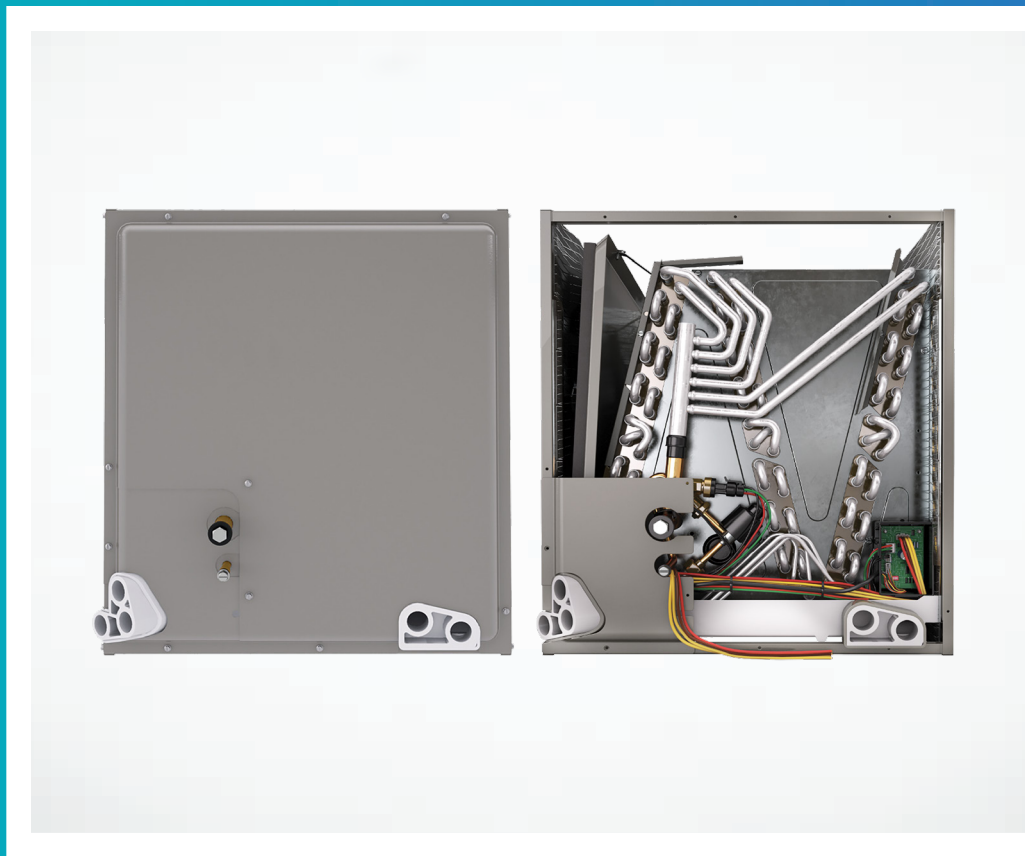




**RESIDENTIAL**  
TRANQUILITY® (SK) PREMIER CASED COIL  
**INSTALLATION, OPERATION  
& MAINTENANCE MANUAL**

Part#: 97B0177N01 | Created: March 13, 2025

Models: SK 024-060  
60Hz – R-454B



Models:  
SK  
024-060

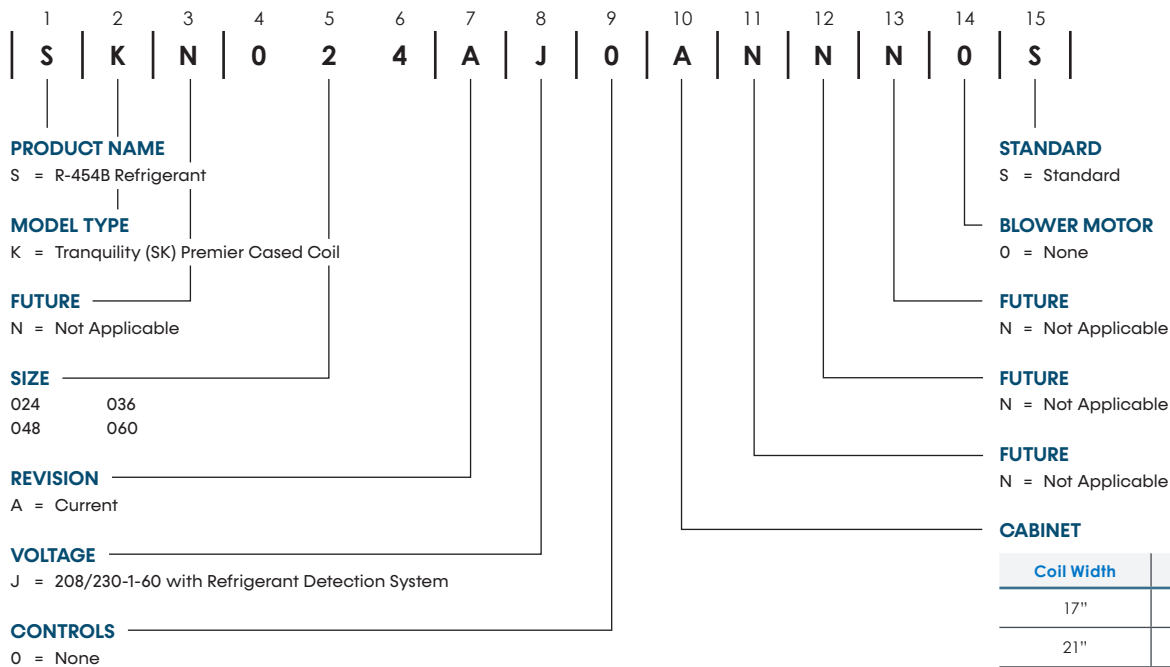
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ClimateMaster works continually to improve its products. As a result, the design and specifications of each product at the time of order may be changed without notice and may not be as described herein. Please contact ClimateMaster's Customer Service Department at 800-299-9747 for specific information on the current design and specifications. Statements and other information contained herein are not express warranties and do not form the basis of any bargain between the parties, but are merely ClimateMaster's opinion or commendation of its products.

## Model Nomenclature



**NOTES:**

1. Available with size 024
2. Available with sizes 036 and 048
3. Available with size 060

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## Attentions, Cautions, and Warnings

### SAFETY

Warnings, cautions, and notices appear throughout this manual. Read these items carefully before attempting any installation, service, or troubleshooting of the equipment.


**DANGER:** Indicates an immediate hazardous situation, which if not avoided will result in death or serious injury. DANGER labels on unit access panels must be observed.

**WARNING:** Indicates a potentially hazardous situation, which if not avoided could result in death or serious injury.

**CAUTION:** Indicates a potentially hazardous situation or an unsafe practice, which if not avoided could result in minor or moderate injury or product or property damage.

**NOTICE:** Notification of installation, operation, or maintenance information, which is important, but which is not hazard-related.

**WARNING**



Disconnect power supply(ies) before servicing. Refer servicing to qualified service personnel. Electric shock hazard. May result in injury or death!

**WARNING**

To avoid the release of refrigerant into the atmosphere, the refrigerant circuit of this unit must be serviced only by technicians who meet local, state, and federal proficiency requirements.

**WARNING**

The installation of water-source heat pumps and all associated components, parts, and accessories which make up the installation shall be in accordance with the regulations of ALL authorities having jurisdiction and MUST conform to all applicable codes. It is the responsibility of the installing contractor to determine and comply with ALL applicable codes and regulations.

**WARNING**

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).

**WARNING**

If unit connected via an air duct system to one or more rooms with R-454B is installed in a room with an area less than  $A_{min}$  or has an Effective Dispersal Volume less than minimum, that room shall be without continuously operating open flames or other POTENTIAL IGNITION SOURCES. A flame-producing device may be installed in the same space if the device is provided with an effective flame arrest.

**WARNING**

All refrigerant discharged from this unit must be recovered WITHOUT EXCEPTION. Technicians must follow industry accepted guidelines and all local, state, and federal statutes for the recovery and disposal of refrigerants. If a compressor is removed from this unit, refrigerant circuit oil will remain in the compressor. To avoid leakage of compressor oil, refrigerant lines of the compressor must be sealed after it is removed.

**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.

**WARNING**

An unventilated area where the appliance using FLAMMABLE REFRIGERANTS is installed shall be so constructed that should any refrigerant leak, it will not stagnate so as to create a fire or explosion hazard.

**WARNING**

Auxiliary devices which may be a POTENTIAL IGNITION SOURCE shall not be installed in the duct work. Examples of such POTENTIAL IGNITION SOURCES are hot surfaces with a temperature exceeding 1,292°F (700°C)

**WARNING**

An unventilated area where a water source heat pump is installed and surpasses a R-454B refrigerant charge of 62 oz (1.76 kg), shall be without continuously operating open flames (for example an operating gas appliance) or other POTENTIAL IGNITION SOURCES (for example, an operating electric heater, hot surfaces).

**WARNING**

Only auxiliary electric heaters approved by ClimateMaster shall be installed in connecting ductwork. The installation of any other auxiliary devices is beyond ClimateMaster's responsibility.

**WARNING**

For mechanical ventilation, the lower edge of the air extraction opening where air is exhausted from the room shall not be more than 3.94 inches (100 mm) above the floor. The location where the mechanical ventilation air extracted from the space is discharged shall be separated by a sufficient distance, but not less than 9.84 feet (3 m), from mechanical ventilation air intake openings, to prevent recirculation to the space.

**WARNING**

Children being supervised are NOT to play with the appliance.

**WARNING**

Do not pierce or burn.

**WARNING**

Be aware that refrigerants may not contain odor.

## Attentions, Cautions, and Warnings

### WARNING

**PROPOSITION 65:** This appliance contains fiberglass insulation. Respirable particles of fiberglass are known to the State of California to cause cancer. All manufacturer products meet current Federal OSHA Guidelines for safety. California Proposition 65 warnings are required for certain products, which are not covered by the OSHA standards. California's Proposition 65 requires warnings for products sold in California that contain or produce any of over 600 listed chemicals known to the State of California to cause cancer or birth defects such as fiberglass insulation, lead in brass, and combustion products from natural gas. All "new equipment" shipped for sale in California will have labels stating that the product contains and/or produces Proposition 65 chemicals. Although we have not changed our processes, having the same label on all our products facilitates manufacturing and shipping. We cannot always know "when, or if" products will be sold in the California market. You may receive inquiries from customers about chemicals found in, or produced by, some of our heating and air-conditioning equipment, or found in natural gas used with some of our products. Listed below are those chemicals and substances commonly associated with similar equipment in our industry and other manufacturers.

- GlassWool (Fiberglass) Insulation
- Carbon Monoxide (CO).
- Formaldehyde
- Benzene

More details are available at the websites for OSHA (Occupational Safety and Health Administration), at [www.osha.gov](http://www.osha.gov) and the State of California's OEHHA (Office of Environmental Health Hazard Assessment), at [www.oehha.org](http://www.oehha.org). Consumer education is important since the chemicals and substances on the list are found in our daily lives. Most consumers are aware that products present safety and health risks, when improperly used, handled and maintained.

### WARNING

This product can expose you to chemicals including Carbon Black, which is known to the State of California to cause cancer and Methanol, which is known to the State of California to cause birth defects or other reproductive harm. For more information go to [www.P65Warnings.ca.gov](http://www.P65Warnings.ca.gov)

### CAUTION

DO NOT store or install units in corrosive environments or in locations subject to temperature or humidity extremes (e.g., attics, garages, rooftops, etc.). Corrosive conditions and high temperature or humidity can significantly reduce performance, reliability, and service life. Always move and store units in an upright position. Tilting units on their sides will cause equipment damage.

### CAUTION

**CUT HAZARD** - Failure to follow this caution may result in personal injury. Sheet metal parts may have sharp edges or burrs. Use care and wear appropriate protective clothing, safety glasses and gloves when handling parts and servicing heat pumps.

### CAUTION

To avoid equipment damage, DO NOT use these units as a source of heating or cooling during the construction process. The mechanical components and filters can quickly become clogged with construction dirt and debris, which may cause system damage and void product warranty.

### CAUTION

All three phase scroll compressors must have direction of rotation verified at startup. Verification is achieved by checking compressor Amp draw. Amp draw will be substantially lower compared to nameplate values. Additionally, reverse rotation results in an elevated sound level compared to correct rotation. Reverse rotation will result in compressor internal overload trip within several minutes. Verify compressor type before proceeding.

### CAUTION

Maximum allowed inlet water temperature 150°F for HWG applications.

### NOTICE

Servicing shall be performed only as recommended by the manufacturer.

### NOTICE

REFRIGERANT SENSORS for REFRIGERANT DETECTION SYSTEMS shall only be replaced with sensors specified by the appliance manufacturer.

### NOTICE

An unconditioned attic is not considered natural ventilation.

### NOTICE

This unit is equipped with electrically powered safety measures. To be effective, the unit must be electrically powered at all times after installation, other than when servicing.

### NOTICE

For installation only in locations not accessible to the general public.

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## General Information

### INSPECTION

Upon receipt of the equipment, carefully check the shipment against the bill of lading. Make sure all units have been received. Inspect the packaging of each unit, and inspect each unit for damage. Ensure that the carrier makes proper notation of any shortages or damage on all copies of the freight bill and completes a common carrier inspection report. Concealed damage not discovered during unloading must be reported to the carrier within 15 days of receipt of shipment. If not filed within 15 days, the freight company can deny the claim without recourse.

**NOTE: It is the responsibility of the purchaser to file all necessary claims with the carrier. Notify your equipment supplier of all damage within 15 days of shipment.**

### STORAGE

Equipment should be stored in its original packaging in a clean, dry area. Store units in an upright position at all times. You may stack vertical configurations a maximum of two units high and horizontal configurations a maximum of three units high.

### UNIT PROTECTION

Cover units on the job site with either the original packaging or an equivalent protective covering. Cap the open ends of pipes stored on the job site. In areas where painting, plastering, and/or spraying has not been completed, all due precautions must be taken to avoid physical damage to the units and contamination by foreign material. Physical damage and contamination may prevent proper startup and may result in costly equipment cleanup.

Examine all pipes, fittings, and valves before installing any of the system components. Remove any dirt or debris found in or on these components.

### PRE-INSTALLATION

Installation, Operation, and Maintenance instructions are provided with each unit. Horizontal equipment is designed for installation above false ceiling or in a ceiling plenum. Other unit configurations are typically installed in a mechanical room. The installation site chosen should include adequate service clearance around the unit. Before unit startup, read all manuals and become familiar with the unit and its operation. Thoroughly check the system before operation.

### PREPARE UNITS FOR INSTALLATION AS FOLLOWS:

1. Compare the electrical data on the unit nameplate with ordering and shipping information to verify that the correct unit has been shipped.
2. Keep the cabinet covered with the original packaging until installation is complete and all plastering, painting, etc. is finished.
3. Verify refrigerant tubing is free of kinks or dents and that it does not touch other unit components.
4. Inspect all electrical connections. Connections must be clean and tight at the terminals.
5. Remove any blower support packaging (water-to-air units only).
6. Some airflow patterns are field convertible (horizontal units only). Locate the airflow conversion section of this IOM.
7. Locate and verify any hot water generator (HWG), hanger, or other accessory kit located in the compressor section or blower section.

### 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, these steps shall be completed prior to conducting work on the system.

## General Information

### Work Procedure

Work 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.

### 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.

### 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 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.

### Presence of 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 powder or CO<sub>2</sub> fire extinguisher adjacent to the charging area.

### No ignition sources

No person carrying out work in relation to a REFRIGERATION 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.

### Ventilated area

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.

### Checks to the Refrigeration Equipment

The following checks shall be applied to installations using FLAMMABLE REFRIGERANTS:

- 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;
- If an indirect refrigerating circuit is being used, the secondary circuit shall be checked for the presence of refrigerant;
- Marking to the equipment continues to be visible and legible. Markings and signs that are illegible shall be corrected;
- Refrigerant piping 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.

### 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, 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:

- 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.

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024-060

## General Information

### REPAIR TO INTRINSICALLY SAFE COMPONENTS

Intrinsically safe components must be replaced.

#### 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.

#### REQUIRED AREA FOR INSTALLATION

The minimum room area of the space ( $A_{min}$ ) or a minimum room area of conditioned space ( $TA_{min}$ ) shall be corrected for unit's location altitude by multiplying  $A_{min}$  or  $TA_{min}$  by the applicable altitude adjustment factor (AF) for building ground-level altitude ( $H_{alt}$ ) in feet or meters, as shown in Table 1.

**NOTE:**

- You can use Imperial or Metric measurements to calculate  $A_{min}$  or  $TA_{min}$ .
- The maximum allowable altitude of installation for this product is 6,561 ft (2,000 m).

**Table 1: Altitude Adjustment**

$H_{alt}$ ft (m)	AF
0 (0)	1.00
656 (200)	1.00
1,312 (400)	1.00
1,968 (600)	1.00
2,624 (800)	1.02
3,280 (1,000)	1.05
3,937 (1,200)	1.07
4,593 (1,400)	1.10
5,249 (1,600)	1.12
5,905 (1,800)	1.15
6,561 (2,000)	1.18

### CASED COIL DESCRIPTION

ClimateMaster Tranquility Cased Coils are designed for use with ClimateMaster indoor/outdoor split units and are available for vertical upflow or downflow, and horizontal left or horizontal right airflow.

- Constructed of aluminum fins bonded to internally grooved aluminum tubing.
- Coils are tested at the factory with an extensive refrigerant leak check.
- Coils have sweat refrigerant connections.
- Ideally suited for new installations or add on air conditioning.
- Feature two sets of 3/4-inch FPT condensate drain connections for ease of connection.
- Coils are AHRI certified for system application with ClimateMaster indoor and outdoor split units.
- Condensate drain pan is constructed of high-grade, heat-resistant, corrosion-free, thermal-set material.
- Bi-directional airflow eliminates the need to switch any internal components from horizontal left to right.
- Unique drain-pan design maximizes application flexibility and condensate removal.

## Minimum Installation Area

### MINIMUM INSTALLATION AREA

**Minimum installation area for units that do not have a blower (e.g. w-w) where you do not need mechanical/natural ventilation.**

Model	Charge (oz)	Minimum Installation Area ft <sup>2</sup> [A <sub>min</sub> ]			
		Floor	Window	Wall	Ceiling
SJ024	60	290	115	66	54
SJ036	96	743	231	105	87
SJ048	106	906	282	117	96
SJ060	136	1,492	464	153	123

A <sub>min</sub>	=	Minimum area where the unit is installed where ventilation is not required.
h <sub>inst</sub> (floor)	=	0.0 ft (0.0 m)
h <sub>inst</sub> (window)	=	3.3 ft (1.0 m)
h <sub>inst</sub> (wall)	=	5.9 ft (1.8 m)
h <sub>inst</sub> (ceiling)	=	7.2 ft (2.2 m)

**Minimum area where the unit can be installed if it has a blower so that you do not need mechanical/natural ventilation.**

Model	Charge (oz)	Minimum Installation Area ft <sup>2</sup> [A <sub>min</sub> ]			
		Floor	Window	Wall	Ceiling
SA/SK024	60	206	115	66	54
SA/SK036	96	330	184	106	87
SA/SK048	106	364	203	117	96
SA/SK060	136	467	261	150	123

A <sub>min</sub>	=	Minimum area where unit is installed when unit has incorporated airflow.
h <sub>inst</sub> (floor)	=	0.0 ft (0.0 m)
h <sub>inst</sub> (window)	=	3.3 ft (1.0 m)
h <sub>inst</sub> (wall)	=	5.9 ft (1.8 m)
h <sub>inst</sub> (ceiling)	=	7.2 ft (2.2 m)

**Minimum CFM of unit that has a blower needed for mitigation mode.**

Model	Charge (oz)	Minimum CFM [Q <sub>min</sub> ]
SA/SK024	60	101.5
SA/SK036	96	162.4
SA/SK048	106	179.3
SA/SK060	136	230.0

Q <sub>min</sub>	=	Minimum CFM provided by unit
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**Minimum area and CFM requirements for the conditioned space (with a blower).**

Model	Charge (oz)	Conditioned Area	
		TA <sub>min</sub> ft <sup>2</sup>	Q <sub>min</sub> (ft <sup>2</sup> /min)
SA/SK024	60	101.5	3.07
SA/SK036	96	162.4	4.92
SA/SK048	106	179.3	5.43
SA/SK060	136	230.0	6.97

TA <sub>min</sub>	=	Minimum conditioned area for venting leaked refrigerant
Q <sub>min</sub>	=	Minimum ventilation flow rate for conditioned space if space is less than TA <sub>min</sub>

**Minimum area of opening for natural ventilation to the outdoors (with or without a blower).**

Model	Charge (oz)	A <sub>nv</sub> in <sup>2</sup>
SA/SK/SJ/SP024	60	104.0
SA/SK/SJ/SP036	96	131.6
SA/SK/SJ/SP048	106	138.3
SA/SK/SJ/SP060	136	156.6

A <sub>nv</sub>	=	Minimum natural ventilation area opening to the outdoors
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## Minimum Installation Area

When the openings for connected rooms or natural ventilation are required, the following conditions shall be applied:

- The area of any openings above 11.8 inches (300 mm) from the floor shall not be considered in determining compliance with  $Anv_{min}$ .
- At least 50% of the required opening area  $Anv_{min}$  shall be below 7.8 inches (200 mm) from the floor.
- The bottom of the lowest openings shall not be higher than the point of release when the unit is installed and not more than 3.9 inches (100 mm) from the floor.
- Openings are permanent openings which cannot be closed.
  - For openings extending to the floor, the height shall not be less than 0.78 inch (20 mm) above the surface of the floor covering.
- A second higher opening shall be provided. The total size of the second opening shall not be less than 50% of minimum opening area for  $Anv_{min}$  and shall be at least 3.3 ft (1.5 m) above the floor.

## Refrigerant System Servicing

### REFRIGERANT SYSTEM

Verify that air- and water-flow rates are at proper levels before servicing the refrigerant circuit. To maintain sealed-circuit integrity, do not install service gauges unless unit operation appears abnormal. Reference the operating charts for pressures and temperatures.

#### 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 Nitrogen
- Evacuate
- Continuously flush or purge with Nitrogen when using flame to open circuit
- Open the circuit.

The refrigerant charge shall be recovered into the correct recovery cylinders as 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, refrigerant 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 FLAMMABLE REFRIGERANT). This process shall be repeated until no refrigerant remains in the system (optional for FLAMMABLE REFRIGERANT). 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.

#### 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 minimize the amount of refrigerant contained in them.
- Cylinders shall be kept in an appropriate position according to the instructions to ensure charging with liquid refrigerant.
- Ensure that the REFRIGERATION SYSTEM is grounded prior to charging the system with refrigerant.
- Label the system when charging is complete (if not already):
  - For packaged units, the data plate will dictate the charge level.
  - For split systems, write the charge level on the data plate.
- Extreme care shall be taken not to overfill the REFRIGERATION 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.

#### Leak Detection

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.

A2L-Compliant 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.

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## Refrigerant System Servicing

Leak-detection equipment shall be set at a percentage of the lower flammability limit 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 refrigerant leak that requires brazing is identified, 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 Removal and Evacuation section.

## 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.

1. Become familiar with the equipment and its operation.
2. Isolate system electrically.

3. Before attempting the procedure, ensure that:
  - Mechanical-handling equipment is available, if required, for handling refrigerant cylinders.
  - All personal protective equipment is available and being used correctly.
  - The recovery process is supervised at all times by a competent person.
  - Recovery equipment and cylinders conform to the appropriate standards.
4. Pump down refrigerant system, if possible.
5. If a vacuum is not possible, make a manifold so that refrigerant can be removed from various parts of the system.
6. Make sure that cylinder is situated on the scales before recovery takes place.
7. Start the recovery machine and operate in accordance with instructions.
8. Do not overfill cylinders (no more than 80% volume liquid charge).
9. Do not exceed the maximum working pressure of the cylinder, even temporarily.
10. When the cylinders have been filled correctly and the process completed, make sure that the cylinders and the equipment are removed from site promptly and all isolation valves on the equipment are closed off.
11. Recovered refrigerant shall not be charged into another REFRIGERATING SYSTEM unless it has been cleaned and checked.

**Labeling** - Upon decommissioning, equipment shall be labeled stating that it has been decommissioned and emptied of refrigerant. The label shall be dated and signed.

## Refrigerant System Servicing

### 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-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 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 condition.

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.

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## Physical Data and Specifications

### Tranquility SK Physical Data

Model Size	024	036	048	060
<b>Refrigerant Circuit</b>				
Liquid I.D. (in.)	3/8	3/8	3/8	3/8
Suction I.D. (in.)	3/4	7/8	7/8	7/8
Refrigerant Leak Detection System	R <sup>1</sup>	R <sup>1</sup>	R <sup>1</sup>	R <sup>1</sup>
Number of Sensors	1	1	1	1
<b>Cased Coil Dimensions</b>				
A - Width - in.	17 1/2	21	21	24 1/2
B - Coil Height (in.)	14 1/2	25 7/8	25 7/8	30
C - Height (in.)	20	28	28	32
<b>Weight</b>				
Coil Weight lbs.	43	71	71	100
Shipping Weight lbs.	48	78	78	110

1. The RDS is factory installed on all Tranquility SK sizes.

## Tranquility SK Dimensional Data

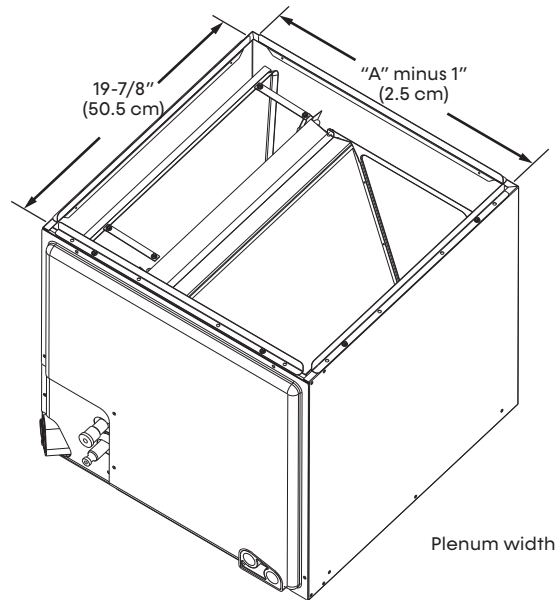
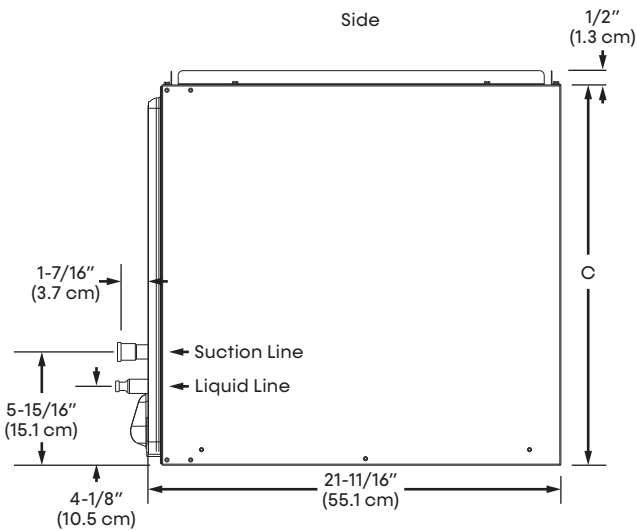
Models:  
SK  
024-060

Model Size	024	036	048	060
<b>Refrigerant Circuit</b>				
Liquid I.D. (in.)	3/8	3/8	3/8	3/8
Suction I.D. (in.)	3/4	7/8	7/8	7/8
Refrigerant Leak Detection System	R <sup>1</sup>	R <sup>1</sup>	R <sup>1</sup>	R <sup>1</sup>
Number of Sensors	1	1	1	1
<b>Cased Coil Dimensions</b>				
A - Width - in.	17 1/2	21	21	24 1/2
B - Coil Height (in.)	14 1/2	25 7/8	25 7/8	30
C - Height (in.)	20	28	28	32
<b>Weight</b>				
Coil Weight lbs.	43	71	71	100
Shipping Weight lbs.	48	78	78	110

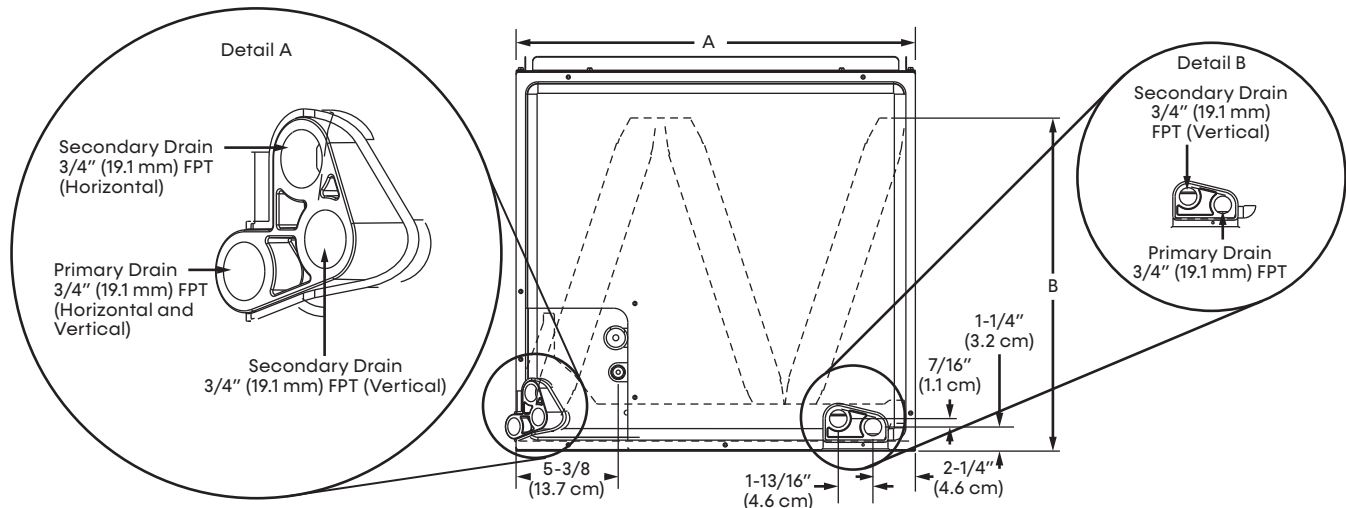
1. The RDS is factory installed on all Tranquility SK sizes.

**NOTES:**

- Flanges are provided for field installation
- Casing top and bottom openings are the same direction



Front



Models:  
SK  
024-060

## Installation

The Tranquility SK Premier Cased Coil is designed for upflow, horizontal, and downflow applications. The coils have a dry nitrogen holding charge and are equipped with brazing-stub refrigerant connections for easy installation.

The installer should read the installation manual supplied with the compressor section for refrigerant line set sizing, connection procedure, and other important information pertaining to the system installation.

### Installers should use the following guidance:

- Ensure that the air delivery of the furnace is adequate enough to handle the recommended CFM and allow for pressure drop across the air-coil, filter, and duct work.
- Where precise forming of refrigerant lines is required, a tubing bender is recommended for small diameter tubing. One should avoid sharp bends and contact of the refrigerant lines with metal surfaces.
- Refrigerant lines should be protected where they pass through the raw edges of holes.
- The coil must be level or slightly pitched toward drain for proper condensate drainage.
- Seal the openings into the cabinet to reduce risk of condensate blow off from the coil.

## CASED COIL INSTALLATION

### Installers should use the following guidance:

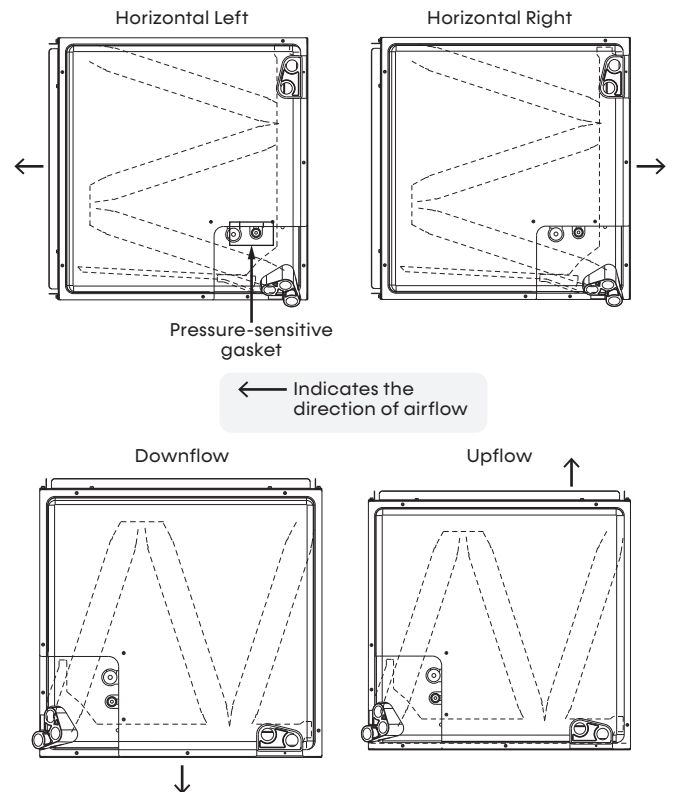
1. Disconnect all electrical power to the furnace.
2. For the install of a cased coil, it might be necessary to fabricate a plate to adapt the coil's cabinet to the furnace or air handler air discharge opening.
3. Install the cabinet and level or slightly pitch it as needed to allow proper condensate drainage.
4. Seal the enclosure as required minimizing air leakage.
5. Connect the refrigerant lines as outlined in the Refrigerant Lines section.

## APPLICATIONS

Tranquility SK Cased coils can be applied in upflow, downflow, horizontal-right, and horizontal-left applications without modifications. For horizontal applications, installation of an auxiliary/secondary drain pan is required. For coils that are two sizes larger than the furnace, for example, a 21-inch-wide (53.3 cm) coil on a 14-inch (35.6 cm) furnace, a tapered adaptor with a minimum height of 6 inches (15.2 cm) is required to evenly distribute airflow (see Figure 2). For coils that are one size larger than the furnace; for example a 21-inch-wide (53.3 cm) coil on a 17½-inch (44.5 cm) furnace, seal the gap between the two units with sheet metal (see Figure 3).

**NOTE: The coil MUST be installed on the supply-airflow side of a gas or oil furnace.**

Figure 1: Coil Installation options



### CAUTION

For horizontal applications, the horizontal drain pan must be located under the indoor coil. Failure to place the pan under the coil can result in property damage.

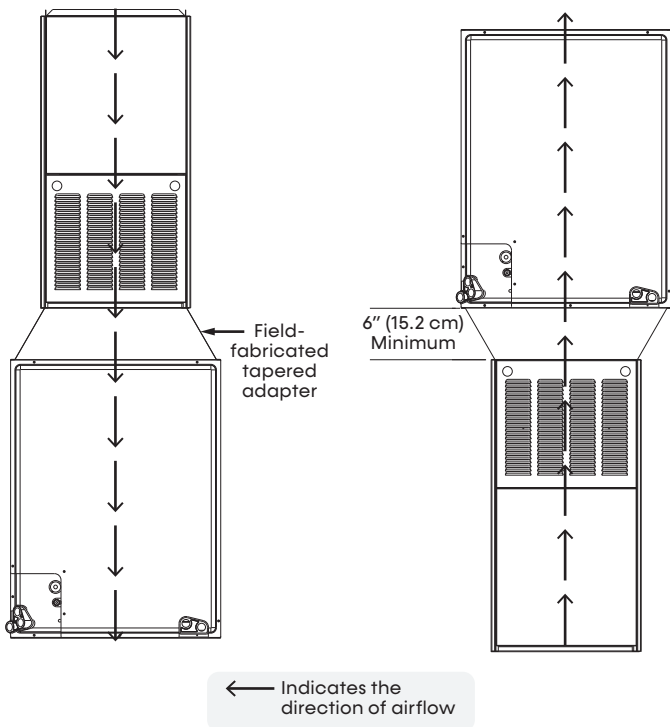
# Installation

**Table 2: Coil Applications**

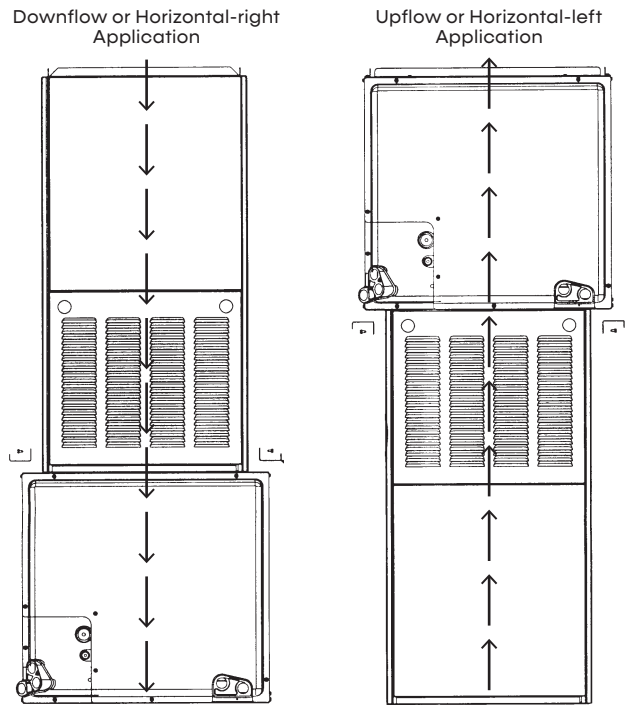
Coil Model	Furnace Width inch [cm]	
	Oil <sup>1</sup>	Gas
SK024	21 [53.3]	17-1/2 [44.5]
		14 [35.6]
SK024	21 [53.3]	21 [53.3]
		17-1/2 [44.5]
SK036	24 1/2 [62.2]	24 1/2 [62.2]
SK048		
SK060		

1. Due to the proximity of the drain pan to the high temperature oil furnace drum, the horizontal-left application is NOT permitted on oil furnaces.

**Figure 2: Installation of a Coil Two Sizes Larger than the Furnace**



**Figure 3: Installation of a Coil Matched with a Furnace a Size Smaller**



← Indicates the direction of airflow

When a cooling coil is matched with a gas furnace of one smaller size, always center the coil over the furnace.

**NOTE: Seal the gap between the two units with appropriate sheet-metal parts.**

**CAUTION**

R-454B systems operate at higher pressures than R-22/ HFC-410A systems. Be certain that service equipment (gauges, tools, etc.) is rated for HFC-410A. Some R-22/ HFC-410A service equipment may not be acceptable.

**CAUTION**

Installation of a factory supplied liquid line bi-directional filter drier is required. Never install a suction line filter in the liquid line.

**Line Set Installation**

Figure 10 illustrates a typical installation of an air handler or cased coil matched to an indoor compressor section. Line-set lengths should be kept to a minimum and should always be installed with care to avoid kinking. Line sets are limited to 60-feet (18 meters) in length (one way). Line sets over 60 feet (18 meters) void the equipment warranty. If the line set is kinked or distorted, and it cannot be formed back into its original shape, the damaged portion of the line should be replaced. A restricted line set impacts the performance of the system.

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## Installation

ClimateMaster split units are shipped with a filter drier loose inside the cabinet that must be installed in the liquid line at the line set.

All brazing should be performed using nitrogen circulating at 2-3 psi (13.8-20.7 kPa) to prevent oxidation inside the tubing. All linesets should be insulated with a minimum of ½-inch (13 mm) thick closed cell insulation. All insulation tubing should be sealed using a UV-resistant paint or covering to prevent deterioration from sunlight.

When passing refrigerant lines through a wall, seal opening with silicon-based caulk. Avoid direct contact with water pipes, duct work, floor joists, wall studs, floors, or other structural components that could transmit compressor vibration. Do not suspend refrigerant tubing from joists with rigid straps. Do not attach line set to the wall. When necessary, use hanger straps with isolation sleeves to minimize transmission of line set vibration to the structure.

### Installing the Line Set at the Compressor Section

Braze the line set to the service valve stubs as shown in Figure 5. Nitrogen should be circulated through the system at 2-3 psi (13.8-20.7 kPa) to prevent oxidation contamination. Use a low-silver phos-copper braze alloy on all brazed connections. The compressor section is shipped with a factory charge. Therefore, service valves should not be opened until the line set has been leak tested, purged, and evacuated.

### Installing the Indoor Coil and Line Set

Figure 7 shows the installation of the line set and TXV to a typical indoor coil. An indoor coil or air handler (fan coil) with a TXV is required. Fasten the copper line set to the coil. Nitrogen should be circulated through the system at 2-3 psi (13.8-20.7 kPa) to prevent oxidation inside the refrigerant tubing. Use a low-silver phos-copper braze alloy on all brazed connections.

Figure 4: SJ Brazing Instructions

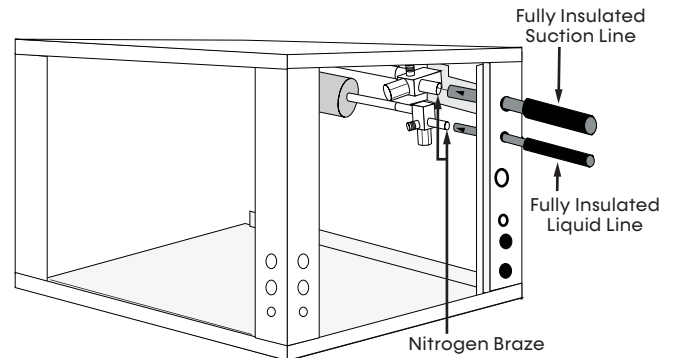


Figure 5: SJ Brazing Instructions (2)

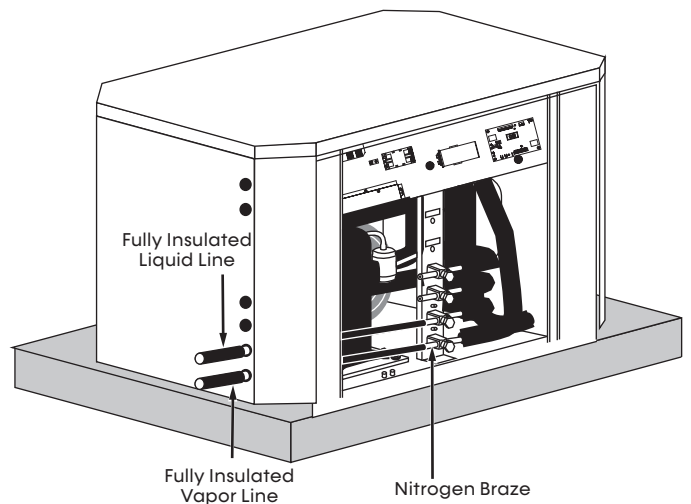
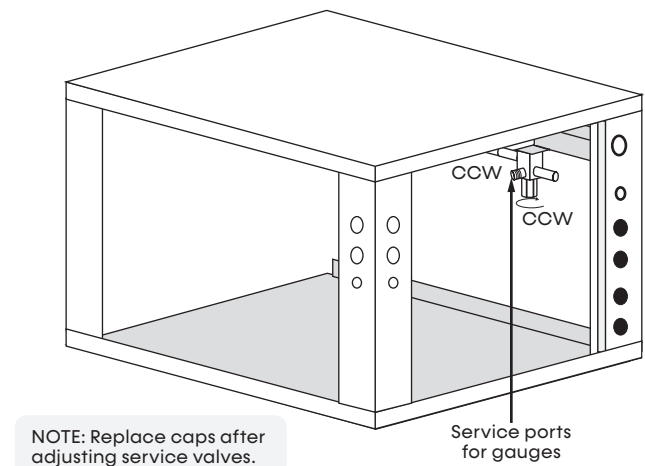
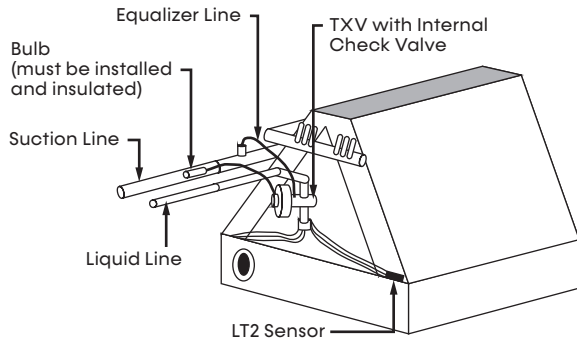


Figure 6: SP Brazing Instructions (3)



# Installation

**Figure 7: Air Coil Connection**



### Sensing Bulb

**NOTICE**

TXV sensing bulb should be located on a horizontal section of copper suction line, just outside of coil box. The copper sensing bulb must never be placed on any aluminum tube as this will result in galvanic corrosion and eventual failure of the aluminum tube.

**NOTICE**

Do not perform any brazing with the TXV bulb attached to any line. After brazing operations have been completed, clamp the TXV bulb securely on the suction line at the 10 to 2 o'clock position with the strap provided. Insulate the bulb and line with pressure sensitive tape.

**NOTICE**

Always protect TXV from heat when brazing.

### Add-on Heat Pump Applications

The indoor coil should be located on the supply side of the furnace to avoid condensation damage to the furnace heat exchanger for add-on heat pump applications. A high temperature limit switch should be installed as shown in Figure 10 just upstream of the coil to de-energize the compressor any time the furnace is energized to avoid blowing hot air directly into the coil, elevating refrigerant pressures during operation. The heat pump will trip out on high-pressure lockout without some method of disengaging the compressor during furnace operation. Alternatively, some thermostats with dual-fuel mode will automatically de-energize the compressor when second-stage (backup) heat is required.

### Air Coil

To obtain maximum performance of a newly manufactured air coil it should be cleaned before startup. A 10% solution of dishwasher detergent and water is recommended for both sides of the coil. A thorough water rinse should follow.

\*An LT2 (low-temperature air-coil protection) sensor is available for field installation. Order sensor kit number S17S0031N12.

### Evacuation

**LEAK TESTING** - The refrigeration line set must be pressurized and checked for leaks before evacuating and charging the unit. To pressurize the line set, attach refrigerant gauges to the service ports and add an inert gas (nitrogen or dry carbon dioxide) until pressure reaches 60-90 psig (413-620 kPa). Never use oxygen or acetylene to pressure test. Use a good quality bubble solution to detect leaks on all connections made in the field. Check the service valve ports and stem for leaks. If a leak is found, repair it and repeat the above steps. For safety reasons do not pressurize system above 150 psig (1,034 kPa). System is now ready for evacuation and charging.

### Condensate Drain Tubing

Consult local codes or ordinances for specific requirements.

**NOTICE**

When making drain fitting connections to the drain pan, use a thin layer of water thread sealant paste, silicone, or water thread sealant tape and install hand tight.

**NOTICE**

When making drain fitting connections to drain pan, do not overtighten. Overtightening fittings can split pipe connections on the drain pan.

- Install drain lines so they do not block service access to front of the unit. Minimum clearance of 24 inches (61 cm) is recommended for filter, coil or blower removal and service access.
- Make sure unit is level or pitched slightly toward primary drain connection so that water will drain completely from the pan (see Figure 8).

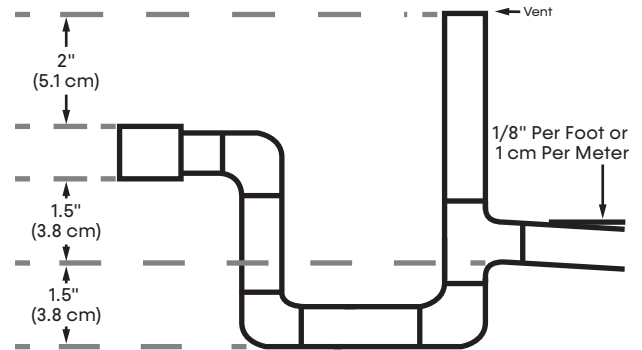
Models:  
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## Installation

- Do not reduce drain-line size less than connection size provided on condensate drain pan.
- All drain lines must be pitched downward away from the unit a minimum of 1/8-inch per foot [11 mm per m] of line to ensure proper drainage.
- Do not connect condensate drain line to a closed or open sewer pipe. Run condensate to an open drain or outdoors.
- The drain line should be insulated where necessary to prevent sweating and damage due to condensate forming on the outside surface of the line.
- Plan for disconnecting and cleaning the primary drain line. Install a condensate trap at each unit with the top of the trap positioned below the unit condensate drain connection as shown in Figure 8. Design the depth of the trap (water-seal) based upon the amount of ESP capability of the blower (where 2-inches [51 mm] of ESP capability requires 2-inches [51 mm] of trap depth). As a general rule, 1½-inch [38 mm] trap depth is the minimum.
- Always vent the condensate line when dirt or air can collect in the line or a long horizontal drain line is required. Also vent when large units are working against higher external static pressure than other units connected to the same condensate main since this may cause poor drainage for all units on the line. **WHEN A VENT IS INSTALLED IN THE DRAIN LINE, IT MUST BE LOCATED AFTER THE TRAP IN THE DIRECTION OF THE CONDENSATE FLOW.**
- The auxiliary drain line should be run to a place where it is noticeable if it becomes operational. Warn occupants that a problem exists if water begins running from the auxiliary drain line.
- Plug the unused drain connection with the plugs provided in the parts bag, using a thin layer of water thread sealant paste, silicone, or water thread sealant tape to form a water-tight seal.
- Test the condensate drain pan and drain line after installation is complete. Pour enough water into drain pan to fill drain trap and line. Check to ensure drain pan is draining completely, no leaks are found in drain line fittings, and water is draining from the termination of the primary drain line.

### DO NOT OPERATE THE UNIT WITHOUT CONDENSATE- DRAIN TRAP.

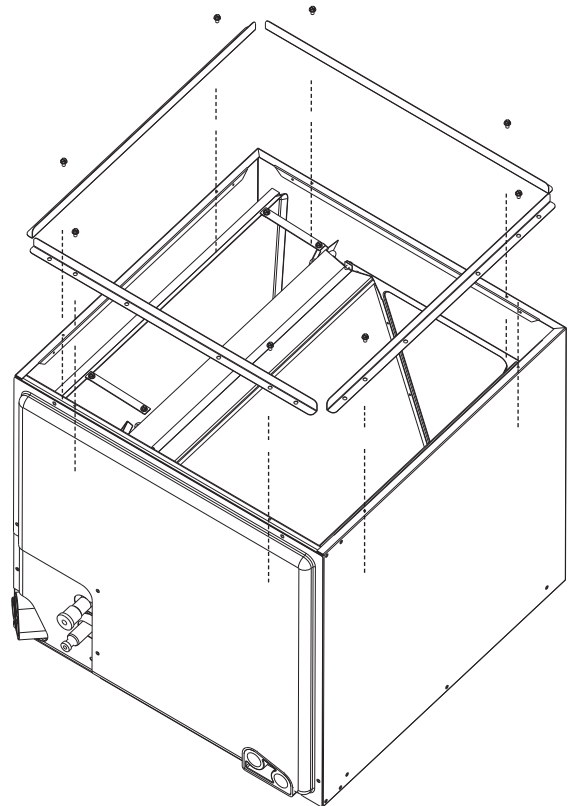
Figure 8: Horizontal Condensate Connection



### CAUTION

CAUTION! It is recommended that an auxiliary/secondary drain pan be installed under units containing evaporator coils that are located in any area of a structure where damage to the building or building contents may occur as a result of an overflow of the coil drain pan or a stoppage in the primary condensate drain piping.

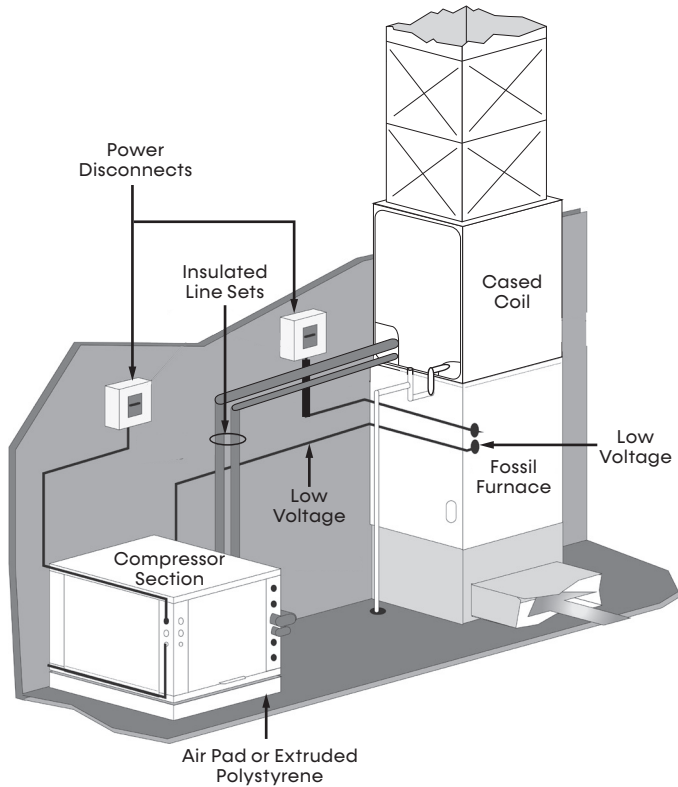
Figure 9: Field-installed Duct Flanges



**Charging the System**

See Compressor Section IOM for charging information.

**Figure 10: Typical Split/Add-on Coil Fossil Fuel Furnace Installation**



**⚠ WARNING**

These instructions are intended as an aid to qualified licensed service personnel for proper installation, adjustment and operation of this unit. Read these instructions thoroughly before attempting installation or operation. Failure to follow these instructions may result in improper installation, adjustment, service or maintenance possibly resulting in property damage, personal injury or death.

For continuing high performance and to minimize possible equipment failure, it is essential that annual maintenance be performed on this equipment. Consult your local dealer for the availability of a maintenance contract.

**Air Filter**

Check the system filter every ninety days or as often as found to be necessary and if obstructed, clean or replace at once.

**NOTE: Do not operate the system without a filter in place.**

**Indoor Coil - Drain Pipe - Drain Line**

Inspect the indoor coil once each year for cleanliness and clean as necessary. In some cases, it may be necessary to remove the filter and check the return side of the coil with a mirror and flashlight.

**NOTE: Do not use caustic household drain cleaners or bleach in the condensate pan or near the indoor coil. Drain cleaners will quickly damage the indoor coil.**

Models:  
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# Warranty (U.S. and Canada)

## CLIMATE MASTER, INC. LIMITED EXPRESS WARRANTY/ LIMITATION OF REMEDIES AND LIABILITY



It is expressly understood that unless a statement is specifically identified as a warranty, statements made by Climate Master, Inc., a Delaware corporation, ("CM") or its representatives, relating to CM's products, whether oral, written or contained in any sales literature, catalog or any other agreement, are not express warranties and do not form a part of the basis of the bargain, but are merely CM's opinion or commendation of CM's products.

**EXCEPT AS SPECIFICALLY SET FORTH HEREIN, THERE IS NO EXPRESS WARRANTY AS TO ANY OF CM'S PRODUCTS. CM MAKES NO WARRANTY AGAINST LATENT DEFECTS. CM MAKES NO WARRANTY OF MERCHANTABILITY OF THE GOODS OR OF THE FITNESS OF THE GOODS FOR ANY PARTICULAR PURPOSE.**

### GRANT OF LIMITED EXPRESS WARRANTY

CM warrants CM products purchased and retained in the United States of America and Canada to be free from defects in material and workmanship under normal use and maintenance as follows: (1) All complete air conditioning, heating and/or heat pump units built or sold by CM for twelve (12) months from date of unit start up or eighteen (18) months from date of shipment (from factory), whichever comes first; (2) Repair and replacement parts, which are not supplied under warranty, for ninety (90) days from date of shipment (from factory). All parts must be returned to CM's factory in Oklahoma City, Oklahoma, freight prepaid, no later than sixty (60) days after the date of the failure of the part; if CM determines the part to be defective and within CM's Limited Express Warranty, CM shall, when such part has been either replaced or repaired, return such a to a factory recognized dealer, contractor or service organization, F.O.B. CM's factory, Oklahoma City, Oklahoma, freight prepaid. The warranty on any parts repaired or replaced under warranty expires at the end of the original warranty period.

This warranty does not cover and does not apply to: (1) Air filters, fuses, refrigerant, fluids, oil; (2) Products relocated after initial installation; (3) Any portion or component of any system that is not supplied by CM, regardless of the cause of the failure of such portion or component; (4) Products on which the unit identification tags or labels have been removed or defaced; (5) Products on which payment to CM is or has been in default; (6) Products which have defects or damage which result from improper installation, wiring, electrical imbalance characteristics or maintenance; or are caused by accident, misuse or abuse, fire, flood, alteration or misapplication of the product; (7) Products which have defects or damage which result from a contaminated or corrosive air or liquid supply, operation at abnormal temperatures, or unauthorized opening of refrigerant circuit; (8) Mold, fungus or bacteria damages; (9) Products subjected to corrosion or abrasion; (10) Products manufactured or supplied by others; (11) Products which have been subjected to misuse, negligence or accidents; (12) Products which have been operated in a manner contrary to CM's printed instructions; or (13) Products which have defects, damage or insufficient performance as a result of insufficient or incorrect system design or the improper application of CM's products.

CM is not responsible for: (1) The costs of any fluids, refrigerant or other system components, or associated labor to repair or replace the same, which is incurred as a result of a defective part covered by CM's Limited Express Warranty; (2) The costs of labor, refrigerant, materials or service incurred in removal of the defective part, or in obtaining and replacing the new or repaired part; or, (3) Transportation costs of the defective part from the installation site to CM or of the return of any part not covered by CM's Limited Express Warranty.

**Limitation:** This Limited Express Warranty is given in lieu of all other warranties. If, notwithstanding the disclaimers contained herein, it is determined that other warranties exist, any such warranties, including without limitation any express warranties or any implied warranties of fitness for particular purpose and merchantability, shall be limited to the duration of the Limited Express Warranty.

### LIMITATION OF REMEDIES

In the event of a breach of the Limited Express Warranty, CM will only be obligated at CM's option to repair the failed part or unit or to furnish a new or rebuilt part or unit in exchange for the part or unit which has failed. If after written notice to CM's factory in Oklahoma City, Oklahoma of each defect, malfunction or other failure and a reasonable number of attempts by CM to correct the defect, malfunction or other failure and the remedy fails of its essential purpose, CM shall refund the purchase price paid to CM in exchange for the return of the sold goods(s). Said refund shall be the maximum liability of CM. **THIS REMEDY IS THE SOLE AND EXCLUSIVE REMEDY OF THE BUYER OR THEIR PURCHASER AGAINST CM FOR BREACH OF CONTRACT, FOR THE BREACH OF ANY WARRANTY OR FOR CM'S NEGLIGENCE OR IN STRICT LIABILITY.**

### LIMITATION OF LIABILITY

CM shall have no liability for any damages if CM's performance is delayed for any reason or is prevented to any extent by any event such as, but not limited to: any war, civil unrest, government restrictions or restraints, strikes or work stoppages, fire, flood, accident, shortages of transportation, fuel, material, or labor, acts of God or any other reason beyond the sole control of CM. **CM EXPRESSLY DISCLAIMS AND EXCLUDES ANY LIABILITY FOR CONSEQUENTIAL OR INCIDENTAL DAMAGE IN CONTRACT, FOR BREACH OF ANY EXPRESS OR IMPLIED WARRANTY, OR IN TORT, WHETHER FOR CM'S NEGLIGENCE OR AS STRICT LIABILITY.**

### OBTAINING WARRANTY PERFORMANCE

Normally, the contractor or service organization who installed the products will provide warranty performance for the owner. Should the installer be unavailable, contact any CM recognized dealer, contractor or service organization. If assistance is required in obtaining warranty performance, write or call:

Climate Master, Inc. • Customer Service • 7300 S.W. 44th Street • Oklahoma City, Oklahoma 73179 (405) 745-6000

NOTE: Some states or Canadian provinces do not allow limitations on how long an implied warranty lasts, or the limitation or exclusions of consequential or incidental damages, so the foregoing exclusions and limitations may not apply to you. This warranty gives you specific legal rights, and you may also have other rights which vary from state to state and from Canadian province to Canadian province.

Please refer to the CM Installation, Operation and Maintenance Manual for operating and maintenance instructions.

Rev.: 11/09



# Warranty (International)

## CLIMATE MASTER, INC. LIMITED EXPRESS WARRANTY / LIMITATION OF REMEDIES AND LIABILITY (FOR INTERNATIONAL CLASS PRODUCTS)



**DISCLAIMER:** It is expressly understood that unless a statement is specifically identified as a warranty, statements made by Climate Master, Inc., a Delaware corporation, U.S.A. ("CM") or its representatives, relating to CM's products, whether oral, written or contained in any sales literature, catalog, this or any other agreement or other materials, are not express warranties and do not form a part of the basis of the bargain, but are merely CM's opinion or commendation of CM's products. **EXCEPT AS SPECIFICALLY SET FORTH HEREIN AND TO THE FULLEST EXTENT PERMITTED BY APPLICABLE LAW, CM MAKES NO WARRANTY AS TO ANY OF CM'S PRODUCTS, AND CM MAKES NO WARRANTY AGAINST LATENT DEFECTS OR ANY WARRANTY OF MERCHANTABILITY OF THE GOODS OR OF THE FITNESS FOR ANY PARTICULAR PURPOSE.**

**GRANT OF LIMITED EXPRESS WARRANTY**

CM warrants CM products purchased and installed outside the United States of America ("U.S.A.") and Canada to be free from material defects in materials and workmanship under normal use and maintenance as follows: (1) All complete air conditioning, heating or heat pump units built or sold by CM for twelve (12) months from date of unit start-up or eighteen (18) months from date of shipment (from CM's factory), whichever comes first; and, (2) Repair and replacement parts, which are not supplied under warranty, for ninety (90) days from date of shipment (from factory).

Warranty parts shall be furnished by CM if ordered through an authorized sales representative of CM ("Representative") within sixty (60) days after the failure of the part. If CM determines that a parts order qualifies for replacement under CM's warranty, such parts shall be shipped freight prepaid to the Representative or the ultimate user, as requested by Representative. All duties, taxes and other fees shall be paid by the ultimate user through the Representative.

If requested by CM, all defective parts shall be returned to CM's factory in Oklahoma City, Oklahoma, U.S.A., freight and duty prepaid, not later than sixty (60) days after the date of the request. If the defective part is not timely returned or if CM determines the part to not be defective or otherwise not to qualify under CM's Limited Express Warranty, CM shall invoice Customer the costs for the parts furnished, including freight. The warranty on any part repaired or replaced under warranty expires at the end of the original warranty period.

This warranty does not cover and does not apply to: (1) Air filters, fuses, refrigerant, fluids, oil; (2) Products released after initial installation; (3) Any portion or component of any system that is not supplied by CM, regardless of the cause of the failure of such portion or component; (4) Products on which the unit identification tags or labels have been removed or defaced; (5) Products on which payment by Customer to CM or its distributors or Representatives, or the Customer's seller is in default; (6) Products which have defects or damage which result from improper installation, wiring, electrical imbalance characteristics or maintenance; or from parts or components manufactured by others; or are caused by accident, misuse, negligence, abuse, fire, flood, lightning, alteration or misapplication of the product; (7) Products which have defects or damage which result from a contaminated or corrosive air or liquid supply, operation at abnormal temperatures or flow rates, or unauthorized opening of the refrigerant circuit; (8) Mold, fungus or bacteria damages; (9) Products subjected to corrosion or abrasion; (10) Products, parts or components manufactured or supplied by others; (11) Products which have been subjected to misuse, negligence or accidents; (12) Products which have been operated in a manner contrary to CM's printed instructions; (13) Products which have defects, damage or insufficient performance as a result of insufficient or incorrect system design or the improper application, installation, or use of CM's products; or (14) Electricity or fuel costs, or any increases or unrealized savings in same, for any reason.

CM is not responsible for: (1) The cost of any fluids, refrigerant or other system components, or the associated labor to repair or replace the same, which is incurred as a result of a defective part covered by CM's Limited Express Warranty; (2) The cost of labor, refrigerant, materials or service incurred in diagnosis and removal of the defective part, or in obtaining and replacing the new or repaired part; (3) Transportation costs of the defective part from the installation site to CM or of the return of any part not covered by CM's Limited Express Warranty; or (4) The costs of normal maintenance.

**Limitation:** This Limited Express Warranty is given in lieu of all other warranties. If, notwithstanding the disclaimers contained herein, it is determined by a court or other qualified judicial body that other warranties exist, any such warranty, including without limitation any express warranty or any implied warranty of fitness for particular purpose and merchantability, shall be limited to the duration of the Limited Express Warranty. This Limited Express Warranty does not exclude any warranty that is mandatory and that may not be excluded under applicable imperative law.

**LIMITATION OF REMEDIES**

In the event of a breach of this Limited Express Warranty or any warranty that is mandatory under applicable imperative law, CM will only be obligated at CM's option to either repair the failed part or unit or to furnish a new or rebuilt part or unit in exchange for the part or unit which has failed. If after written notice to CM's factory in Oklahoma City, Oklahoma, U.S.A. of each defect, malfunction or other failure and a reasonable number of attempts by CM to correct the defect, malfunction or other failure and the remedy fails of its essential purpose, CM shall refund the purchase price paid to CM in exchange for the return of the sold good(s). Said refund shall be the maximum liability of CM. **TO THE FULLEST EXTENT PERMITTED BY APPLICABLE LAW, THIS REMEDY IS THE SOLE AND EXCLUSIVE REMEDY OF THE CUSTOMER AGAINST CM FOR BREACH OF CONTRACT, FOR THE BREACH OF ANY WARRANTY OR FOR CM'S NEGLIGENCE OR IN STRICT LIABILITY.**

**LIMITATION OF LIABILITY**

CM shall have no liability for any damages if CM's performance is delayed for any reason or is prevented to any extent by any event such as, but not limited to: any war, civil unrest, government restrictions or restraints, strikes, or work stoppages, fire, flood, accident, allocation, shortages of transportation, fuel, materials, or labor, or any other reason beyond the sole control of CM. **TO THE FULLEST EXTENT PERMITTED BY APPLICABLE LAW AND SUBJECT TO THE NEXT SENTENCE, CM EXPRESSLY DISCLAIMS AND EXCLUDES ANY LIABILITY FOR LOSS OF PROFITS, LOSS OF BUSINESS OR GOODWILL, CONSEQUENTIAL, INCIDENTAL, SPECIAL, LIQUIDATED, OR PUNITIVE DAMAGE IN CONTRACT, FOR BREACH OF ANY EXPRESS OR IMPLIED WARRANTY, OR IN TORT, WHETHER FOR CM'S NEGLIGENCE OR AS STRICT LIABILITY.** Nothing in this Agreement is intended to exclude CM's liability for death, personal injury or fraud.

**OBTAINING WARRANTY PERFORMANCE**

Normally, the contractor or service organization who installed the products will provide warranty performance for the owner. Should the installer be unavailable, contact any CM recognized Representative. If assistance is required in obtaining warranty performance, write or call:

Climate Master, Inc. • Customer Service • 7300 S.W. 44th Street • Oklahoma City, Oklahoma, U.S.A. 73179 • (405) 745-6000 • FAX (405) 745-6068

**NOTE:** Some countries do not allow limitations on how long an implied warranty lasts, or the limitation or exclusions of consequential or incidental damages, so the foregoing exclusions and limitations may not apply to you. This warranty gives you specific legal rights, and you may also have other rights which vary from state to state and country to country.

Please refer to the CM Installation, Operation and Maintenance Manual for operating and maintenance instructions.



Created: 10/09

Models:  
SK  
024-060

## Revision History

Date	Section	Description
3/13/25	Created	



A NIBE GROUP MEMBER

7300 SW 44<sup>th</sup> St | Oklahoma City, OK 73179  
Phone: 800.299.9747  
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