MODEL: 817-UF(PS3)

Microfiltration Full-Fit™ Membrane Element

Pretreatment of RO and NF

**ELEMENT SPECIFICATIONS**

<table>
<thead>
<tr>
<th>Model</th>
<th>Flux rate</th>
<th>Active Area</th>
<th>Molecular Weight Cut-Off</th>
<th>Part Number</th>
</tr>
</thead>
<tbody>
<tr>
<td>817-UF(PS3)</td>
<td>10-20</td>
<td>15-35</td>
<td>404</td>
<td>50-100K</td>
</tr>
</tbody>
</table>

**OPERATING AND DESIGN PARAMETERS**

Membrane: Polysulfone

Typical Operating Pressure: 25psig (174.6 kPa)

Maximum Pressure: 200psig (1397 kPa)

Maximum Temperature: 122°F (50°C)

Chlorine Tolerance: 5,000 ppm* days

Operating pH range: 2.0-11.0

Cleaning pH range: 2.0-11.5

Maximum Pressure Drop: 10 psig (69 kPa) per element

50 psig (345 kPa) per vessel

Feed NTU: <5

Typical Operating Flux: 10-30 GFD (15-50 L.H-1.M-2)

**ELEMENT DIMENSIONS AND WEIGHT**

<table>
<thead>
<tr>
<th>Model</th>
<th>A inches (mm)</th>
<th>B inches (mm)</th>
<th>C* inches (mm)</th>
<th>Weight lbs (kg)</th>
</tr>
</thead>
<tbody>
<tr>
<td>817-UF(PS3)</td>
<td>40 (1016)</td>
<td>1.13 (29)</td>
<td>7.9 (201)</td>
<td>42 (19.1)</td>
</tr>
</tbody>
</table>

* The element diameter (dimension C) is designed for optimum performance in Osmonics pressure vessels. Other pressure vessel dimension and tolerance may result in excessive bypass and loss of capacity.

**Notes:**

The Langelier Saturation Index (LSI) of the concentrate must be negative to minimize the possibility of calcium scale formation on the membrane surface.

The feedwater Silt Density Index (SDI) should be <5 to minimize membrane fouling and extend cleaning intervals.

The feedwater turbidity should be <1 Nephelometric Turbidity Units (NTU).

At start-up the first two hours of permeate should be discarded because of element preservative.

Storage conditions should be at a minimum of: <100°F, dry, in original carton and not in direct sunlight.