

Installation Instructions

# **Location of Parts**

Compressor Motor Change Out Kit KIT16321

Model Number: CVHE

## A SAFETY WARNING

Only qualified personnel should install and service the equipment. The installation, starting up, and servicing of heating, ventilating, and air-conditioning equipment can be hazardous and requires specific knowledge and training. Improperly installed, adjusted or altered equipment by an unqualified person could result in death or serious injury. When working on the equipment, observe all precautions in the literature and on the tags, stickers, and labels that are attached to the equipment.

May 2020

#### PART-SVN142B-EN © 2020 Trane

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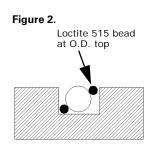
grooved O-ring joints as follows:

- Inspect O-ring groove for nicks and scratches. Minor surface scratches or nicks can be repaired by filling the imperfection with a soft soldering material, then filing or sanding to a smooth finish.
- Apply a bead of Loctite 515 (1/8-in. dia. max) to the entire circumference of the bottom I.D. of the O-ring groove as shown in Figure 1.
- Place the O-ring into the groove and gently press it into sealant.

**Note:** O-rings should not be stretched more than 5 percent of their I.D. dimension once seated in the groove.

• Apply a bead of Loctite 515 (1/8-in. dia. max) to the entire circumference between the O-ring and top O.D. of the groove as shown in Figure 2.

Figure 1. Loctite 515 bead at 1.D. bottom



A WARNING

Proper Field Wiring and Grounding Required! Failure to follow code could result in death or serious injury. All field wiring

MUST be performed by qualified personnel. Improperly installed and grounded field wiring poses FIRE and ELECTROCUTION hazards. To avoid these hazards, you MUST follow requirements for field wiring installation and grounding as described in NEC and your local/state electrical codes.

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#### **Personal Protective Equipment Required!**

Installing/servicing this unit could result in exposure to electrical, mechanical and chemical hazards. Before installing/servicing this unit, technicians MUST put on all Personal Protective Equipment (PPE) recommended for the work being undertaken. ALWAYS refer to appropriate SDS sheets and OSHA guidelines for proper PPE. When working with or around hazardous chemicals, ALWAYS refer to the appropriate SDS sheets and OSHA guidelines for information on allowable personal exposure levels, proper respiratory protection and handling recommendations. If there is a risk of arc or flash, technicians MUST put on all necessary Personal Protective Equipment (PPE) in accordance with NFPA70E for arc/flash protection PRIOR to servicing the unit. Failure to follow recommendations could result in death or serious injury.

Some of these kits are intended for more than one size or type of unit and may contain additional parts not required for the particular unit in which the kit is being installed. Check the unit parts list if questions arise as to use of individual components.

Trane recommends using Loctite<sup>®</sup> 515 Gasket Eliminator on all refrigerant to atmospheric O-ring connections (except suction elbows to compressor connection) on centrifugal chillers using R-11, R-113, and R-123. Loctite 515 Gasket Eliminator is available from the Trane Company in 50-mL tubes (SEL00922) and 300-mL caulking tubes (SEL00376). Refer to KIT09237 for more information on Loctite and its installation. To ensure leak free joints after rebuild, apply Loctite 515 to

# Warnings, Cautions, and Notices

Read this manual thoroughly before operating or servicing this unit. Safety advisories appear throughout this manual as required. Your personal safety and the proper operation of this machine depend upon the strict observance of these precautions.

The three types of adv	visories are defined as follows:
	Indicates a potentially hazardous situation which, if not avoided, could result in death or serious injury.
A CAUTION	Indicates a potentially hazardous situation which, if not avoided, could result in minor or moderate injury. It could also be used to alert
NOTICE	Indicates a situation that could result in equipment or property-damage only accidents.

### Important Environmental Concerns

Scientific research has shown that certain man-made chemicals can affect the earth's naturally occurring stratospheric ozone layer when released to the atmosphere. In particular, several of the identified chemicals that may affect the ozone layer are refrigerants that contain Chlorine, Fluorine and Carbon (CFCs) and those containing Hydrogen, Chlorine, Fluorine and Carbon (HCFCs). Not all refrigerants containing these compounds have the same potential impact to the environment. Trane advocates the responsible handling of all refrigerants-including industry replacements for CFCs such as HCFCs and HFCs.

### Important Responsible Refrigerant Practices

Trane believes that responsible refrigerant practices are important to the environment, our customers, and the air conditioning industry. All technicians who handle refrigerants must be certified according to local rules. For the USA, the Federal Clean Air Act (Section 608) sets forth the requirements for handling, reclaiming, recovering and recycling of certain refrigerants and the equipment that is used in these service procedures. In addition, some states or municipalities may have additional requirements that must also be adhered to for responsible management of refrigerants. Know the applicable laws and follow them.

Part #	Qty.	Location and Use
RNG02116	1	O-Ring; compressor to suction elbow
RNG02177	1	O-Ring; suction elbow to evaporator
GKT04426	2	Gasket; liquid line
GKT04459	1	Gasket; 3rd stage vane operator mounting
GKT01319	1	Gasket; bearing oil seal mounting
GKT01320	2	Gasket; bearing oil seal
GKT04416	2	Gasket; compressor motor liquid return
GKT04402	2	Gasket; compressor motor liquid supply
GKT04461	2	Gasket; compressor to economizer
RNG02133	1	O-ring; 1st stage casting
RNG02132	1	O-ring; 2nd stage casting
RNG02132	1	O-ring; 3rd stage casting
RNG02113	1	O-ring; motor housing
RNG02145	1	O-ring; 1st stage vane operator mounting
GKT04446	1	Gasket; oil tank cover
GKT04402	2	Gasket; oil drain line
RNG02174	1	O-ring; 13.475 ID x 0.275 RD
NUT00639	1	Locknut
WAS00563	1	Lockwasher
SCR00312	32	Screw; cap
SHM00178 *	1	Shim; 6 x 0.050
SHM00179 *	1	Shim; 6 x 0.002
SHM00180 *	2	Shim; 6 x 0.005
SHM00181 *	1	Shim; 6 x 0.010
SHM00182 *	1	Shim; 6 x 0.020
SHM00194 *	1	Shim; 6 x 0.100

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Part #	Qty.	Location and Use	
SPC00191	1	Spacer; 5.4 X 0.120	
SCR02146	16	Screw	
WAS01050	40	Washer; Ramp, 2 pieces = 1 pair	

Shims as required

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Trane has a policy of continuous product and product data improvement and reserves the right to change design and specifications without notice. We are committed to using environmentally conscious print practices.

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