

Installation manual seals compressor A/C Thermo King X430 (1")



This shaft seal uses a carbon ring in the bellows assembly, and a silicon carbide stationary ring in the seal plate. These are the same proven materials that are used in Carrier compressors today.

CAUTION: It is critical to protect the polished surfaces of the new seal from dirt and damage. Precautions should be taken not to touch these surfaces with anything but a clean, soft cloth, or the proper installation tool. Any dirt, scratches or debris on the surfaces can cause a leak after assembly.

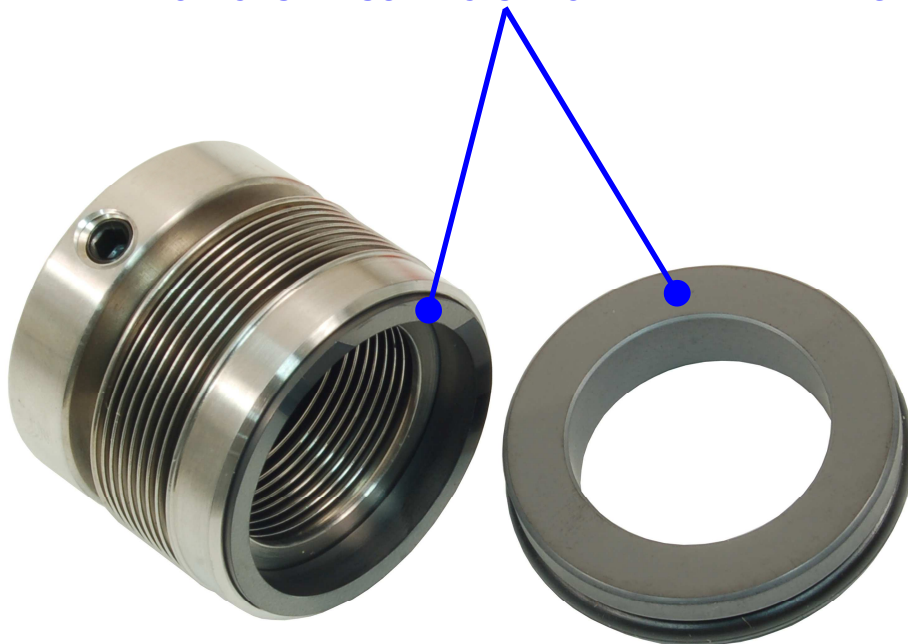
Instructions.

1. Remove seal plate from compressor and scrape off old gasket from both surfaces.
2. Loosen the set screws on the old seal with a 1/8" allen wrench, (for TK O.E. seals and Newer Carrier seals) or a 5/32" allen wrench (for older Carrier seals).
Note: Set screws need to be loosened so at least one thread is showing. This will insure that the screws will not scrape the shaft surface during removal.
3. Remove old seal and mating ring, being careful not to scratch the shaft.
Note: If shaft is rusty or dirty, use scotch bright or crocus cloth to clean the shaft before assembling the new seal. Avoid making flat spots or reducing the shaft diameter.
4. Install a new oil seal into the seal plate.
5. Lubricate the outer diameter of the stationary seal O-ring with clean, compatible compressor oil.
Note: Mating ring materials is very brittle. Do not bump against shaft or any other hard surface. Avoid touching seal surfaces.
6. Press stationary seal firmly into the front seal plate using an installation tool to protect the seal surface.
7. Apply clean, compatible compressor oil to the shaft and inside O-ring of the bellows assy.



- Apply a small amount (Loctite 242-31) to the set screws threads. Slide the bellows assy all the way onto shaft until it contacts the shoulder of the crankshaft. Hold in place while tightening the set screws. Tighten the set screws to approximately 5Nm.
8. Apply clean, compatible refrigerant oil to the mating ring and bellows seal surfaces prior to assembly.
 9. Install the front seal plate and torque to the OEM's latest specifications. Be careful not to bump the mating ring during installation of the seal plate.
 10. Run the compressor for a while and check for leaks. If seal is leaking, run the compressor for a few more minutes and check again. Seal make take a few minutes to seat.

PROTECT SEAL SURFACES FROM DIRT AND DAMAGE



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