817-LE( PA )

Brackish Water Desalination Full-Fit™ Membrane Element
Reverse Osmosis, Low Energy

ELEMENT SPECIFICATIONS

<table>
<thead>
<tr>
<th>Model</th>
<th>GPD</th>
<th>Flow</th>
<th>ft²</th>
<th>m²</th>
<th>Active Area</th>
<th>Rejection</th>
<th>Minimum</th>
<th>Part Number</th>
</tr>
</thead>
<tbody>
<tr>
<td>817-LE( PA )</td>
<td>10,200</td>
<td>38.6</td>
<td>350</td>
<td>32.5</td>
<td>99.0%</td>
<td>98.0%</td>
<td></td>
<td>1224502</td>
</tr>
</tbody>
</table>

Specifications are based on a 500 mg/L NaCl solution at 115 psig operating pressure (793 kPa), 77°deg.F, 25°deg.C, 10% recovery, pH 7.5. Individual flux may vary ±25% / ±15%. Average salt rejection after a minimum of 24 hours in continuous operation.

OPERATING AND DESIGN PARAMETERS

Membrane: Thin-Film Membrane (TFM®)

Typical Operating Pressure: 120psig (838.08 kPa)

Maximum Pressure: 400psig (2794 kPa)

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

Chlorine Tolerance: 1,000 ppm-hrs, Dechlorination recommended

Typical Operating Flux: 10 - 20 GFD (15-35 L.H⁻¹.M⁻²)

Optimum rejection pH: 7.0 - 7.5

Operating pH range: 4.0 - 11.0

Cleaning pH range: 2.0 - 11.5

Maximum Temperature: 122°F (50°C)

Feed NTU: <1

Feed SDI: <3

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-LE( PA )</td>
<td>40 (1016 )</td>
<td>1.139 (29 )</td>
<td>7.9 (201 )</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.

info@lenntech.com  Tel. +31-152-610-900
www.lenntech.com  Fax. +31-152-616-289