The Zeolite desiccant for the molecular sieve traps is shipped in separate container(s). Follow the instructions below to install new or replace existing media.

**Handling:** Handle and open container with care. Avoid formation of dust particles. Avoid contact with skin and eyes. Provide an electrical ground connection during loading and transfer operations to avoid static discharge in an explosive atmosphere and to prevent persons handling the product from receiving static shocks. A copy of UOP's booklet, "Precautions and Safe Practices for Handling Molecular Sieves in Process Units:, M-100C, can be obtained from your UOP representative at no cost.

**Storage:** Store in original container. Keep in a dry place.

1. Loosen clamp nut to remove clamp and trap top assembly. Follow appropriate safety measures regarding possible contaminants present in trap.
2. Remove nut and washer holding screen end cap on basket. Remove end cap.
3. If replacing, dispose of Zeolite safely and in accordance with all company, local and national safety and environmental requirements.
4. Trap body may be cleaned with an appropriate alkaline detergent, followed by a thorough Deionized water rinse, then wiped down with methanol or other compatible cleaner. Allow to air dry.
5. Install new Zeolite in basket.
6. Gently tap the basket to compact the Zeolite then reinstall the screen end cap.
7. The o-ring should be cleaned before reassembling the trap. When dry, inspect for any nicks, flat spots or cracking; replace o-ring if any defects are found.
8. Prior to assembling the trap, lubricate o-ring with Krytox LVP or a similar lubricant. Wipe off excess lube and inspect to see that the o-ring surface has a uniform shiny appearance.
9. Install the o-ring and top assembly so both are seated uniformly.

10. When tightening the band clamp, a gap of approximately .050” should exist between the flared ends of the trap body and the top assembly. The gap at the ends of the band clamp should be approximately .500” when the proper torque of 100 inch pounds is reached. Do not over tighten clamp -- this will only serve to damage the clamp or trap components, and possibly promote leaks.

11. If the trap is found to leak after assembly, disassemble and inspect or replace o-ring; follow previous instructions for re-assembly.
Leak rate > 1x10-7 Torr

---

**WARNING !**

Zeolite is a desiccant and will absorb material from your process system. You must take suitable precautions to protect people from the harmful effects of any noxious material released if you bake the spent zeolite to reactivate it. Avoid inhalation of its dust, eye contact and unnecessary skin contact.

**Disposal information:** This product (in its fresh unused state) is not listed by generic name or trademark name in the U.S. EPA's RCRA regulations and does not possess any of the four identifying characteristics of hazardous waste (ignitability, corrosivity, reactivity or toxicity). Materials of a hazardous nature that contact the product during normal use may be retained on this product. The user of the product must identify the hazards associated with the retained material in order to assess the waste disposal options. For a complete MSDS please contact Nor-Cal Products.
FTM Trap Service Guidelines

Bake out Instructions

The molecular sieve traps perform a dual function. A zeolite desiccant removes hydrocarbons which back-stream toward the chamber when the mechanical pump oil is at its vapor pressure. Also, the zeolite traps water vapor and other gases before they reach the mechanical pump and contaminate the pump oil. Depending on the process, this can reduce the oil change frequency significantly.

A molecular sieve charge and regeneration heater is included with every trap. Regeneration heaters are available for 110-120V or 208-240V operation. Custom voltages and wattages are available upon request. The heater is secured to the trap allowing them to be mounted in any orientation.

When initializing a trap or when base pressure cannot be achieved, the zeolite sieve should be replaced or regenerated. To regenerate, apply power to the heater for the times shown below while running the mechanical pump with its ballast valve open. The frequency and duration of the sieve regeneration is dependent upon the kind and amount of gasses produced by the particular application. The sieve can typically be regenerated 4-6 times before needing to be replaced. To replace the sieve material, follow the instructions on page 1 & 2.

Follow all national, state and local electrical regulations when connecting the heater to power. The operating temperature of the heater is not controlled. If you desire to operate the heater at a defined temperature, a temperature control device will need to be installed.

WARNING!
The surface of the trap body will be extremely hot during the bake out process. Temperatures in excess of 200°C could be reached. Take all necessary and appropriate safety precautions to ensure that the trap cannot be touched during the bake out and cooling process.

Recommended bake out times

<table>
<thead>
<tr>
<th>VOLTAGE</th>
<th>TIME</th>
</tr>
</thead>
<tbody>
<tr>
<td>110-120VAC</td>
<td>1 – 1.5 hours</td>
</tr>
<tr>
<td>208VAC</td>
<td>2 - 2.5 hours</td>
</tr>
<tr>
<td>220VAC</td>
<td>1.5 – 2 hours</td>
</tr>
<tr>
<td>240VAC</td>
<td>1 – 1.5 hours</td>
</tr>
</tbody>
</table>

Your bake out time may vary from the ones recommended above.

Replacement Charges

<table>
<thead>
<tr>
<th>PART NUMBER</th>
<th>DESCRIPTION</th>
</tr>
</thead>
<tbody>
<tr>
<td>FT-4-MS</td>
<td>1 lb. Zeolite charge, 4” trap requires ¾ lb.</td>
</tr>
<tr>
<td>FT-6-MS</td>
<td>2 lb. Zeolite charge, 6” trap requires 1 ½ lb.</td>
</tr>
<tr>
<td>FT-8-MS</td>
<td>5 lb. Zeolite charge, 8” trap, requires 4 ¾ lb.</td>
</tr>
</tbody>
</table>

Your bake out time may vary from the ones recommended above.