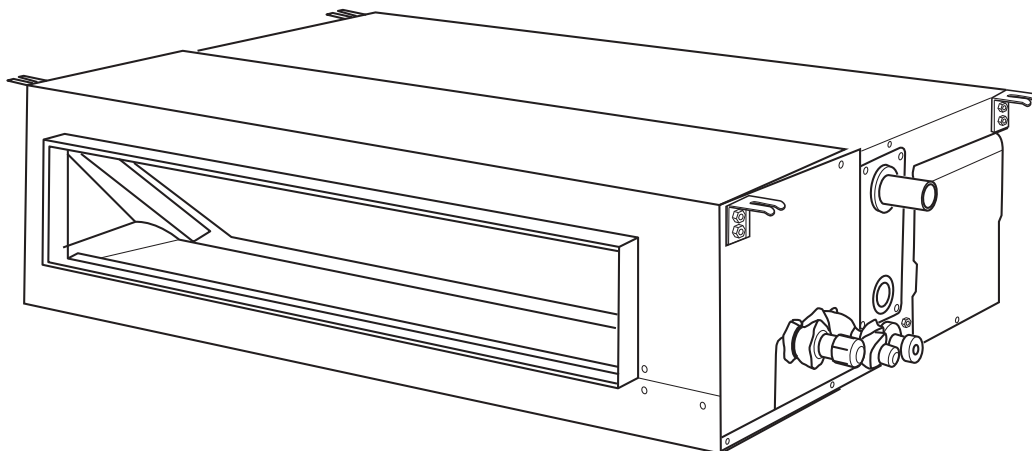


Installation Instructions

Medium Static Duct Indoor



Design may vary by model number.
This installation manual is only
printed in English. For French or
Spanish version, please visit
GEAppliancesairandwater.com

L'aspect peut varier selon le numéro de modèle.
Ce manuel d'installation est uniquement
imprimé en anglais. Pour la version française ou
espagnole, visitez le site
GEAppliancesairandwater.com

El diseño puede variar según el número
de model. Este manual de instalación sólo
fue impreso en inglés. Para acceder a la
versión en francés o español, por favor visite
GEAppliancesairandwater.com

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RECORD KEEPING

Thank you for purchasing this product. This installation manual will help you get the best performance from your new heat pump.

For future reference, record the model and serial number located on the label on the side of your air conditioner/heat pump, and the date of purchase.

Staple your proof of purchase to this manual to aid in obtaining warranty service if needed.

To register your new Duct Free System go to **GEAppliancesAirandWater.com/Warranty** and input the model/serial number information on this page. To receive a 10-year compressor and parts warranty, registration is required within 60 days of installation.

Model number

Serial number

Date of purchase



GE Appliances, Air and Water

IMPORTANT SAFETY INFORMATION

READ ALL INSTRUCTIONS BEFORE USING THE APPLIANCE

⚠ WARNING

For your safety; the information in this manual must be followed to minimize the risk of fire, electric shock, or personal injury.

- Use this equipment only for its intended purpose as described in this manual.
- This heat pump must be properly installed in accordance with these instructions before it is used.
- All wiring should be rated for the amperage value listed on the rating plate. Use only copper wiring.
- All electrical work must be completed by a qualified electrician and completed in accordance with local and national building codes.

For any service which requires entry into the refrigerant sealed system, Federal regulations require that the work is performed by a technician having a Class II or Universal certification.

- All air conditioners contain refrigerants, which under federal and/or local law must be removed prior to product disposal. If you are getting rid of an old product with refrigerants, check with the company handling disposal.
- These R454B heat pumps systems require that contractors and technicians use tools, equipment and safety standards approved for use with this refrigerant.
- DO NOT use equipment certified for R22, R32 or R410A refrigerant only.

⚠ WARNING

RISK OF ELECTRIC SHOCK. Could cause injury or death.

- An adequate ground is essential before connecting the power supply or charging with refrigerant.
- Disconnect all connected electric power supplies before servicing.
- Aluminum building wiring may present special problems - consult a qualified electrician.
- The surrounding conditions (ambient temperature, direct sunlight, and rainwater) shall be noticed during electrical wiring, with effective protective measures being taken.
- The dedicated branch circuit must be used, and leakage protector with sufficient capacity must be installed.
- Repair or replace immediately all electrical wiring that has become frayed or otherwise damaged. Do not use wiring that shows cracks or abrasion damage along its length or at either end.
- When the unit is in the STOP position, there is still voltage to the electrical controls.
- Copper wire cable in line with local standards shall be used as the power line and connector wire.
- Both the indoor unit and outdoor unit shall be reliably earthed.
- Wiring for the outdoor unit shall be made first and then the indoor unit. The air conditioner can only be powered on after wiring and pipe connection.

⚠ WARNING

RISK OF FIRE. Could cause injury or death.

- Do not store or use combustible materials, gasoline or other flammable vapors or liquids in the vicinity of this or any other appliance.

⚠ ATTENTION

- Please do not use extension cords in this system.
- Aluminum building wiring may have special problems, please consult a licensed electrician.
- If the unit has the leak detection system installed, the unit must be powered except for service.

READ AND SAVE THESE INSTRUCTIONS

IMPORTANT SAFETY INFORMATION

READ ALL INSTRUCTIONS BEFORE USING THE APPLIANCE

For more help, visit GEAppliancesairandwater.com

BEFORE YOU BEGIN

Read these instructions completely and carefully.

- **IMPORTANT** — Save these instructions for local inspector's use.
- **IMPORTANT** — Observe all governing codes and ordinances.
- **Note to installer** — Be sure to leave these instructions with the Consumer.
- **Note to consumer** — Keep these instructions for future reference.
- **Skill level** — A licensed certified technician (to handle refrigerant, recovery, etc) and a qualified electrician are required for installation and service of this split heat pump system.
- Use team lift for mounting the ducted unit.
- Proper installation is the responsibility of the installer.
- Product failure due to improper installation is not covered under the limited warranty.
- For personal safety, this system must be properly grounded.
- Protective devices (fuses or circuit breakers) acceptable for installation are specified on the nameplate of each unit.
- Make sure to minimize wiring or plumbing inside the wall when installing.

⚠ WARNING

- This product 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 product.
- Ensure that the unit shall be installed in accordance with local and national wiring codes.
- For the dimensions of the space necessary for correct installation of the appliance, including the minimum permissible distances to adjacent structures, refer to this document.
- Ensure only approved units are connected together and that all refrigerant line dimensions and refrigerant charging requirements are followed to prevent exceeding the maximum operating pressure.
- **ONLY** connect units that are labeled with the same refrigerant.
- Any damage of electrical supply must be replaced by the manufacturer, its service agent or similarly qualified persons in order to avoid a hazard.
- Means for disconnection must be incorporated in the fixed wiring in accordance with wiring rules. Disconnect ampere rating must be at least 115% of the Minimum Circuit Ampacity listed on the rating plate for this product. Disconnect must be installed within sight and readily accessible. Refer to local and national electric code for any additional requirements specified in your region of install.

Safety Awareness

1. **Procedures:** Operation shall be made as per controlled procedures to minimize the probability of risks.
2. **Area:** Area shall be divided and isolated appropriately, and operation in an enclosed space shall be avoided. Before the refrigeration system is started or energized, ventilation or opening of the area shall be guaranteed.
3. **Site inspection:** The refrigerant shall be checked.
4. **Fire control:** A fire extinguisher and a "No Smoking" sign shall be placed in the installation area during installation. The installation area shall remain free from fire/ignition sources during installation.

READ AND SAVE THESE INSTRUCTIONS

IMPORTANT SAFETY INFORMATION

READ ALL INSTRUCTIONS BEFORE USING THE APPLIANCE

Unpacking Inspection

Indoor unit: nitrogen is sealed during the delivery of indoor units (inside the evaporator), and the red sign at the top of the green plastic seal cap on the evaporator air pipes of the indoor unit shall be checked first after unpacking. In case the sign is raised, the nitrogen sealed still exists. Afterwards, the black plastic seal cap at the joint of evaporator liquid pipes of the indoor unit shall be pressed, to check whether nitrogen still exists. In case no nitrogen is released, ensure the indoor unit does not have a leak before continuing with installation.

Inspection on Installation Environment

1. Power supply, switches or other high-temperature articles such as the ignition source and oil heater shall be avoided below the indoor unit.
2. The power supply shall be provided with grounding wire and be reliably grounded.
3. User shall verify in advance whether water/electricity/gas pipelines are hidden in the wall in locations that may be punctured with an electric drill. It is recommended that the through-wall holes reserved shall be used as much as possible.

Safety Principles of Installation

1. Favorable ventilation shall be maintained at the place of installation (doors and windows are opened).
2. Open fire or high-temperature heat source (including welding, smoking and oven) higher than 548°F is not allowed within the scope of flammable refrigerant.
3. Anti-static measures shall be taken, such as the wearing of cotton clothes and cotton gloves.
4. The place of installation shall be convenient for installation or maintenance and cannot be adjacent to heat source and flammable and combustible environment.
5. In case of refrigerant leakage of the indoor unit during installation, the valve of the outdoor unit shall be closed immediately, and windows shall be opened, and all the personnel shall be evacuated. After the leakage of refrigerant is handled, the indoor environment shall be subject to concentration detection. Further handling is not allowed until the safety level is reached.
6. In case the product is damaged, it must be delivered to the maintenance point. Welding of refrigerant pipelines at the user's site is not allowed.
7. The installation position of air conditioner shall be convenient for installation or maintenance. Barriers shall be avoided around the air inlet/outlet of the indoor/outdoor unit, and the electrical appliance, power switches, sockets, valuables, and high-temperature products within the scope of both sidelines of the indoor unit shall be avoided.

⚠ CAUTION

- Refrigerant should be only added or removed by a licensed HVAC technician.
- Before adding additional refrigerant, perform air purging from the refrigerant pipes and indoor unit using a vacuum pump, then charge additional refrigerant.

READ AND SAVE THESE INSTRUCTIONS

REQUIREMENTS FOR OPERATION

Requirements for Operation, Service and Installation of Appliances Using Flammable Refrigerants

⚠ WARNING

- 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.



Warning; Flammable Materials, Refrigerant class per ISO 817



Owner's Manual; Operating Instructions



Read Owner's Manual



Service Indicator; Read Technical Manual

General

- During installation, due to the extended refrigerant pipes, additional **REFRIGERANT** may be charged. Please complete the **REFRIGERANT** label provided in the manual, and securely paste it near the appliance marking.
- Handling, installation, cleaning, servicing and disposal of refrigerant must comply with the local regulation and the instruction.
- Servicing shall be performed only as recommended by the manufacturer.
- Spaces where refrigerant pipes are allowed shall comply with the below requirement:
 - that 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 the installation of pipe-work shall be kept to a minimum.
 - that mechanical connections made at joints that made in the installation between parts of the refrigerating system in shall be accessible for maintenance purposes.
 - that protection devices, piping, and fittings shall be protected as far as possible against adverse environmental effects, 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 precautions shall be taken to avoid excessive vibration or pulsation.

REQUIREMENTS FOR OPERATION

Requirements for Operation, Service and Installation of Appliances Using Flammable Refrigerants

General (cont.)

- that 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:
 - 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.
 - The test pressure after removal of pressure source shall be maintained for at least 1 hour with no decrease of pressure indicated by the test gauge, with test gauge resolution not exceeding 5% of the test pressure.
 - 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.
- that 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.

Qualification of workers

The manual shall contain specific information about the required qualification of the working personnel for maintenance, service and repair operations. Every working procedure that affects safety means shall only be carried out by competent persons.

Examples for such working procedures are:

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

The competent persons are trained by the national training organizations or manufacturers that are accredited to teach the relevant national competency standards that may be set in legislation. The achieved competence should be documented by a certificate.

Information on servicing

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 below requirement shall be completed prior to conducting work on the system:

- Work shall be undertaken under a controlled procedure so as to minimise the risk of a flammable gas or vapor being present while the work is being performed.
- 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.
- The area shall be checked with an appropriate refrigerant detector prior to and during work, to ensure the technician is aware of potentially toxic or flammable atmospheres. Ensure that the leak detection equipment being used is suitable for use with all applicable refrigerants, i. e. non-sparking, adequately sealed or intrinsically safe.
- If any hot work is to be conducted on the refrigerating equipment or any associated parts, appropriate fire extinguishing equipment shall be available to hand. Have a dry powder or CO2 fire extinguisher adjacent to the charging area.

REQUIREMENTS FOR OPERATION

Requirements for Operation, Service and Installation of Appliances Using Flammable Refrigerants

Information on servicing (cont.)

- 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.
- Ensure that the area is in the open or that it is adequately ventilated before breaking into the system or conducting any hot work. A degree of ventilation 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.
- 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**:
 - marking to the equipment continues to be visible and legible. Markings and signs that are illegible shall be corrected;
 - refrigerating 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.
- 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, an 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 no live electrical components and wiring are exposed while charging, recovering or purging the system;
 - that there is continuity of earth bonding.

Repairs to sealed components, intrinsically safe components

- Sealed electrical components shall be replaced.
- Intrinsically safe components must be replaced.
- Replace components only with parts specified by the manufacturer. Other parts may result in the ignition of refrigerant in the atmosphere from a leak.

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.

REQUIREMENTS FOR OPERATION

Requirements for Operation, Service and Installation of Appliances Using Flammable Refrigerants

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 all 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 pipe-work.
- 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 off valves) in a part of the system remote from the leak. Removal of refrigerant shall be according to the manual.

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:
 - a) safely remove refrigerant following local and national regulations;
 - b) purge the circuit with inert gas;
 - c) open the circuit by cutting or brazing.
- 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.

Charging procedures

- In addition to conventional charging procedures, the following requirements shall be followed.
- Ensure that contamination of different refrigerants does not occur when using charging equipment. Hoses or lines shall be as short as possible to minimise the amount of refrigerant contained in them.
- Cylinders shall be kept in an appropriate position according to the instructions.
- Ensure that the **REFRIGERATING 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 **REFRIGERATING SYSTEM**.
- Prior to recharging the system, it shall be pressure-tested with the appropriate purging gas. 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.

REQUIREMENTS FOR OPERATION

Requirements for Operation, Service and Installation of Appliances Using Flammable Refrigerants

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) Make sure that 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.
 - k) Recovered refrigerant shall not be charged into another **REFRIGERATING SYSTEM** unless it has been cleaned and checked.

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**.

REQUIREMENTS FOR OPERATION

Requirements for Operation, Service and Installation of Appliances Using Flammable Refrigerants

Recovery

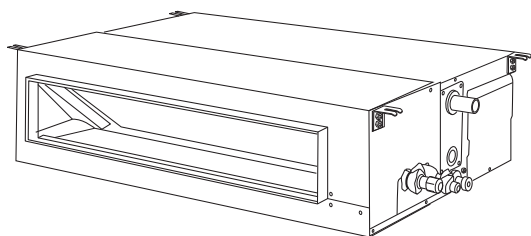
- When removing refrigerant from a system, either for servicing or decommissioning, it is recommended good practice that all refrigerants are removed safely.
- When transferring refrigerant into cylinders, ensure that only appropriate refrigerant recovery cylinders are employed. Ensure that the correct number of cylinders for holding the total system charge is available. All cylinders to be used are designated for the recovered refrigerant and labelled 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 that is at 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 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 evacuation process shall be carried out prior to returning the compressor to the suppliers. Only electric heating to the compressor body shall be employed to accelerate this process. When oil is drained from a system, it shall be carried out safely.

Installation Instructions: List of Materials

Required Tools for Installation

- 17mm, 22mm, 26mm or Adjustable Wrench
- #2 Phillips Screwdriver
- Drill
- R454B Approved Flaring Tool
- Hex Wrench
- Hole Saw 2 1/4"
- Level
- Manifold Gauge
- Measuring Tape
- Micron Gauge
- Mini-Split Adapter (5/16"F to 1/4"M)
- Nitrogen (consumable)
- Pipe Cutter
- Razor Knife
- Reamer
- Sealant, non-expanding (for line set opening)
- HVAC leak solution or refrigerant leak detector
- Stud Finder
- Torque Wrench and Back-up Wrench
- Vacuum Pump
- Wire Strippers
- Refrigerant Scale
- Usual and customary HVAC hand tools
- Dual Port Manometer
- Tachometer/Anemometer
- Thermo-coupler

Parts Included



Accessory Name	Quantity
Flare nut for liquid tube	1
Flare nut for suction tube	1
Insulated tube (liquid line)	1
Insulated tube (suction line)	1
Outside Air Damper Wire Harness	1
Drain hose	1
Cable tie	8

Supplied by Installer

Refrigerant Port Sizes		
Model	Liquid (inch)	Vapor (inch)
US07MB2BEA/US09MB2BEA	1/4	3/8
US12MB2BEA	1/4	3/8
US18MB2BEA	1/4	1/2
US24MB2BEA	3/8	5/8
US24MB2BEA	3/8	5/8
US30MB2BEA	3/8	3/4
US36MB2BEA	3/8	3/4
US42MB2BEA	3/8	3/4
US48MB2BEA	3/8	3/4

Refrigerant Line Set: for sizing please refer to the Outdoor Unit Rating Plate.

- Refrigerant Line Insulation
- 14/4 AWG SOOW Non-Shielded Stranded Copper Cable
- 1-1/4" PVC for condensate
- Insulation for condensate drain
- 3/8" threaded rod, washers and nuts
- R454B Refrigerant
- 16/2 AWG Shielded SOOW Cable for high speed communication

NOTE: A factory wired controller is required as per specifications and must be ordered separately.

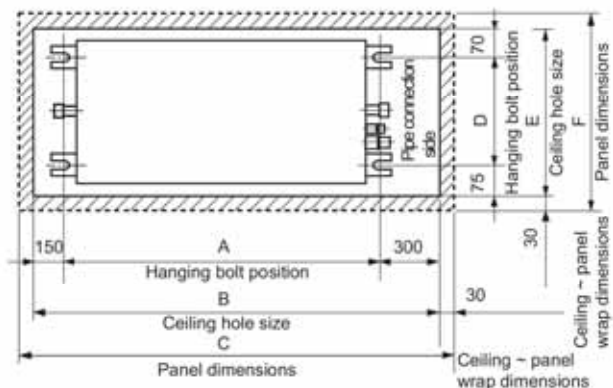
Installation Instructions: Introduction and Overview

Ducted Product Information

The Ducted unit will install above the ceiling or in a soffit area. It is mounted using threaded rods that fit into brackets that are located at all four top corners of the cabinet.

Each unit has a built-in condensate pump and a float switch to avoid an overflow situation and to maintain reliable operation. An insulated condensate fitting is included in the accessory pouch. This fitting connects the condensate drain outlet of the unit to the field-supplied drain piping.

When making refrigerant line connections, always use the flare nuts provided with this equipment. Refrigerant line connections should be wrapped with insulating tape at the unit to prevent sweating.



Model	A in (mm)	B in (mm)	C in (mm)	D in (mm)	E in (mm)	F in (mm)
US07MB2	30 (762)	47.7 (1212)	50 (1272)	24.4 (620)	30.1 (765)	32.5 (825)
US09MB2						
US12MB2						
US18MB2	45.7 (1162)	63.5 (1612)	65.8 (1672)			
US24MB2						
US24MB2						
US30MB2	61.5 (1562)	79.2 (2012)	81.57 (2072)			
US36MB2						
US42MB2						
US48MB2						

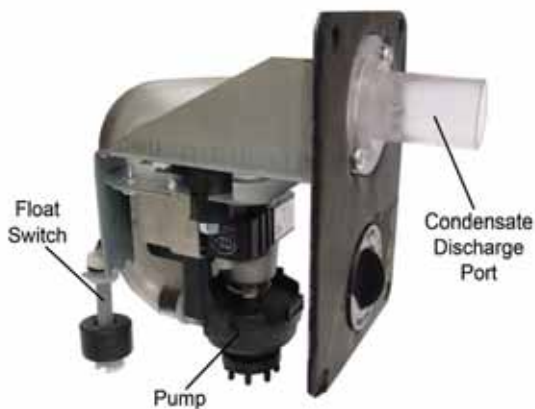
Installation Instructions: Introduction and Overview

Condensate Handling

The Ducted unit has a built-in condensate pump and high water level safety switch. There are also two optional ports for gravity drainage.

The condensate pump is rated to lift water up to 27" from the point of discharge on the Ducted unit.

The Ducted unit comes with a grey connection hose and clamp. This hose is connected to the condensate discharge hose port. The other end of the hose is sized to accept 3/4 inch PVC piping.



Note: Recommended pump flow rate is 0.132 gpm to 0.185 gpm. Refer to specification guide for recommended drainage configurations.

Electrical Power

Follow all local codes and regulations when installing electrical wiring.

Route required electrical power to area where the Ducted unit is to be located. Maintain at least a 10 foot separation between TV, radio, or any communication wiring and the power to the indoor unit.

14/4 AWG SOOW non-shielded stranded copper cable should be used to make the electrical connection and communication link between indoor and outdoor units.

16/2 AWG Shielded SOOW Cable should be used for high speed communication on H1 and H2 terminals. Note: In applications with multiple indoor units, only connect one indoor unit to the outdoor unit with the high speed communication cable. It is recommended to connect the indoor unit that is closest to the outdoor unit.

The wiring is connected at the indoor unit electrical terminal blocks screws 1(L1), 2(L2), 3(C). Ground wire must be connected to the metal chassis of the indoor unit. There should be no splices in wires 1, 3, and Ground between the indoor and outdoor units, as these serve as communication signal wires and electrical power connections. Any accessory added to shut off power to the indoor units should break the Number 2 terminal only.



Installation Instructions

MINIMUM CLEARANCES AND DIMENSIONS (Appearance may vary)

Air Delivery Clearances

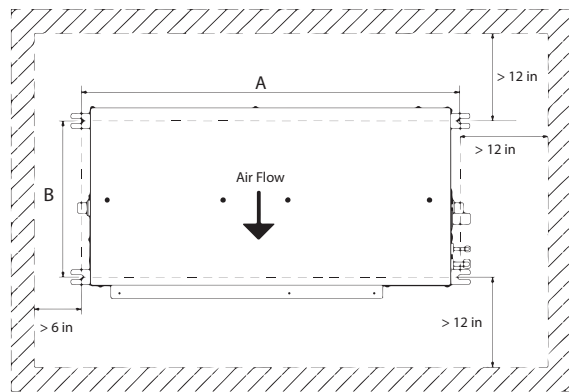
Make certain to maintain proper clearances around the Ducted unit.

Inadequate clearances can cause system operation and temperature control problems.

Service and Maintenance Clearances

Make sure there are adequate clearances for future maintenance and service. Allow enough room to access the condensate pump assembly and the electrical control box.

This picture is for reference only. Your product may look different.



Model	A- in (mm)	B- in (mm)
US07MB2BEA	30 (762)	24 3/8 (620)
US09MB2BEA		
US12MB2BEA		
US18MB2BEA	45 11/16 (1162)	
US24MB2BEA		
US30MB2BEA	61 1/2 (1562)	
US36MB2BEA		
US42MB2BEA		
US48MB2BEA		

Installation Instructions

Step 1 - Preparation

A. Before installing the indoor unit, determine minimum room size.

Refer to the outdoor unit installation instructions for calculating the total refrigerant charge. Measure the area of the space that will be conditioned by the indoor unit, and refer to the below table :

Ducted Indoor Unit with Refrigerant Leak Sensor Factory-Installed													
Maximum Refrigerant Charge	lbs	≤3.9	4.0	4.5	5.0	5.5	6.0	6.5	7.0	7.5	8.0	8.5	9.0
	oz	≤62.4	64	72	80	88	96	104	112	120	128	136	144
Minimum Room Size - Single Zone Outdoor Unit	ft²	No restriction	60	68	75	83	90	98	105	113	120	128	135

Installation in rooms smaller than the minimum sizes listed above are not allowed based on the standard of UL60335-2-40 Edition 4¹.

1: UL60335-2-40 Edition 4 has been adopted by majority of state and local codes. A limited number of local and state codes may require compliance to UL 60335-2-40 Edition 3. Please refer to our website at **GEAppliancesAirandWater.com** for guidance on installations in those localities.

Note: Additional room area may be needed for different installation altitudes. Please use **Altitude Adjustment Factor** table below by multiplying minimum room size by the altitude adjustment factor based on install altitude.

Altitude Adjustment Factor

Altitude (m)	0	200	400	600	800	1000	1200	1400	1600
Altitude (ft)	0	660	1310	1970	2620	3280	3940	4590	5250
Adj. Factor	1	1	1	1	1.02	1.05	1.04	1.1	1.12
Altitude (m)	1600	1800	2000	2200	2400	2600	2800	3000	3200
Altitude (ft)	5250	5910	6560	7220	7870	8530	9190	9810	10500
Adj. Factor	1.12	1.15	1.18	1.21	1.25	1.28	1.32	1.36	1.4

B. Procedure for selecting the location:

- Place above the ceiling or in soffit area where you have enough space to position the unit.
- Place where the drainage pipe can be properly positioned.
- Place where the inlet and outlet air of the indoor unit will not be blocked.
- Do not install the unit in a place with heavy oil or moisture (e.g. - kitchens and workshops).
- Do not install in a location with destructive gas (such as sulfuric acid gas) or pungent gas (thinner and gasoline) are used or stored.
- Mount to a structure that can safely support the weight of the unit, accessories, ducting and a full water reservoir.
- Mounting location should be solid enough to dampen the vibration and operational noise of the unit.
- Mount the unit in a location which will not adversely affect occupants, building components, or valuable possessions.
- Leave enough space for maintenance.
- Install at least 3 ft. away from sources that may create electronic interference.

NOTES:

- R-454B refrigerant is a mildly flammable refrigerant. If there is a concern about refrigerant concentration in the case of leakage, add extra ventilation.
- Reference local building codes for ceiling mounted equipment and earthquake safety standards (this unit is not designed for or certified against OSHPD Seismic Compliance and Safety standards).

Installation Instructions

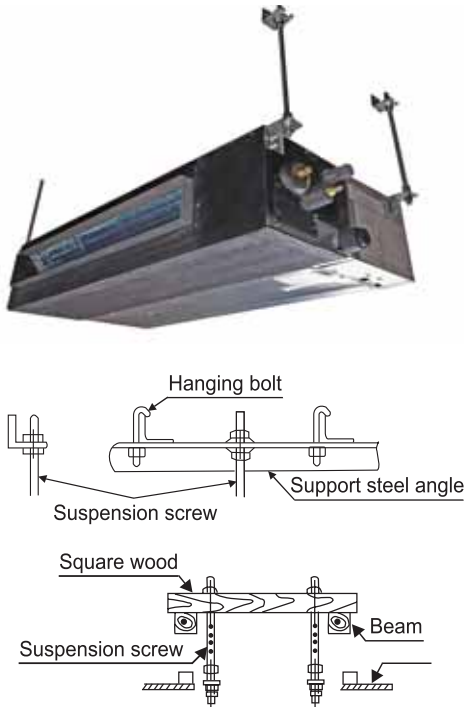
Step 1 - Preparation (cont)

C. Unit Hanging Information:

The Ducted unit should be mounted to the building structure using threaded rods. Use the installation template that is printed on the shipping carton. The threaded rods should have washers and nuts to allow the height and level of the unit to be adjusted.

The threaded rods and attachment hardware are field supplied items. The materials required for mounting include:

- 4- 3/8" Threaded Rods
- 4- Mounting Brackets
- Washers
- Nuts (in pairs, as shown in step 2C)
- Installation mounting template



Step 2 - Mounting the Unit

- A. Determine location and use the template (shipped in the box) to mark the location of threaded rods. Install the hardware necessary to mount the threaded rods. Always select a location strong enough to support the entire weight.



Step 2 - Mounting the Unit (cont)

- B. Install threaded rods to the hardware attached to the structure.



- C. Lift the Ducted unit and position the threaded rods into the four mounting foot on each corner.



- D. Using a level, adjust the readings on the threaded rods to obtain level readings both side to side and front to back.



- E. Ream both inside and outside of the refrigerant tubing where a cut has been made. Use every precaution to ensure reamed copper chips not to lodge inside the tubing. Install the factory-supplied flare nuts on the refrigerant tubing using an R-454B flaring tool ONLY. Apply a small amount of refrigerant oil to the back of the flare and threads.

Installation Instructions

Step 2 - Mounting the Unit (Cont.)

E. Cont.

Tighten the flares with a torque wrench and back-up wrench as defined by the table below.

Forced fastening without careful centering will damage the threads and cause a refrigerant leak.

Pipe Diameter (ø)	Fastening torque
1/4"	18N.m/13.3Ft.lbs
3/8"	42N.m/30.1Ft.lbs
1/2"	55N.m/40.6Ft.lbs
5/8"	75 N.m/55.3 Ft.lbs
3/4"	115 N.m/84.8 Ft.lbs



F. Connect the grey flexible drain hose supplied to the condensate pump discharge pipe. Tighten the clamp securely. Using 3/4" PVC (not provided), connect the flexible hose to the building's condensate drain system.



G. Route the 14/4 AWG SOOW Non-Shielded Stranded Copper Cable and the wired remote cable to the air handler. If this indoor unit is using the high-speed communication



circuit from the ODU, route the 16/2 AWG stranded shielded SOOW cable to the air handler as well. Be sure to secure wire using strain relief. Use reducing washers and appropriate connector to attach the power/communication cable to the unit. The wired remote cable will enter the unit through a rubber grommet. The 4 conductor cable connects to the terminal block at terminals 1(L1), 2(L2), 3(C). Ground wire must be connected to the metal chassis of the indoor unit. The wired remote cable connects to the air handler main board at connector CN7 (X and Y terminals). Re-install electrical box cover.

H. External Static Pressure Setting

Using Wired Controller

Wired controller- QACT17B/GACT17B settings

1. After backlight is lit at the wired controller off, press and hold **FAN** and **TEMP +** button for 10 seconds.
2. The static pressure selection will appear in the upper right hand corner.
3. The parameter value of ESP grades can be adjusted by pressing **TEMP+** or **TEMP-** buttons.
4. Press **FAN** button to confirm the change.

ESP Level (ESP grade)	External Static Pressure	
	US07-36MB2B**	US42-48MB2B**
1	0.10 in WC.	0.12 in WC.
2	0.15 in WC.	0.20 in WC.
3	0.20 in WC.	0.28 in WC.
4	0.28 in WC.	0.32 in WC.
5	0.36 in WC.	0.36 in WC.
6	0.40 in WC.	0.40 in WC.
7	0.44 in WC.	0.44 in WC.
8	0.48 in WC.	0.48 in WC.
9	0.52 in WC.	0.52 in WC.
10	0.60 in WC.	0.60 in WC.

Use the Up and Down Arrow buttons to adjust the static pressure level numbers. Then press the Set button to confirm.

NOTES:

- Professional installation technicians are required to evaluate or calculate the static pressure of the air duct.
- Select the appropriate ESP grade based on the calculated or evaluated static pressure.
- Choosing the right ESP grade is very important for the stable operation of the unit.
- Under different ESP grade, the RPM of the internal fan is different.
- The factory default ESP grade is 2.

Installation Instructions

Step 2 - Mounting the Unit (Cont.)

I. DIP Switch Settings

The DIP switch bank on the PCB need to be checked. Need to make sure all switches are in the correct position including a field-supplied external static pressure setting per the table below.

SW3_1	Left-right swing	[1]	ON	Left and right swing with 2 motor		Factory default setting: ON
			OFF	Left and right swing with 1 motor		
SW3_1*	Special fresh Air (Canada particular Area)	[2]	ON	Special Fresh Air function valid		Factory default setting: OFF
			OFF	Special fresh Air funtion invalid		
SW3_2	Model selection	[3]	[4]	Model		
		0	0			
		0	1			
		1	0			
SW3_3*		1	1			
SW3_3*	Auxiliary heater	[5]	ON	Auxiliary heater Function valid		Factory default setting: OFF
			OFF	Auxiliary heater Function invalid		
SW3_4	Slim duct or MESP DUCT	[6]	ON	MESP DUCT (10 ESP level)		Factory default setting: According to model
			OFF	Slim DUCT (10 ESP level)		
SW3_5 SW3_6 SW3_7 SW3_8	IDU address for wired controller group Control application	[7]	[8]	[9]	[10]	IDU Address
		OFF	OFF	OFF	OFF	0# (main) (Factory default setting)
		OFF	OFF	OFF	ON	1# (subordinate)
		OFF	OFF	ON	OFF	2# (subordinate)
		OFF	OFF	ON	ON	3# (subordinate)
		OFF	ON	OFF	OFF	4# (subordinate)
		OFF	ON	OFF	ON	5# (subordinate)
		OFF	ON	ON	OFF	6# (subordinate)
		OFF	ON	ON	ON	7# (subordinate)
		ON	OFF	OFF	OFF	8# (subordinate)
		ON	OFF	OFF	ON	9# (subordinate)
		ON	OFF	ON	OFF	10# (subordinate)
		ON	OFF	ON	ON	11# (subordinate)
		ON	ON	OFF	OFF	12# (subordinate)
		ON	ON	OFF	ON	13# (subordinate)
		ON	ON	ON	OFF	14# (subordinate)
		ON	ON	ON	ON	15# (subordinate)
SW1_1 SW1_2 SW1_3	Capacity	[1]	[2]	[3]	Capacity	
		OFF	OFF	OFF	9000BTU/h	
		ON	OFF	OFF	12000BTU/h	
		OFF	ON	OFF	18000BTU/h	
		ON	ON	OFF	24000BTU/h	
		OFF	OFF	ON	30000BTU/h	
		ON	OFF	ON	36000BTU/h	
		OFF	ON	ON	42000BTU/h	
ON	ON	ON	48000BTU/h			
SW1_4	Room card	OFF			Room card invalid (factory default)	
		ON				
SW1_5	With refrigerant detector or not	OFF			The refrigerant detector function is valid	
		ON			The refrigerant detector function is invalid	
SW1_6	Fresh air/E.A.O	OFF			Fresh air valid (factory default)	
		ON			External alarm output valid	
SW1_7	Filter change notice / IDU fan behavior when cooling set	OFF			No Filter change notice / fan stop when set temp reached (factory default)	
		ON			Filter change notice / fan stays on when set temp reached	
SW1_8	North America/NON- North America	OFF			North America area (USA & Canada) (factory default)	
		ON			NON-North America	

Installation Instructions

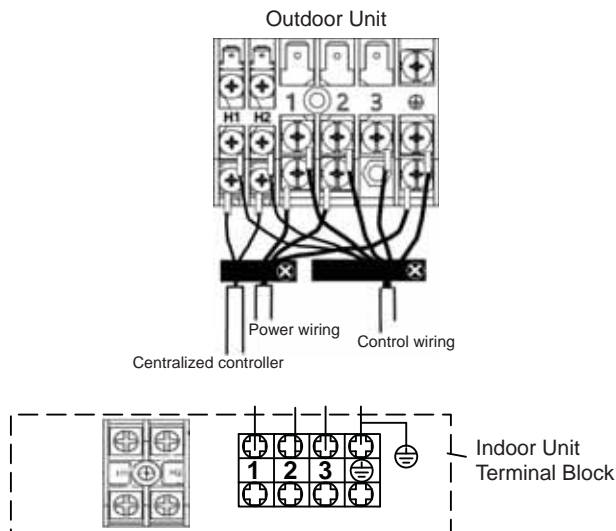
Step 3 - Electrical Connections

Electrical Connections Indoor and Outdoor Units

- 14/4 AWG SOOW non-shielded stranded copper cable for power and main communication line.
- 16/2 AWG Shielded SOOW Cable should be used for high speed communication on H1 and H2 terminals. Note: In applications with multiple indoor units, only connect one indoor unit to the outdoor unit with the high speed communication cable. It is recommended to connect the indoor unit that is closest to the outdoor unit.
- Maintain 10 feet of distance from TV, radio or any communication wiring.

NOTE: If cable connecting Indoor & Outdoor unit > 180ft (55m), the Indoor unit ground wire should be separated from the cable.

NOTE: See the Wired Controller Operation and Installation Manual for more information.



NOTE: Must connect ground to the provided screw on the chassis, not the ground screw of the terminal block.

NOTE: Failure to follow the wiring guidelines can result in control board damage and communication issues (E7 error code). This includes improper wire size, use of solid core wire, midline splicing and poor terminal connections.

Step 4 - Leak Testing, Evacuation and Wifi

Refer to the outdoor section Installation Manual for the recommended procedure.

Wifi Pairing

1. Download the "SmartHQ" app from Google Play (Android) or the Apple app store (IOS).

After downloading the App:

2. Open the app.
3. Select "Sign In".
4. Sign into your account or register as a new user.
5. Select the "+" icon to add a new device and follow the directions in the app.



Software Notice

To ensure product is functioning optimally and with the latest feature set, connect AC unit to WiFi and update with latest software. Refer to Owner's Manual on how to connect WiFi.

Installation Instructions

Optional Control Functions

The air handler supports the ability to (1) activate or deactivate auxiliary ducted heaters (by others) and to (2) activate or deactivate external air dampers (by others) for drawing in outside air.

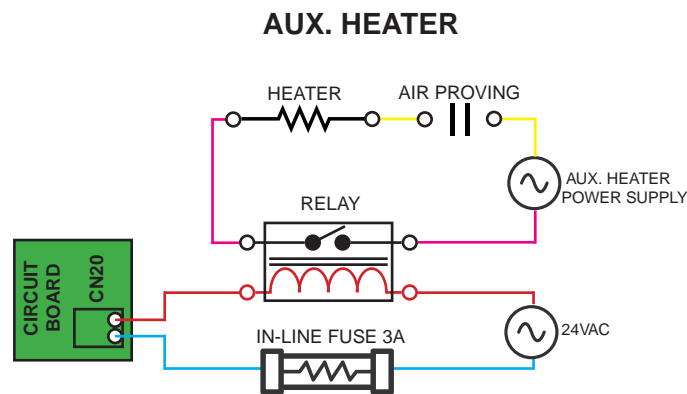
1) Auxiliary Heater Interface Instructions

Auxiliary ducted heaters should be sized to fit the supply plenum and avoid bypass air connections. Install heater as per manufacturers recommendations. To control the operation of the auxiliary heaters with the air handler, use this procedure to interface the two systems:

- Enable the function by setting the Duct unit **SW3_3 dip** switch to ON.
- Route the power to the auxiliary heater through a third party 24VAC relay normally-open contacts rated for the amp draw and voltage of the heater. Interrupt power to the Relay coil with the dry contacts on the board's **CN20** plug (Maximum 240VAC 3Amp). See the schematic below for reference.

WARNING: It is recommended to use the wired controller to set the Duct Static pressure and to ensure adequate airflow for the total heat load (see section H above). Failure to do this may overheat auxiliary heaters.

NOTE: Use of a Differential Air Pressure switch for air flow proving with normally open contacts to interrupt supply power to the Auxiliary heater is recommended in the event of a fan failure.



The **CN20** contacts will OPEN under any of the following conditions:

1. Set point is achieved.
2. Temperature exceeds 26°C/78.7°F.
3. The indoor unit fan motor stops.
4. The mode is changed from Heat Mode.
5. The Indoor Coil sensor exceeds 45°C/113°F.
6. SW3_3 is set to off.

The **CN20** dry contacts will only CLOSE if all of these conditions are met:

1. The unit has called for the fan to operate.
2. The indoor temperature is 3.6°F/2°C less than the controller set point.
3. The outdoor unit has been running for 1 min or more without reaching set point.
4. The room temperature is less than 77°F / 25°C.
5. The DIP switch SW3_3 is set to ON.
6. The system is running in heat mode or AUTO heat mode.
7. The indoor unit gas pipe sensor is less than 113°F / 45°C.

Installation Instructions

Optional Control Functions

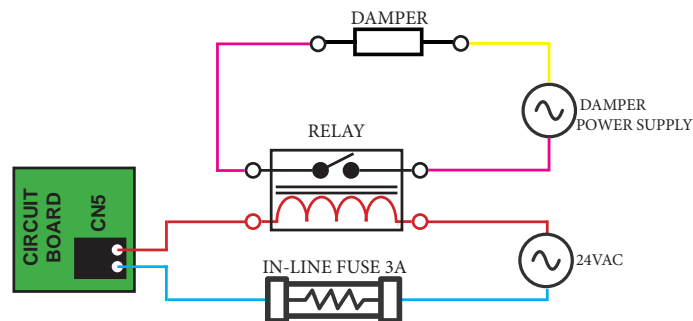
2) Outside Air Damper Interface Instructions

Source a 4" diameter normally closed damper by others to regulate the supply of outdoor air. Install damper as per manufacturers recommendations. To control the operation of the outdoor air damper with the air handler, use this procedure to interface the two systems:

- Enable the function by setting the Duct unit SW1_6 dip switch to OFF.
- There is a 4" round (plastic) flange on the side of the air handler available for Outdoor Air inlet. Remove the flange and center knock-out, rotate flange 180° and replace.
- Connect 4" round damper/duct to Air Handler Flange.
- Route the power supply to the Damper through a third party 24VAC relay dry contacts rated for the Damper amp draw and voltage. Interrupt power to the relay coil with the dry contacts on the board **CN5** connector using the provided connector leads (Maximum 240VAC 3Amp). See schematic below for reference.

NOTE: For continuous fan mode operation, SW3_1 should be set to ON and the SW1_6 should be OFF.

OUTSIDE AIR DAMPER



The **CN5** contacts will OPEN under any of the following conditions:

1. The DIP switch SW1_6 is set to ON.
2. The fan turns off.
3. The fresh air command is disabled by the I.R. controller/wired controller.
4. The unit is disabled or turned off.

The **CN5** dry contacts will only CLOSE if all of these conditions are met:

1. The unit has called for the fan to operate.
2. The DIP switch SW1_6 is set to OFF.
3. Fresh air command is enabled by the I.R. Controller/ Wired controller.

Installation Instructions

Final Check

Start Up Checklist

- ☐ Refrigerant charge is verified and system has been leak tested
- ☐ Line sets have been insulated
- ☐ Electrical connections are secure
- ☐ Electrical ground has been checked and verified
- ☐ Electrical wiring terminals match at indoor and outdoor unit
- ☐ Wire between outdoor and indoor must be 14/4 AWG SOOW Non-Shielded Stranded Copper Cable for power and main communication cable
- ☐ Wire between outdoor and indoor must be 16/2 AWG Shielded SOOW Cable for high speed communication if unit is primary indoor unit
- ☐ Outdoor to indoor wires 1, 3, and Ground are free of splices
- ☐ Condensate drain has correct pitch and has been leak tested insulated to avoid condensate.
- ☐ Verify 100% pump reservoir drains to avoid risks of leaks.
- ☐ Check reservoir for any contaminants from installation that could promote bacteria growth
- ☐ Indoor and outdoor units are compatible
- ☐ Indoor and outdoor units are firmly mounted
- ☐ Power source voltage is within +/- 10% tolerances
- ☐ The indoor and outdoor sections are quiet and free of vibration
- ☐ All functions of the controller have been verified
- ☐ Operation in cooling or heating modes is normal (see sequence of operation in service manual)
- ☐ Operation of the system has been explained to the owner
- ☐ Indoor unit capacity check has been completed

Verify Refrigerant Leak Sensor Function

When a refrigerant leak or other leak sensor related error is detected, the indoor fan will turn on at high speed, and the compressor on the outdoor unit will turn off. These functions can be verified by temporarily disconnecting the leak sensor from the indoor unit and waiting up to 30 seconds for the system response. The leak sensor connects to connector CN3 on the indoor PCB (see section C for reference). When the system is powered on and the leak sensor is disconnected, the indoor unit should display "Ac," turn on the fan at high speed, and turn the compressor in the outdoor unit off. When the system is powered off, the leak sensor is disconnected, and the system is powered on, the indoor unit should display "bA," turn on the fan at high speed, and turn the compressor on the outdoor unit off.

Explaining Operation to the End User

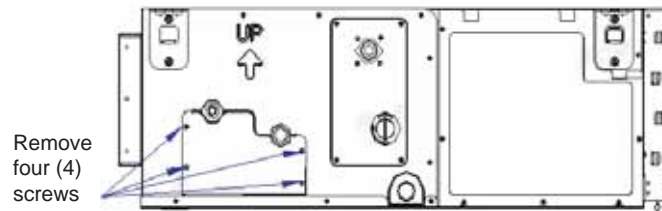
- ☐ Using the User Manual, explain to the user how to use the air conditioner/heat pump:
 - the wired controller
 - adding/removing the air filters
 - placing or removing the wired controller from the wired control holder
 - cleaning methods
 - precautions for operation, etc
- ☐ Review precautions for operation.
- ☐ Recommend that the user read the Operating Instructions carefully.
- ☐ Leave this manual with the end user - that way future service techs can verify these steps were completed if they have problems

Service Tech: _____	Phone number: _____	Date: _____
Service Tech: _____	Phone number: _____	Date: _____
Service Tech: _____	Phone number: _____	Date: _____
Service Tech: _____	Phone number: _____	Date: _____

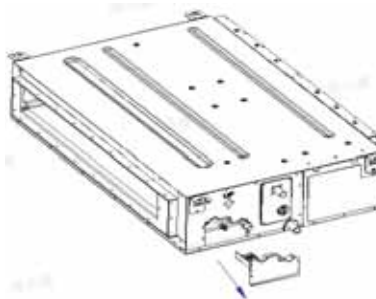
Installation Instructions

Refrigerant Leak Sensor Replacement Instructions

Step 1: Remove these four (4) screws from inspection port.



Step 2: Tilt 45 degrees to open the inspection port. Press the locking tab on the leak sensor connector to remove the wire. Remove the two screws to disconnect and remove the leak sensor.



Step 3: Follow Step 2 in reverse to re-install the leak sensor.

GE Appliances Ductless HVAC Limited Warranty

GEAppliances.com. Please save your receipt showing the date of original purchase and the date of installation.

For the product models listed on Attachment 1 (the "Product"), this Standard Limited Warranty is provided to the Original Owner of the Product:

For The Period Of:	GE Appliances Will Replace:
1 Year <u>Remote Controller Warranty</u> From the date of the original installation	If the Remote Controller proves to be defective due to improper workmanship and/or material for a period of one (1) year from the date of installation , GE Appliances, A Haier Company ("Haier") will provide a new or refurbished controller, at Haier's sole discretion.
5 year <u>Limited Parts Warranty</u> From the date of the original installation	If any parts should prove to be defective due to improper workmanship and/or material for a period of five (5) years from the date of installation , Haier will replace any defective parts without charge for the part. Parts used for replacement may be new or refurbished parts, determined at Haier's sole discretion, and provided to your licensed HVAC technician installer.
10 Year <u>Registered Limited Parts Warranty</u> From the date of the original installation (ONLINE REGISTRATION REQUIRED at GEAppliances.com) MUST BE A RESIDENTIAL SINGLE-FAMILY HOME	If any of the parts should prove defective due to improper workmanship and/or material for a period of ten (10) years from the date of installation , Haier will replace any defective parts without charge for the part. The replacement part is warranted for the remainder of the original ten (10) year warranty period. Parts used for replacement may be new or refurbished parts, determined at Haier's sole discretion, and provided to your licensed HVAC technician installer. This Registered Limited Parts Warranty requires online registration within sixty (60) days from the original date of installation or occupancy. NON-RESIDENTIAL/COMMERCIAL APPLICATIONS ARE NOT ELIGIBLE FOR THIS REGISTERED LIMITED PARTS WARRANTY.

LABOR NOT COVERED:

These limited warranties **DO NOT** include labor or any other costs incurred for service, maintenance, repair, removing, replacing, installing, complying with local building or electrical codes, shipping or handling, replacement of the system, compressors or other parts.

EXCLUDED COMPONENTS:

The following components are not covered by this warranty: cabinets, cabinet pieces, air filters, driers, refrigerant, refrigerant line sets, belts, wiring, fuses, oil nozzles, unit accessories and any parts not affecting unit operation.

WHAT IS THE DATE OF PURCHASE:

The "Date of Purchase" is the date the Product is purchased by the Original Owner. The "Date of Installation" is the date that the original installation was completed and all Product start-up procedures were properly completed and verified by the installer's invoice. If the installation date cannot be verified, then the Date of Installation will either be sixty (60) days after the manufacture date, as determined by the Product's serial number or thirty (30) days from the Date of Purchase. You should keep and be able to provide your original sales receipt from the installer as proof of the Date of Purchase and the Date of Installation. For new construction, the Date of Purchase will be the date of purchase of the residence by the Owner from the builder.

WHO IS COVERED:

Owner occupied: The "Original Owner" means the original owner (and his or her spouse) of a residential single family where the Product was originally installed.

Non-Owner occupied: The "Non-Owner occupied" is defined as a) single family or multi-family residential buildings that are not Owner Occupied, or b) light commercial applications, (such as office buildings, retail establishments, hotels/motels).

For Non-owner occupied, this limited warranty requires that the Product be installed and maintained annually by a licensed HVAC technician (proof of annual maintenance is required).

HOW CAN YOU GET SERVICE:

Contact your licensed HVAC technician installer. All installation and service must be performed by a licensed HVAC technician. Failure to use a licensed HVAC technician for installation of this Product voids all warranty on this Product.

GE Appliances Ductless HVAC Limited Warranty

WHAT GE APPLIANCES WILL NOT COVER:

- Improper service or installation.
- Damage in shipping.
- Defects other than manufacturing defects (i.e., other than workmanship or materials).
- Damage from misuse, abuse, accident, alteration, lack of proper care and/or regular maintenance.
- Damage resulting from floods, fires, wind, lightning, accidents or similar conditions.
- Product that was not installed or serviced by a licensed HVAC technician.
- Labor and related services for repair or installation of the Product.
- A product purchased from an unauthorized online retailer.
- Damage as a result of subjecting Product to an atmosphere with corrosives or high levels of particulates (such as soot, aerosols, fumes, grease).
- Modification, change or alteration of the equipment, except as directed in writing by Haier.
- Use of contaminated or refrigerant not compatible with the unit.
- Operation with system components (indoor unit, outdoor unit, and refrigerant control devices) which are not an AHRI match or meet the specifications recommended by Haier.
- A Product sold and/or installed outside of the 50 United States, the District of Columbia, or Canada.
- Batteries for the controller and other accessories provided with the Product for installation (e.g., plastic hose).
- Normal maintenance, such as cleaning of coils, cleaning filters, and lubrication.
- For Product installed in non-owner occupied applications, Product that has not been maintained annually by a licensed HVAC technician (proof required).
- Damage caused by a used or unapproved component or part by Haier (e.g., a used and/or unapproved condenser / air handler).
- Component or parts not provided by Haier.
- Product that has been moved from its original installation to a new residence or building.
- Accident, or neglect or unreasonable use or operation of the equipment including operation of electrical equipment at voltages other than the range specified on the unit nameplate (includes damages caused by brownouts).
- Damage to the product caused by accident, fire, floods or acts of God.
- Incidental or consequential damage caused by possible defects with this product.

LEGAL RIGHTS:

Some states and provinces do not allow warranty terms to be subject to registration. In those states and provinces, the 10 year Registered Limited Parts Warranty applies. In addition, if allowed by the law of the state or province where the Product is installed, the subsequent owners of the residence or building may have additional rights or longer warranty terms.

REGISTERED LIMITED PARTS WARRANTY COVERAGE REQUIREMENTS:

- The unit is a GE Appliances or a Haier branded unit.
- The unit is installed in a residential application.
- The unit is properly registered at **GEAppliances.com** within 60 days after the original date of installation or occupancy.
- The unit is part of a complete AHRI matched system and installed by a state certified or licensed contractor in accordance with the unit installation, operation, and maintenance instructions provided with the unit.
- Indoor and outdoor ductless units are covered only when they are branded GE Appliances and are purchased and installed as a system along with a qualifying unit. (Third party coils are not covered).
- Installation is in compliance with applicable laws, regulations, codes, and ordinances.
- Unit was not ordered via the internet. Proof of purchase may be required.