MUELLER REFRIGERATION

INSTALLATION INSTRUCTIONS

# DRYMASTER® REPLACEABLE CORE SHELLS

**1. Isolation & Evacuation**

**1.1 Evacuate Replaceable Shell:** Isolate the replaceable core shell and evacuate any trapped refrigerant.

**2. Shell Access**

**2.1 Loosen Shell Bolts:** Carefully loosen the bolts securing the DRYMASTER® shell lid. **Do not fully remove the bolts at this stage.**

**2.2 Break O-ring Seal:** With the bolts slightly loosened, carefully release any residual pressure within the shell by breaking the seal of the O-ring.

**2.3 Remove Lid Assembly:** Once depressurized, remove the lid, bolts, washers, and spring. Ensure all components are secured to prevent misplacement.

**3. Core Assembly Removal**

**3.1 Extract Core Assembly:** Utilize the wing nut to extract the core assembly from the shell.

**3.2 Dismantle Wing Nut Assembly:** Unscrew the wing nut from the connecting rod and plate.

**3.3 Remove Inlet Plate:** Detach the inlet plate from the shell.

**3.4 Remove Contaminated Components:** Remove the used core(s), filter media, and any associated gasket material. For shells containing multiple cores, remove the separator plates and gaskets between each core.

**3.5 Internal Cleaning:** Conduct a thorough inspection and cleaning of all internal components within the shell.

**4. Core Assembly Installation**

**4.1 Prepare New Core (Optional):** If installing a new core, it's recommended to lay out all internal components beforehand (refer to ***Figure 1***) to streamline reassembly and minimize exposure time of the new core to ambient air.

**4.2 Install New Core and Gaskets:** Following ***Figure 1*** as a guide, install the new core and gaskets within the outlet screen plate. For multi-core configurations, incorporate additional cores, gaskets, and separator plates as necessary. Ensure the tapered end(s) of the core(s) face the outlet plate.

**4.3 Reassemble Filter Unit:** Reinstall the inlet plate and tighten the assembly securely using the wing nut.

**5. DRYMASTER® Shell Closure Preparation**

**5.1 O-ring Replacement (Recommended):** It is highly recommended to replace the O-ring seal with a new one (Mueller part number P-37098).

**5.2 O-ring Lubrication:** Apply a light coating of refrigerant oil to the new O-ring seal.

**5.3 Spring Installation:** Refer to ***Figure 1*** to ensure proper placement of the spring, verifying it doesn't interfere with the wing nut operation.

**6. DRYMASTER® Shell Closure**

**6.1 Lid Alignment:** Align the slotted hole on the lid with the pre-installed bolt in the shell flange. Ensure the lock washer is on top of the lid.

**6.2 Compress Spring and Install Bolts:** Compress the spring by pressing down on the lid. Then, hand-tighten the remaining bolts and lock washers.

**6.3 Final Bolt Tightening:** Figure 2 indicates the tightening pattern (1 through 8). Do not initially tighten any bolt to full torque. Tighten each bolt intermittently, repeatedly moving through the pattern to gradually increase the torque until all bolts reach their final value.

Bolt torque w/ O-ring =15 to 20 ft/lbs.

Bolt torque w/ Flat Gasket = 25 ft/lbs.

**7. System Finalization**

**7.1 System Evacuation:** Perform a proper evacuation of the serviced section of the system.

**7.2 Leak Detection:** Conduct a thorough leak detection test on the DRYMASTER® shell assembly.

**7.3 System Restart:** Upon successful completion of leak testing, restart the system and return it to normal operation.

***Figure 1: Assembly Sequence***

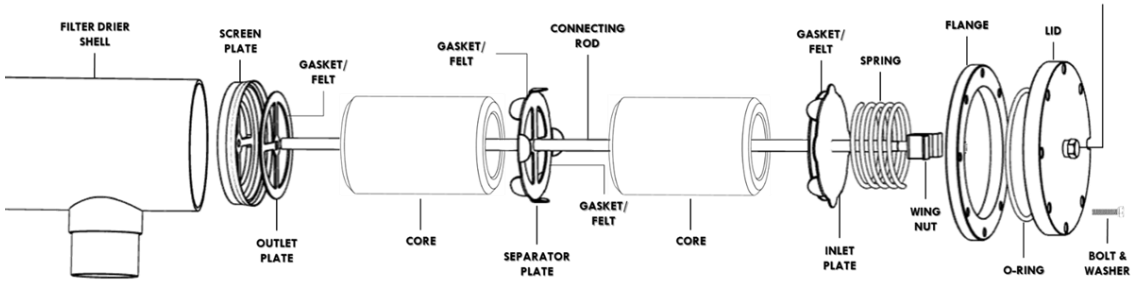


***Figure 2: Bolt Torque Sequence***