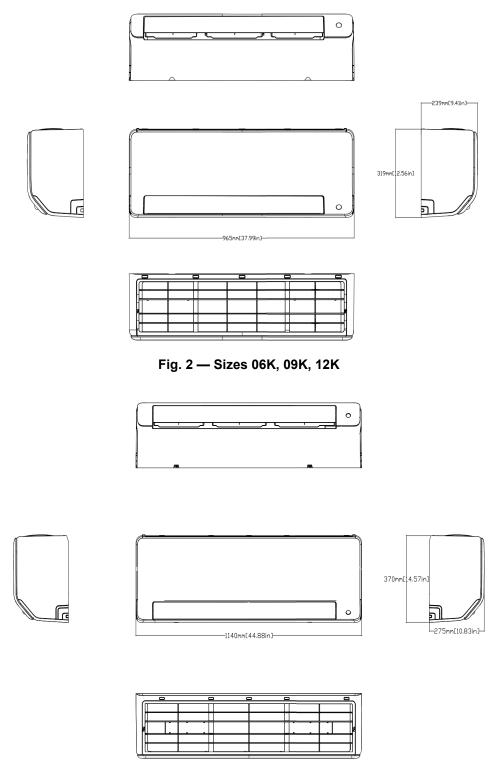


Fig. 3 — Size 18K

ELECTRICAL DATA

Table 11 — Electrical Data

OUTDOOR UNIT		06K	09K	12K	18K
OUTDOOR UNIT		(208/230V)	(208/230V)	(208/230V)	(208/230V)
Minimum Circuit Ampacity (MCA)	Α	3	3	3	3
Maximum Overcurrent Protection Ampacity (MOPA)	Α	15	15	15	15
Voltage-Phase-Frequency		208/230-1-60			
Max – Min Voltage Range		253-187			

LEGEND

FLA - Full Load Amps
MCA - Minimum Circuit Amps
MCA - Maximum Circuit Amps

MOP- Maximum Overcurrent Protection

NOTE: Outdoor Units: These units can connect with: Residential, and Light Commercial units.

WIRING DIAGRAM

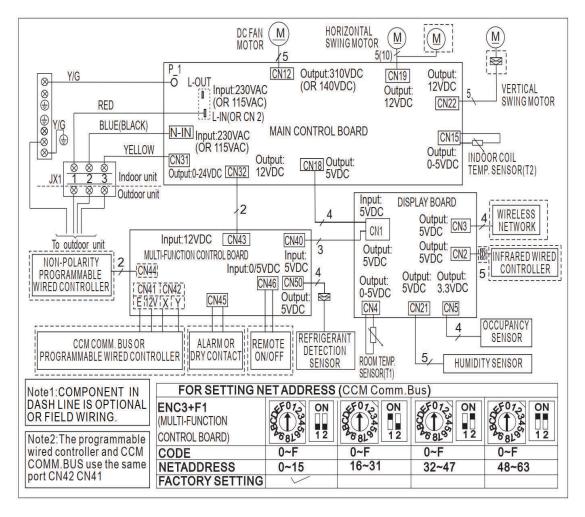


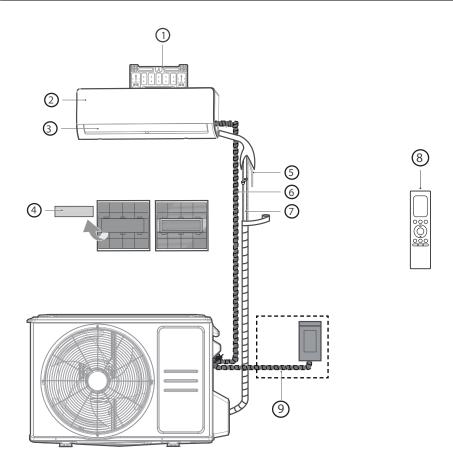
Fig. 4 — Sizes 06, 09, 12, 18K

INSTALLATION OVERVIEW

NOTE: Illustrations in this manual are for explanatory purposes. The actual shape of your indoor unit may be slightly different. The actual shape shall prevail.

NOTE ON ILLUSTRATIONS:

Illustrations in this manual are for explanatory purposes. The actual shape of your indoor unit may be slightly different.



- (1) Wall Mounting Plate
- 2) Front Panel
- (3) Louver
- (4) Air Filter

- (5) Drain Pipe
- 6 Connection Cable (purchase separately)
- Refrigerant Piping (purchase separately)

- 8 Remote Controller
- Outdoor Unit Power Cable (purchase separately)

Recommended tools



Gloves



Screwdriver & wrench



Hammer drill



Core drill

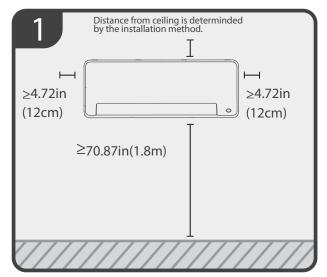


Goggles & masks



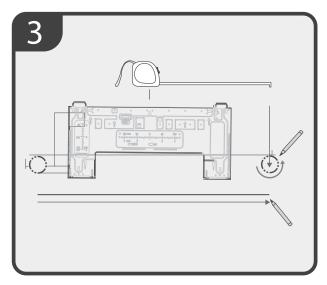
Vinyl tape

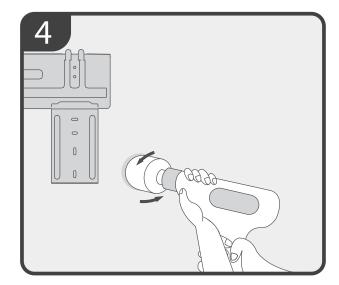
Installation Summary - Indoor Unit



Select Installation Location

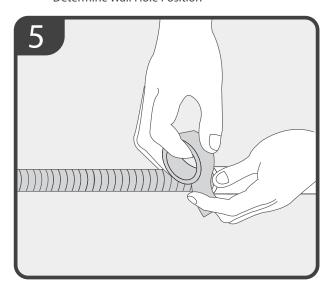






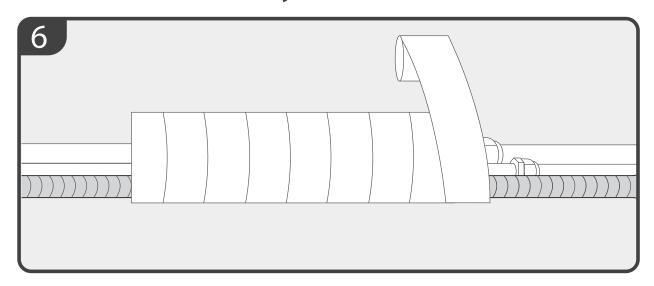
Determine Wall Hole Position

Drill Wall Hole

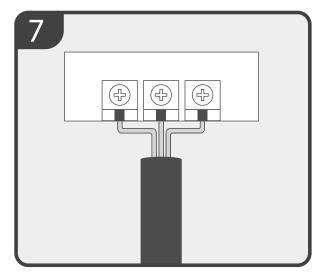


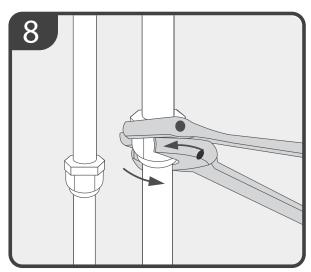
Prepare Drain Hose

Installation Summary - Indoor Unit



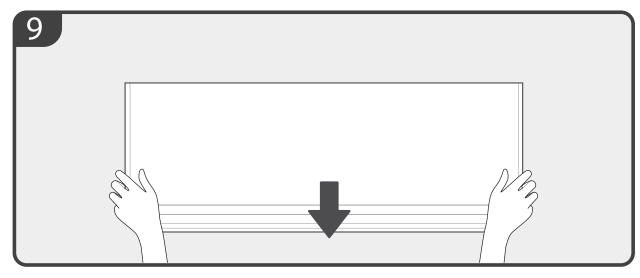
Wrap Piping and drain hose





Connect Wiring

Connect Piping



Mount Indoor Unit

INSTALLATION

Step 1 - Select Your Indoor Unit

Install your Indoor Unit.

1

Select installation location



NOTE: PRIOR TO INSTALLATION

Before installing the indoor unit, refer to the label on the product box to ensure that the model number of the indoor unit matches the model number of the outdoor unit.

The following are standards that will help you choose an appropriate location for the unit.

Proper installation locations meet the following standards:







☑ Convenient drainage



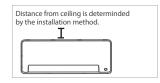
Noise from the unit will not disturb other people.



A location at least one meter from all other electrical devices (e.g., TV, radio, computer)



- Firm and solid—the location will not vibrate
- Strong enough to support the weight of the unit



If there is no need for the back holder to prop up the unit: Finish the pipe and cable connections before mounting the indoor unit on the wall. If the instllation height is limited, 1.97in (5cm) from the ceiling is allowable, however this can lower product performance. To ensure enough space to install and remove the top air filter, keep at least 3.94in(10cm) or more from the ceiling.

If you need the back holder to prop up the unit: If connecting pipe and cable with front panel open, the minimum distance from ceiling is 8.67in(22cm) or more, if connecting the pipe and cable without front panel (remove it), the minimum distance from ceiling is 4.33in(11cm) or more.

DO NOT install unit in the following locations:

- Near any source of heat, steam, or combustible gas
- Near flammable items such as curtains or clothing
- Near any obstacle that might block air circulation
- Near the doorway
- In a location subject to direct sunlight

NOTE FOR PRODUCT INSTALLATION: If there is no fixed refrigerant piping: While selecting a location, be aware that you should leave ample room for a wall hole (see Drill wall hole for connecting piping step) for the signal cable and refrigerant piping that connect the indoor and outdoor units. The default position for all piping is the right side of the indoor unit (while facing the unit). However, the unit can accommodate piping to both the left and right.

Step 2 - Drill Wall Hole For Connecting Piping

Determine wall hole location

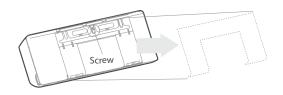


NOTE: WALL HOLE SIZE

The size of the wall hole is determined by the connecting pipes. When the pipe size of the gas side is Φ 5/8in(Φ 16mm) or more, the wall hole should be Φ 3.54in(Φ 90mm). When the pipe size of gas side is less than Φ 5/8in(Φ 16mm), the wall hole should be Ф2.5in(Ф65mm).

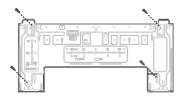
Step 1:

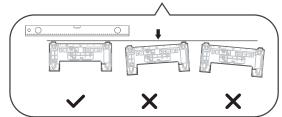
Remove the screw that attaches the mounting plate to the back of the indoor unit.



Step 2:

Secure the mounting plate to the wall with the screws provided. Make sure that mounting plate is flat against the wall.



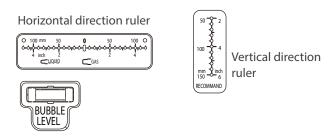


Correct orientation of Mounting Plate

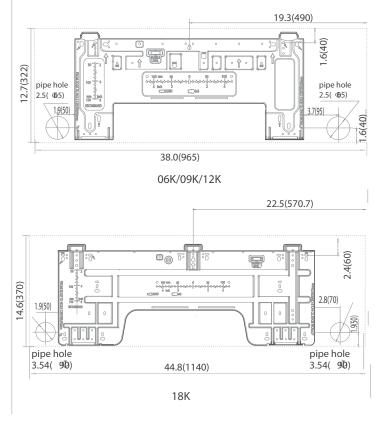
Step 3:

Confirm the mounting plate you own. Determine the location of the wall hole based on the position of the mounting plate. The dotted rectangular box on the right figure shows the size of your product.

CAUTION: For the convenience of installation, there are bubble level, carved dimensions on the mounting plate. The Bubble level on the mounting plate can't be removed. If it is broken, make sure to clean up the leaking liquid.



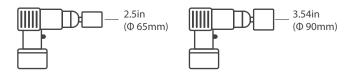
Unit: inch(mm)



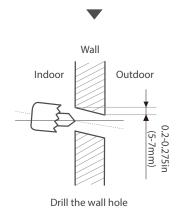
⚠ CAUTION

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

Drill wall hole

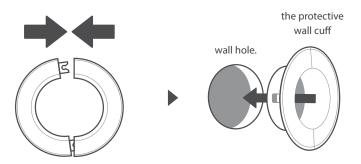


Using a 2.5in(65mm) or 3.54in(90mm) core drill(according to the unit you purchased)



Step 1:

Using a 2.5in(65mm) or 3.54in(90mm) core drill, drill a hole in the wall. Ensure that the hole is drilled at a slight downward angle, so that the outdoor end of the hole is lower than the indoor end by about 0.2-0.275in(5-7mm). This will ensure proper water drainage.



Step 2:

Place the protective wall cuff in the hole. This protects the edges of the hole and will help seal it when you finish the installation process.

Place the protective wall cuff in the hole.

NOTE: FOR CONCRETE OR BRICK WALLS

If the wall is made of brick, concrete, or similar material, drill 0.2in-diameter(5mm-diameter) holes in the wall and insert the sleeve anchors provided. Then secure the mounting plate to the wall by tightening the screws directly into the clip anchors.

Step 3 - Install Refrigerant pipe and Drain Hose

Prepare refrigerant piping

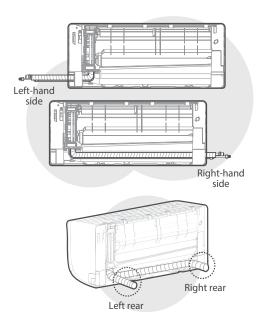
Step 1:

Based on the position of the wall hole relative to the mounting plate, choose the side from which the piping will exit the unit. You have four options for the exit direction of the piping.

NOTE ON PIPING CONNECTING

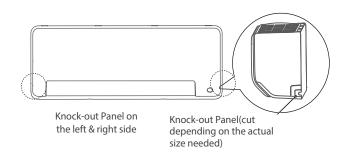
In some locations of US, a conduit tube must be used to connect the cable. To ensure enough space for the pipes running and the machine is against the wall after installation, It is recommended to attach the drain hose to the right-hand side (when you're facing the back of the unit).

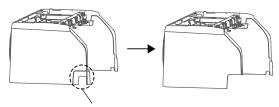
When choose Left-hand side or Right-hand side piping, make sure that the pipes come out horizontally so as not to affect the lower panel installation.



Step 2:

If the wall hole is behind the unit, keep the knock-out panel in place. If the wall hole is to the side of the indoor unit, remove the plastic knock-out panel from that side of the unit. Use needle nose pliers if the plastic panel is too difficult to remove by hand.





If need to cut the big size plastic panel, cut as shown above.

Step 3:

Use the holder at the back of the unit to prop up the unit, giving you enough room to connect the refrigerant piping, and drain hose.

Step 4:

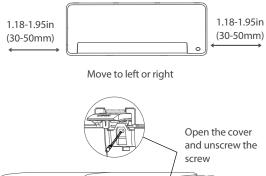
Connect the indoor unit's refrigerant piping to the connective piping that will join the indoor and outdoor units. Refer to the Refrigerant Piping Connection section of this manual for detailed instructions.

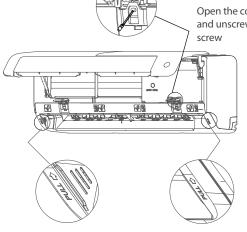
Step 5:

Based on the position of the wall hole relative to the mounting plate, determine the necessary angle of your piping. Grip the refrigerant piping at the base of the bend. Slowly, with even pressure, bend the piping towards the hole. Do not dent or damage the piping during the process.

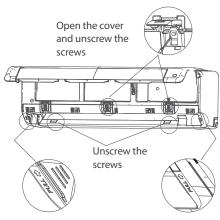
Be extremely careful not to dent or damage the piping while bending them away from the unit. Any dents in the piping will affect the unit's performance.

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

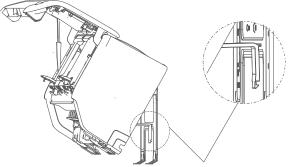




Model A



Model B



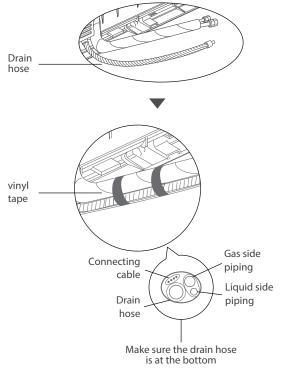
Use the holder at the back of the unit against on the mounting plate to prop up the unit

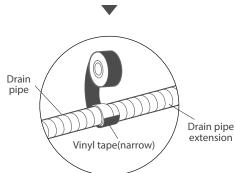
NOTE: UNIT IS ADJUSTABLE

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 about 1.18-1.95in(30-50mm), depending on the model.

- Open and fix the position of the panel, then, open the covers of the two lock blocks, unscrew the screw showed in the picture (Model A & Model B), then hold both sides of the lower panel in the place marked "PULL", pull it upwards to release the buckles, then take the lower panel down.
- Use the holder at the back of the unit to prop up the unit, giving you enough room to connect the refrigerant piping, and drain hose.
- Connect drain hose and refrigerant piping (refer to Refrigerant Piping Connection section of this manual for instructions).
- Keep pipe connection point exposed to perform the leak test (refer to Electrical Checks and Leak Checks section of this manual).
- After the leak test, wrap the connection point with insulation tape.
- Release the holder that is propping up the unit.
- 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.

Connect drain hose





Step 1:

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 your refrigerant piping exits the unit. Attach drain hose extension (purchased separately) to the end of drain hose.

 Wrap the connection point firmly with Teflon tape to ensure a good seal and 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 make sure that water flows from the unit smoothly.



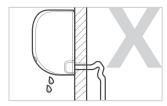
NOTE ON DRAIN HOSE PLACEMENT

Make sure to arrange the drain hose according to the following figures.



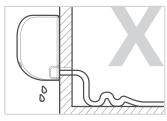
CORRECT

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



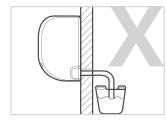
NOT CORRECT

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.

Step 4 - Electrical Work Preparation



- BEFORE PERFORMING ANY ELECTRICAL WORK, READ THESE REGULATIONS
- BEFORE PERFORMING ANY ELECTRICAL OR WIRING WORK, TURN OFF THE MAIN POWER TO THE SYSTEM.
- 1. All wiring must comply with local and national electrical codes, regulations and must be installed by a licensed electrician.
- 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 air conditioner.
- 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.

MARNING

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

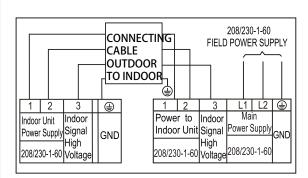
Connect signal and power cables

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 the local electrical codes and regulations. Please choose the right cable size according to the Minimum Circuit Ampacity indicated on the nameplate of the unit.

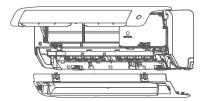
↑ DO NOT MIX UP LIVE AND NEUTRAL WIRES

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

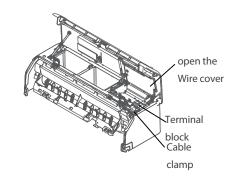


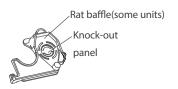
Connection Diagram (208/230V)

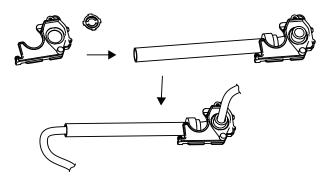
- 1. Open and fix the position of the panel, then open the covers of the two lock blocks, remove the screw, then hold both sides of the lower panel in the place marked "PULL", pull it upwards to release the buckles, then take the lower panel down(please refer to Page 38).
- 2. Open the wire box cover on the right side of the unit. This will reveal the terminal block.
- 3. Unscrew the cable clamp below the terminal block and place it to the side.
- 4. Facing the back of the unit, remove the plastic panel on the bottom left-hand side.
- 5. Feed the signal wire through this slot, from the back of the unit to the front.
- 6. Facing the front of the unit, connect the wire according to the indoor unit's wiring diagram, connect the u-lug and firmly screw each wire to its corresponding terminal.
- 7. After checking to make sure every connection is secure, use the cable clamp to fasten the signal cable to the unit. Screw the cable clamp down tightly.
- 8. Replace the wire cover on the front of the unit, and the plastic panel on the back.



First open the front panel, then remove the lower panel.





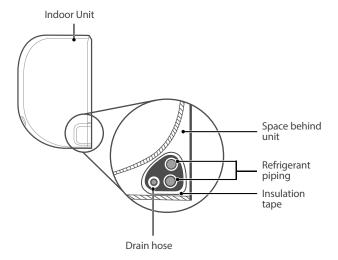


First remove the knock-out panel to create a slot through whick the conduit tube can install. Then make the cable through the conduit tube and connect to the indoor unit.

Step 5 - Wrap Piping and Cables

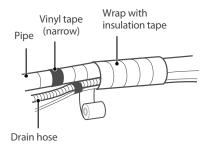


Before passing the piping, and drain hose through the wall hole, you must bundle them together to save space, protect them, and insulate them.



Step 1:

Bundle the drain hose, refrigerant pipes as shown above.



Step 2:

Using adhesive vinyl tape, attach the drain hose to the underside of the refrigerant pipes.

Step 3:

Using insulation tape, wrap the refrigerant pipes, and drain hose tightly together. Double-check that all items are bundled.

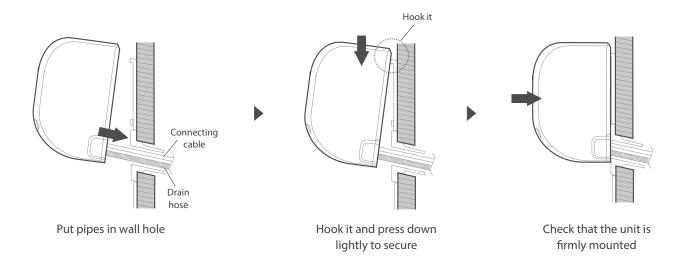
DRAIN HOSE MUST BE ON BOTTOM

Make sure that 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 (refer to Electrical Checks and Leak Checks section of this manual).

Step 6 - Mount Indoor Unit

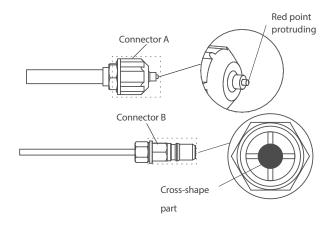


If you installed new connective piping to the outdoor unit, do the following:

- If you have already passed the refrigerant piping through the hole in the wall, proceed to Step 4.
- Otherwise, double-check that the ends of the refrigerant pipes are sealed to prevent dirt or foreign materials from entering the pipes.
- Slowly pass the wrapped bundle of refrigerant pipes, drain hose, and signal wire through the hole
 in the wall
- Hook the top of the indoor unit on the upper hook of the mounting plate.
- Check that unit is hooked firmly on mounting by applying slight pressure to the left and right-hand sides of the unit. The unit should not jiggle or shift.
- 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.
- Again, check that the unit is firmly mounted by applying slight pressure to the left and the right-hand sides of the unit.

⚠ CAUTION

For the units adopt the following pipe connectors, please strictly perform the piping work in accordance with the following instructions.



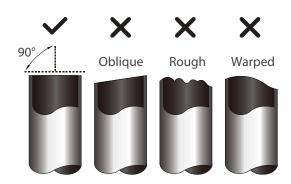
- Before performing the refrigerant piping connection, always wear work gloves and goggles, and remember that the connectors A and B are not allowed to face people directly.
- Keep pressing the cross-shape part of connector B with a tool for about 5~10 seconds until the red protuding point of connector A retracts completely.
- Remove connectors A and B, then perform the refrigerant piping connection between indoor unit and outdoor unit.

CONNECTION INSTRUCTIONS - REFRIGERANT PIPING

Step 1 - Cut Pipes

When preparing refrigerant pipes, take extra care to cut and flare them properly. This will ensure efficient operation and minimize the need for future maintenance.

- Measure the distance between the indoor and outdoor units.
- Using a pipe cutter, cut the pipe a little longer than the measured distance.
- Make sure that the pipe is cut at a perfect 90° angle.





DO NOT DEFORM PIPE WHILE CUTTING

Be extra careful not to damage, dent, or deform the pipe while cutting. This will drastically reduce the heating efficiency of the unit.

Step 2 - Remove Burrs

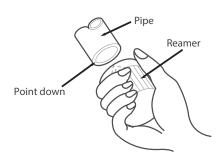
⚠ CAUTION

MUST CHECK OVER THE END OF THE PIPE FOR CRACKS AND EVEN FLARING. ENSURE THE PIPE IS SEALED.

Step 2: Remove burrs

Burrs can affect the air-tight seal of refrigerant piping connection. Burrs must be completely removed.

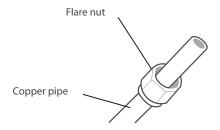
- Hold the pipe at a downward angle to prevent burrs from falling into the pipe.
- Using a reamer or deburring tool, remove all burrs from the cut section of the pipe.



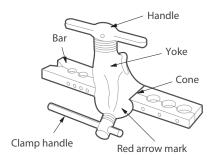
Step 3: Flare pipe ends

Proper flaring is essential to achieve an airtight seal.

- After removing burrs from cut pipe, seal the ends with PVC tape to prevent foreign materials from entering the pipe.
- Sheath the pipe with insulating material.
- Place flare nuts on both ends of pipe. Make sure they are facing in the right direction, because you can not put them on or change their direction after flaring.

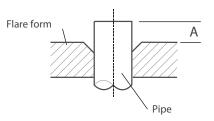


- Remove PVC tape from ends of pipe when ready to perform flaring work.
- Clamp flare form on the end of the pipe.
 The end of the pipe must extend beyond the edge of the flare form in accordance with the dimensions shown in the table below.



PIPING EXTENSION BEYOND FLARE FORM

Outer Diameter of	A	A			
Pipe	Min.	Max.			
Ø 1/4in (Ø 6.35mm)	0.0275in(0.7mm)	0.05in(1.3mm)			
Ø 3/8in (Ø 9.52mm)	0.04in(1.0mm)	0.063in(1.6mm)			
Ø 5/8in (Ø 16mm)	0.078in(2.0mm)	0.086in(2.2mm)			



- Place the flaring tool onto the form.
- Turn the handle of the flaring tool clockwise until the pipe is fully flared.
- Remove the flaring tool and flare form, then inspect the end of the pipe for cracks and even flaring.

Torque Requirement to Connect Pipes



WHEN CONNECTING REFRIGERANT PIPES, BE CAREFUL NOT TO USE EXCESSIVE TORQUE OR TO DEFORM THE PIPING IN ANY WAY. YOU SHOULD FIRST CONNECT THE LOW-PRESSURE PIPE, THEN THE HIGH-PRESSURE PIPE.

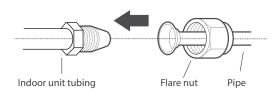
MINIMUM BEND RADIUS

When bending connective refrigerant piping, the minimum bending radius is 4in(10cm).

Instructions for Connecting Piping to Indoor Unit

Step 1:

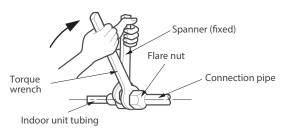
• Align the center of the two pipes that you will connect.



Step 2:

- Tighten the flare nut as tightly as possible by hand.
- Using a spanner, grip the nut on the unit tubing.
- While firmly gripping the nut on the unit tubing, use a torque wrench to tighten the flare nut according to the torque values in the Torque Requirements table below. Loosen the flaring nut slightly, then tighten again.

(10cm)



TORQUE REQUIREMENTS

Outer Diameter of Pipe	Tightening Torque	Flare Dimension(B)	Flare Shape
Ø 1/4in (Ø 6.35mm)	13-15 ft-lb (18-20 n.m)	0.33~0.34in (8.4~8.7mm)	90°±4
Ø 3/8in (Ø 9.52mm)	24-29 ft-lb (32-39 n.m)	0.52~0.53in (13.2~13.5mm)	B
Ø 5/8in (Ø 16mm)	42-52 ft-lb (57-71 n.m)	0.76~0.78in (19.2~19.7mm)	R0.4~0.8



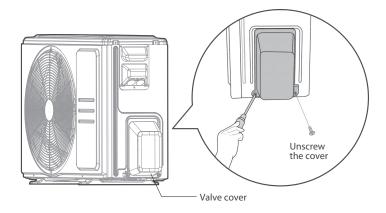
DO NOT USE EXCESSIVE TORQUE

Excessive force can break the nut or damage the refrigerant piping. You must not exceed torque requirements shown in the table above.

Connecting Piping to the Outdoor Unit

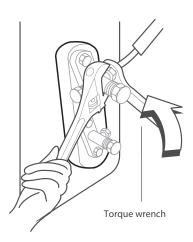


This section still needs to be operated according to the TORQUE REQUIREMENTS chart on the previous page.



Step 1:

• Unscrew the cover from the packed valve on the side of the outdoor unit.



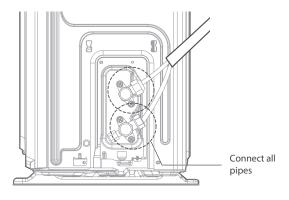
Step 2:

- Remove protective caps from ends of valves.
- Align flared pipe end with each valve, and tighten the flare nut as tightly as possible by hand.
- Using a spanner, grip the body of the valve. Do not grip the nut that seals the service valve.



USE SPANNER TO GRIP MAIN BODY OF VALVE

Torque from tightening the flare nut can snap off other parts of valve.



Step 3:

- While firmly gripping the body of the valve, use a torque wrench to tighten the flare nut according to the correct torque values.
- Loosen the flaring nut slightly, then tighten again.
- Repeat Steps 3 to 6 for the remaining pipe.

WIRELESS REMOTE CONTROLLER INSTALLATION



Fig. 5 — Wireless Remote (RG10L5))

To attach the mounting bracket:

- Use the two screws supplied with the wireless remote control to attach
 the mounting bracket to the wall in a location selected by the customer
 and within operating range.
- 2. Install the batteries in the remote control.
- 3. Place the remote control into the remote control mounting bracket.

NOTE: For remote control operation, refer to the remote control's owners manual.

OPTIONAL WIRED WALL-MOUNTED REMOTE CONTROL INSTALLATION

The wired remote controller comes with the following items:

- A set of installation instructions and owner's manuals
- 3 M4X20 Screws to mount on the wall
- 4 wall plugs to mount on the wall
- 2 M4X25 to mount on switch box
- 2 plastic screw bars to fix on switch box
- 1 set of batteries
- 1 set of connecting wires to connect to indoor unit's main board



Fig. 6 — Wired Controller (KSACN1401AAA)

For wired controller set up and installation instructions, consult the wired controller installation manual.

TROUBLESHOOTING

Table 12 — Error Codes

Display	Malfunction and Protection Indication
ECO7	ODU Fan Speed Out of Control
EC51	ODU EEPROM Parameter Error
EC52	ODU Coil Temperature Sensor(T3) error
EC53	ODU Ambient Temperature Sensor (T4) Error
EC54	COMP. Discharge Temperature Sensor (TP) Error
EC5L	IDU Coil Temperature Sensor (T2B) Error
ECC1	Other IDU Refrigerant Sensor Detects Leakage (Multi-zone)*
EHOO	IDU EEPROM Malfunction
EH03	IDU Fan Speed Out of Control
EHOA	IDU EEPROM Parameter Error
EHOE	Water Level Alarm Malfunction
EH75	Main Unit or Secondary Units Malfunction
ЕНЗА	External Fan DC bus voltage is too low protection
ЕНЗЬ	External Fan DC bus voltage is too high fault
EHPO	IDU Room Temperature (T1) Error
EHP7	IDU Coil Temperature Sensor (T2) Error
EHba	Communication Error between the indoor unit and the external fan module
EHC1	Refrigerant Sensor Detects Leakage
EHC5	Refrigerant Sensor is out of range and a leak is detected
EHC3	Refrigerant Sensor is out of range*
ELO1	IDU and ODU Communication Error
ELOC	System lacks refrigerant
EL77	Communication Malfunction between the main and secondary units
FH07	IDU lift panel communication failure/IDU opening and closing failure
FHCC	Refrigerant Sensor Error*
PC00	ODU IPM Module Protection
PC01	ODU Voltage Protection
PC02	Compressor To (or IPM Module Protection
PC03	Pressure Protection (Low or High Pressure)
PC04	Inverter Compressor Drive Error
PCOL	Low Ambient Temperate Protection
NOTE: The only.	e digital tube will display FC in the FORCED COOLING mode. FC is NOT an error code. *Applicable to the units with refrigerant sensors

Table 13 — Refrigerant Leak Detection Error Codes

EHC1	Refrigerant Sensor detects a leak
EHC5	Working condition of the refrigerant sensor is out of range and a leak is detected

If you receive one of the codes in Table 13, call a technician as soon as possible. No need to panic, the unit goes into TURBO mode until the error code clears. There is a "beeping" noise coming from the indoor unit, which is normal in this case.

For additional diagnostic information, refer to the Service Manual.

COMMON ISSUES

a repair company.

Table 14 — Common Issues

ISSUE	POSSIBLE CAUSE
Unit does not turn on when pressing ON/OFF .	The Unit has a 3-minute protection feature that prevents the unit from overloading. The unit cannot be restarted within three minutes of being turned off.
The unit changes from COOL/HEAT mode to FAN mode	The unit may change its setting to prevent frost from forming on the unit. Once the temperature increases, the unit starts operating in the previously selected mode again. The set temperature has been reached, at which point the unit turns off the compressor. The unit continues operating when the temperature fluctuates again.
The indoor unit emits white mist	In humid regions, a large temperature difference between the room's air and the conditioned air can cause white mist.
Both the indoor and outdoor units emit white mist	When the unit restarts in HEAT mode after defrosting, white mist may be emitted due to moisture generated from the defrosting process.
The indoor unit makes noises	A rushing air sound may occur when the louver resets its position. A squeaking sound may occur after running the unit in HEAT mode due to expansion and contraction of the unit's plastic parts.
	Low hissing sound during operation: This is normal and is caused by refrigerant gas flowing through both indoor and outdoor units.
Both the indoor unit and outdoor unit make noises	Low hissing sound when the system starts, has just stopped running, or is defrosting: This noise is normal and is caused by the refrigerant gas stopping or changing direction.
	Squeaking sound: Normal expansion and contraction of plastic and metal parts caused by temperature changes during operation can cause squeaking noises.
The outdoor unit makes noises	The unit makes different sounds based on its current operating mode.
Dust is emitted from either the indoor or outdoor unit	The unit may accumulate dust during extended periods of non-use, which emits when the unit is turned on. This can be mitigated by covering the unit during long periods of inactivity.
The unit emits a bad odor	The unit may absorb odors from the environment (such as furniture, cooking, cigarettes, etc.) which emit during operations.
	The unit's filters have become moldy and should be cleaned.
The fan of the outdoor unit does not operate	During operation, the fan speed is controlled to optimize product operation.
Operation is erratic, unpredictable, or unit is unresponsive	Interference from cell phone towers and remote boosters may cause the unit to malfunction. In this case, try the following: • Disconnect the power, then reconnect.
	Press ON/OFF on the remote control to restart operation.

NOTE: If problem persists, contact a local dealer or your nearest customer service center. Provide them with a detailed description of the unit malfunction as well as your model number.



Manufacturer reserves the right to change, at any time, specifications and designs without notice and without obligations.

Table 15 — Common Issues

PROBLEM	POSSIBLE CAUSES	SOLUTION
	Temperature setting may be higher than ambient room temperature	Lower the temperature setting
	The heat exchanger on the indoor or outdoor unit is dirty	Use Clean function by remote control to clean the affected heat exchanger
	The air filter is dirty	Remove the filter and clean it according to instructions
	The air inlet or outlet of either unit is blocked	Turn the unit off, remove the obstruction and turn it back on
Poor Cooling Performance	Doors and windows are open	Make sure that all doors and windows are closed while operating the unit
	Excessive heat is generated by sunlight	Close windows and curtains during periods of high heat or bright sunshine
	Too many sources of heat in the room (people, computers, electronics, etc.)	Reduce amount of heat sources
	Low refrigerant due to leak or long-term use	Check for leaks, re-seal if necessary and top off refrigerant
	SILENCE function is activated (optional function)	SILENCE function can lower product performance by reducing operating frequency. Turn off SILENCE function.
	Power failure	Wait for the power to be restored
	The power is turned off	Turn on the power
The unit is not working	The fuse is burned out	Call service center to replace the fuse
The drift is not working	Remote control batteries are dead	Replace batteries
	The Unit's 3-minute protection has been activated	Wait three minutes after restarting the unit
	Timer is activated	Turn timer off
	There's too much or too little refrigerant in the system	Call a service center to check for leaks and recharge the system with refrigerant.
The unit starts and stops frequently	Incompressible gas or moisture has entered the system.	Call a service center to evacuate and recharge the system with refrigerant
	The compressor is broken	Call a service center to replace the compressor
	The voltage is too high or too low	Install a manostat to regulate the voltage
	The outdoor temperature is extremely low	Use auxiliary heating device
Poor heating performance	Cold air is entering through doors and windows	Ensure all doors and windows are closed during use
Poor heating performance	Low refrigerant due to leak or long-term use	Call service center to check for leaks, re-seal if necessary and top off refrigerant
Indicator lamps continue flashing		
Error code appears and begins with the letters as the following in the window display of the indoor unit: E(x), P(x), F(x) EH(xx), EL(xx), EC(xx) PH(xx), PL(xx), PC(xx)	wait for about 10 minutes. The problem may resolve i	. If the indicator lamps continue to flash or error codes appear, itself. urn the unit on. If the problem persists, disconnect the power

NOTE: If your problem persists after performing the checks and diagnostics above, turn off your unit immediately and contact an authorized service center.

DUCTLESS START-UP CHECKLIST - Single Zone

			State:	Zip Code:	
lling Contract	or:			Contractor Contac	t#:()
Name:				Start-up Date:	
ibutor:					
tem Details	,				
	IITS	MODEL NO.		SERIAL NO.	CONTROLLER
	OR UNIT				
INDOO	R UNIT A				
ne outdoor unit	and indoor unit com	npatible?			YES: NO:_
		1			
ing Electri	cal				
Size and Type	Used? AWG:	TYPE:			
nere any breaks	s, splices, wire nuts o	or butt connectors between	n the outdoor unit an	d the indoor unit?	YES:NO:_
-	-	t to the correct indoor ur			YES:NO:
	•	to the correct major un			12510
age Check					
age Check	e		4// 4) 0)/5		
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ng: Single Zon Outdoor Unit	e	Outdoor Unit	1(L1):GND 2(L2):GND	NOTES:	
ng: Single Zon	e 1(L1):GND	Outdoor Unit Terminal Block	` '	NOTES:	
ng: Single Zon Outdoor Unit	1(L1):GND 2(L2):GND		2(L2):GND		
ng: Single Zon Outdoor Unit	1(L1):GND 2(L2):GND 1(L1):L2(2)		2(L2):GND 1(L1):2(L2)		
Outdoor Unit Disconnect	1(L1):GND 2(L2):GND 1(L1):L2(2) 1(L1):GND	Terminal Block Indoor Unit Voltage Check	2(L2):GND 1(L1):2(L2) 1(L1):GND		
Outdoor Unit Disconnect	1(L1):GND 2(L2):GND 1(L1):L2(2) 1(L1):GND 2(L2):GND	Terminal Block	2(L2):GND 1(L1):2(L2) 1(L1):GND 2(L2):GND		
Outdoor Unit Disconnect	1(L1):GND 2(L2):GND 1(L1):L2(2) 1(L1):GND 2(L2):GND 1(L1):2(L2)	Terminal Block Indoor Unit Voltage Check	2(L2):GND 1(L1):2(L2) 1(L1):GND 2(L2):GND 1(L1):2(L2)		
Outdoor Unit Disconnect	1(L1):GND 2(L2):GND 1(L1):L2(2) 1(L1):GND 2(L2):GND 1(L1):2(L2) 2(L2):3(S)	Terminal Block Indoor Unit Voltage Check	2(L2):GND 1(L1):2(L2) 1(L1):GND 2(L2):GND 1(L1):2(L2) 2(L2):3(S)		
Outdoor Unit Disconnect	1(L1):GND 2(L2):GND 1(L1):L2(2) 1(L1):GND 2(L2):GND 1(L1):2(L2) 2(L2):3(S)	Terminal Block Indoor Unit Voltage Check	2(L2):GND 1(L1):2(L2) 1(L1):GND 2(L2):GND 1(L1):2(L2) 2(L2):3(S)		
Outdoor Unit Disconnect Indoor Unit Voltage Check Outdoor Unit Outdoor Unit	1(L1):GND 2(L2):GND 1(L1):L2(2) 1(L1):GND 2(L2):GND 1(L1):2(L2) 2(L2):3(S)	Indoor Unit Voltage Check @ Indoor Unit Outdoor Unit	2(L2):GND 1(L1):2(L2) 1(L1):GND 2(L2):GND 1(L1):2(L2) 2(L2):3(S)	NOTES:	
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Outdoor Unit Disconnect Indoor Unit Voltage Check Outdoor Unit Outdoor Unit	1(L1):GND 2(L2):GND 1(L1):L2(2) 1(L1):GND 2(L2):GND 1(L1):2(L2) 2(L2):3(S)	Indoor Unit Voltage Check @ Indoor Unit Outdoor Unit	2(L2):GND 1(L1):2(L2) 1(L1):GND 2(L2):GND 1(L1):2(L2) 2(L2):3(S) 1(L1):GND 2(L2):GND	NOTES:	
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Outdoor Unit Disconnect Indoor Unit Voltage Check Outdoor Unit Outdoor Unit Disconnect	1(L1):GND 2(L2):GND 1(L1):L2(2) 1(L1):GND 2(L2):GND 1(L1):2(L2) 2(L2):3(S) 1(L1):GND 2(L2):GND 1(L1):GND	Indoor Unit Voltage Check @ Indoor Unit Outdoor Unit Terminal Block	2(L2):GND 1(L1):2(L2) 1(L1):GND 2(L2):GND 1(L1):2(L2) 2(L2):3(S) 1(L1):GND 2(L2):GND 1(L1):GND 1(L1):GND	NOTES:	

Ductless Start-Up Checklist (CONT)

D:	•		
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cuation Me	ethod:									
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as the Dee	p Vacuum Meth YES:	nod used as ou NO:	utlined in the	installation	SIII	gle Zone Pip		_		
id the ES:	System He			for 1	hour? Has	s the liquid pated? Size:	ipe length bed	en measured Length:	and the addi	tional charge ge:
oes the line	set match the d		e evaporator o	connec-						
NOTES:										
PORT	Charge Amour		suction	N SIZE	LENGTH	CHARGE	NOTES:			
Α										
forman	ce Check	ems: Adjust t	the set-point wing details:	to create ar	n operational ca	all for the des	ired testing o	peration. Allo	w the system	ı to run for a
forman For 1:1 Sin		ecord the follo	wing details:						w the system	ı to run for a
forman For 1:1 Sin	n gle Zone Syst f 10 min. and re	ecord the follo	wing details:						w the system	to run for a
forman For 1:1 Sin minimum of	ngle Zone Syst i 10 min. and re al data recorded	ecord the follo	wing details: le heads with	n the wireles	ss remote contr	roller's Point	Check functio	n)		
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