TARGA® II HOLLOW FIBER CARTRIDGES
10-inch Water Ultrafiltration Cartridges

PRODUCT DESCRIPTION

Membrane Chemistry:
Proprietary Semi-Permeable Polyethersulfone

Molecular Weight Cutoff:
100,000

Housing Shell:
PVC

Fiber Support Netting:
Polypropylene/Polyethylene

Permeate Collection Tube:
PVC

Potting Material:
Proprietary Compound

Membrane Construction:
Hollow Fiber

Storage Solution:
Glycerin

PRODUCT SPECIFICATIONS

<table>
<thead>
<tr>
<th>Model</th>
<th>Fiber Diameter [inch (mm)]</th>
<th>Membrane Area [ft² (m²)]</th>
<th>Typical Production Range [gpm (m³/hr)]</th>
</tr>
</thead>
<tbody>
<tr>
<td>TARGA II 10048-35</td>
<td>0.035 (0.9)</td>
<td>554 (51.5)</td>
<td>15.4 - 32.2 (3.5 - 7.4)</td>
</tr>
<tr>
<td>TARGA II 10072-35</td>
<td>0.035 (0.9)</td>
<td>871 (80.9)</td>
<td>24.2 - 51.4 (5.5 - 11.6)</td>
</tr>
</tbody>
</table>

OPERATING & DESIGN INFORMATION

Maximum Pressure (water):
45 psi (3.0 bar) @ 104° F (40° C) or less

Temperature Range:
32° F (0° C) - 104° F (40° C)

Maximum Production Transmembrane Pressure:
30 psi (2.1 bar)

Maximum Backflush Transmembrane Pressure:
25 psi (1.7 bar)

Maximum Total Chlorine @ 77° F (25° C) or lower:
500 ppm @ > 9.5 pH

NOMINAL DIMENSIONS*

<table>
<thead>
<tr>
<th>Model</th>
<th>Fiber Diameter (ID)</th>
<th>D Inches (mm)</th>
<th>L Inches (mm)</th>
</tr>
</thead>
<tbody>
<tr>
<td>TARGA II 10048-35</td>
<td>0.035 inch (0.9 mm)</td>
<td>10.75 (273)</td>
<td>48 (1219)</td>
</tr>
<tr>
<td>TARGA II 10072-35</td>
<td>0.035 inch (0.9 mm)</td>
<td>10.75 (273)</td>
<td>72 (1829)</td>
</tr>
</tbody>
</table>

* Dimensions are provided for reference only and should not be interpreted as accurate specifications.
CARTRIDGE STORAGE CONDITIONS:

New cartridges are impregnated with glycerin. Glycerin should be removed from new cartridges before initial use with a rinse followed by a caustic wash and then a caustic/chlorine wash. See pre-startup cleaning instruction sheet packed with each cartridge shipment.

New cartridges should be stored in their original shipping containers and crates until ready for installation, as follows:

- Indoors, out of direct sunlight.
- Temperatures between 50 – 85° F (10 – 30° C).
- Relative humidity below 70%.
- In a horizontal position.

Used cartridges should be cleaned, rinsed and impregnated before storage with one of the following solutions:

- Glycerin @ 80 – 100% (best)
- Phosphoric acid @ pH 2 – 3
- Benzoic acid or sodium benzoate @ 1,000 ppm
- Sodium bisulfite or sodium metabisulfite @ 1,000 – 5,000 ppm

Cartridges stored in sodium bisulfite or sodium metabisulfite should be flushed with clean water and impregnated with fresh solution at six-month intervals. Once impregnated the cartridges should be left on the system with all valves closed or removed from the system and sealed in plastic bags. Storage conditions described above for new cartridges should also be used for storage of used cartridges. Cartridges must be drained, rinsed, and cleaned after storage per the pre-startup cleaning instruction sheet packed with each cartridge shipment.

CARTRIDGE ASSEMBLY AND COMPONENTS:

<table>
<thead>
<tr>
<th>Item</th>
<th>Description</th>
<th>KMS Part Number</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>10&quot; HF Cartridge</td>
<td>1 each</td>
</tr>
<tr>
<td>2</td>
<td>10&quot; HF clamp</td>
<td>2 each</td>
</tr>
<tr>
<td>3</td>
<td>10&quot; HF K-Ring</td>
<td>2 each</td>
</tr>
<tr>
<td>4</td>
<td>10&quot; HF Cartridge Support</td>
<td>1 each</td>
</tr>
<tr>
<td>5</td>
<td>2&quot; Groove-End Coupling</td>
<td>3 each*</td>
</tr>
<tr>
<td>6</td>
<td>10&quot; Plastic Pass Kit</td>
<td>1 each**</td>
</tr>
<tr>
<td>7</td>
<td>10&quot; Plastic Plug Pass Kit</td>
<td>1 each</td>
</tr>
<tr>
<td>8</td>
<td>10&quot; HF Seal Pass Kit</td>
<td>1 each</td>
</tr>
</tbody>
</table>

* Need to use 4 couplings if removing permeate from both ends of the cartridge.
** Need 2 of these items if removing permeate from both ends of the cartridge.

The information contained in this publication is believed to be accurate and reliable, but is not to be construed as implying any warranty or guarantee of performance. We assume no responsibility, obligation or liability for results obtained or damages incurred through the application of the information contained herein. Refer to Standard Terms and Conditions of Sale and Performance Warranty documentation for additional information.