817-PR(CA)
Brakish Water Desalination Full-Fit™ Membrane Element
Reverse Osmosis, High Flux

ELEMENT SPECIFICATIONS

<table>
<thead>
<tr>
<th>Model</th>
<th>GPD</th>
<th>Flow</th>
<th>Active Area</th>
<th>Rejection</th>
</tr>
</thead>
<tbody>
<tr>
<td>817-PR(CA)</td>
<td>8,500</td>
<td>32.2</td>
<td>320</td>
<td>90.0%</td>
</tr>
</tbody>
</table>

Specifications are based on a 2000 mg/L NaCl solution at 320 psig operating pressure (2116 kPa), 77 deg F/25 deg C, 10% recovery, pH 6.5. Individual flux may vary ±25%/-15%. Average salt rejection after a minimum of 24 hours in continuous operation.

OPERATING AND DESIGN PARAMETERS

- Membrane: Cellulose Acetate
- Typical Operating Pressure: 140-400 psig (965-2760 kPa)
- Maximum Pressure: 450 psig (3143 kPa)
- Maximum Pressure Drop: 10 psig (69 kPa) per element
- Chlorine Tolerance: 1 ppm maximum, continuous 30 ppm for 30 min. during sanitization
- Typical Operating Flux: 10-20 GFD (17-34 L/H.M-2)
- Optimum rejection pH: 5.0 - 6.5
- Operating pH range: 5.0-6.5
- Cleaning pH range: 3.0-8.0
- Maximum Temperature: 86°F (30°C)
- Maximum Pressure Drop: 10 psig (69 kPa) per element
- Maximum Temperature: 86°F (30°C)
- Feed NTU: <1
- Feed SDI: <5

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-PR(CA)</td>
<td>40 (1016)</td>
<td>1.139 (29)</td>
<td>8.3 (211)</td>
<td>37.5 (17)</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.

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