

Austin Cryogenics Company

Seal And O-Ring Repair Kit

For Cryo-Torr®* 8/8F and Cryo-Plex®** 8/LP Cryopumps

P/N: 100130

Kit includes Items	ITEM DESCRIPTION	QTY
1	Seal, #2, CT-8/8F	1
9	Seal, #1, CT-8/8F	1
15	Kap-Seal Gland	1
17	O-Ring, Scotch Yoke Gland	2
20	O-Ring, Crankcase	1
21	O-Ring, Valve Plate/Vessel, CT-8/8F	1
33	O-Ring, Valve Body	2
37	Seal, Inlet Valve, CT-8/8F	1
39	O-Ring, Bottom Crankcase Plug	1
43	O-Ring, Guide Pin Plug & R.V.	3
46	O-Ring, Sight Glass	1

Warning Make sure the cryopump and compressor are disconnected from any power source before beginning any work. **Make sure the unit has been depressurized of helium gas before performing any work on the unit.** Follow all of the recommended safety guidelines in your OEM cryopump operations manual.

This seal kit was specially designed for the technician who needs to perform a quick and simple maintenance procedure on a pump while replacing the pump 15K Arrays or while the main vacuum system is down for other repairs. Included in the kit are the main seals that are critical to improving your pumps performance. Do not attempt to re-adjust the cryopumps timing unless you have special timing tools and you are an experienced cryopump technician. Any signs of unusual wear to the bearings or the scotch yoke could be signs of more serious problems. Wear the clean room gloves provided with the kit while handling the new components.

The displacers and the displacer cylinder can be wiped clean using a lint-free cloth and Isopropyl Alcohol. Inspect the displacer cylinder for any unusual wear or scaring. When all repairs are complete and you are ready to reinstall the unit back into the cryopump vessel, locate the seal insertion tool (wedding band) that is located in the gland between the #1 and #2 displacers on your existing pump. Place this metal band around the #2 displacer seal assy. The #2 seal assy. should be in the groove at the top of the #2 displacer. The metal band collapses the seal in order to slide into the displacer cylinder. Lift the complete drive unit and displacer assy. above the cryopump vessel and **slowly** lower the unit down into the displacer cylinder hole. As the #2 displacer seal enters the cylinder the metal band will slide off of the seal. Do not force the unit into the hole, this could scar the outer surface of the seal. Repeat if necessary.

*Cryo-Torr®-8 is a registered trademark of Helix Technology Corp., Brooks Automation

**Cryo-Plex®-8 is a registered trademark of Austin Scientific Co., Oxford Instruments