

INSTALLER'S GUIDE

18-HE130D1-1A-EN

ALL phases of this installation must comply with NATIONAL, STATE AND LOCAL CODES

Piping Instructions for Condensing Unit Compressor Replacements:

Use with KIT number:

KIT18829

Recip to Scroll Compressor change

IMPORTANT – This Document is customer property and is to remain with this unit. Please return to service information pack upon completion of work.

⚠ WARNING: HAZARDOUS VOLTAGE – DISCONNECT POWER and DISCHARGE CAPACITORS BEFORE SERVICING

Section 1. Safety Information

IMPORTANT: Read this entire manual before beginning installation procedures.

Read this manual carefully before attempting to install, operate, or perform maintenance on this unit. Installation and maintenance should be performed by qualified service technicians only.

NOTE: "Warnings" and "Cautions" appear at appropriate places in this manual. Your personal safety and the proper operation of this air conditioning product require that you follow them carefully. The manufacturer assumes no liability for installations or servicing performed by unqualified personnel.

NOTICE

WARNING AND CAUTIONS APPEAR AT APPROPRIATE LOCATIONS THROUGHOUT THIS GUIDE. READ THESE CAREFULLY.

⚠ WARNING: INDICATES A POTENTIALLY HAZARDOUS SITUATION WHICH, IF NOT AVOIDED, COULD RESULT IN DEATH OR SERIOUS INJURY.

⚠ CAUTION: Indicates a potentially hazardous situation which, if not avoided, may result in minor or moderate injury. It may also be used to alert against unsafe practices and where property-damage-only accidents could occur.

⚠ WARNING

SAFETY HAZARD!

This information is for use by individuals having adequate backgrounds of electrical and mechanical experience. Any attempt to repair a central air conditioning product may result in personal injury and/or property damage. The manufacturer or seller cannot be responsible for the interpretation of this information, nor can it assume any liability in connection with its use.

⚠ WARNING

SAFETY HAZARD!

Bodily injury can result from high voltage electrical components, fast moving fans, and combustible gas. For protection from these inherent hazards during installation and service, the electrical supply must be disconnected and the main gas valve must be turned off. If operating checks must be performed with the unit operating, it is the technicians responsibility to recognize these hazards and proceed safely.

⚠ WARNING

SAFETY HAZARD!

Do not operate the unit without the evaporator fan or coil access panels in place. Reinstall the access panels after performing maintenance procedures on the fan. Operating the unit without the access panels properly installed may result in severe personal injury or death.

⚠ WARNING

WARNING!

This product can expose you to chemicals including lead, which are known to the State of California to cause cancer and birth defects or other reproductive harm. For more information go to www.P65Warnings.ca.gov

⚠ CAUTION

CONTAINS REFRIGERANT!

SYSTEM CONTAINS OIL AND REFRIGERANT UNDER HIGH PRESSURE. RECOVER REFRIGERANT TO RELIEVE PRESSURE BEFORE OPENING SYSTEM. Failure to follow proper procedures can result in personal illness or injury or severe equipment damage.

⚠ CAUTION

RECONNECT ALL GROUNDING DEVICES.

All parts of this product that are capable of conducting electrical current are grounded. If grounding wires, screws, straps, clips, nuts, or washers used to complete a path to ground are removed for service, they must be returned to their original position and properly fastened.

⚠ CAUTION

Unit contains R-410A Refrigerant!

R-410A operating pressure exceeds the limit of R-22. Proper service equipment is required. Failure to use proper service tools may result in equipment damage or personal injury.

SERVICE

Use only R-410A Refrigerant and approved POE compressor oil.

⚠ CAUTION

Hot Surface!

Do Not touch top of compressor. May cause minor to severe burning.

Important: Make sure to follow all safety precautions in the unit Installer's Guide.

Important: Make certain that the unit has been installed in a level position to ensure proper draining.

IMPORTANT: Proper refrigerant charge and proper air flow are critical to achieve rated capacity and efficiency. Installation of this product should follow the manufacturer's refrigerant charging and air flow instructions. **Failure to confirm proper charge and airflow may reduce energy efficiency and shorten equipment life.**

IMPORTANT: Reconnect all grounding devices. All parts of this product capable of conducting electrical current are grounded. If grounding wires, screws, straps, clips, nuts, or washers used to complete a path to ground are removed for service, they must be returned to their original position and properly fastened.

IMPORTANT: Wear appropriate gloves, arm sleeve protectors, and eye protection when servicing or maintaining this equipment.

Section 2. Installation

STEP 1 - Recover refrigerant, disconnect power leads and remove mounting bolts from the existing compressor. Debraze or cut piping to disconnect from the compressor (Tip: When disconnecting piping from the compressor, disconnect close to compressor). If a start kit is installed, remove it.



STEP 2 - Remove the compressor from the unit.



STEP 3 - On heat pump units only, install the sump heater prior to setting the new compressor inside of the unit.



Pictured are Factory supplied tubing and additional copper fittings (Field supplied).



STEP 4 - Set the new compressor inside of the unit with the piping connections 180 degrees from the point that the tubing passes under the coil. Tighten the mounting bolts. Use the Trane-supplied tubing connectors, bolts, grommets and any additional copper fittings (field supplied) to dry-fit the pipes before brazing.

STEP 5 - Replace liquid line drier in the outdoor coil section of the unit. Braze piping connections, leak check with nitrogen, vacuum and recharge per data plate.



STEP 6 - Install new compressor power leads, connect crankcase heater wires (heat pump only), reconnect LPCO wires, and secure any other wires that were moved during the compressor replacement. Replace run capacitor if required in parts notes. Run-test system for proper operation.

Note: After and prior to start-up of the new compressor, ensure that all piping and wiring are not in contact with the access panels when reinstalled.

Note: If discharge line vibration is an issue, order part numbers CMP01450 & BAR00178 (clamp and bar).

Note: If powered reverse rotation becomes a problem on single-phase units, order part number RLY03032 (time delay relay).