817-NF100
Water Softening Full-Fit™ Membrane Element
Nanofiltration

ELEMENT SPECIFICATIONS

<table>
<thead>
<tr>
<th>Model</th>
<th>GPD</th>
<th>Flow (m³/d)</th>
<th>Active Area (m²)</th>
<th>Rejection Average (%)</th>
<th>Rejection Minimum (%)</th>
<th>Part Number</th>
</tr>
</thead>
<tbody>
<tr>
<td>817-NF100</td>
<td>9,000</td>
<td>34.1</td>
<td>320</td>
<td>97.0%</td>
<td>96.0%</td>
<td>1157656</td>
</tr>
</tbody>
</table>

Specifications are based on a 2000 mg/L Na₂SO₄ solution at 230 psig operating pressure (1553 kPa), 77deg. F (25°C), 10% recovery, pH 6-7. Individual flux may vary +/-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
- 50 psig (345 kPa) per vessel
- Chlorine Tolerance: 1 ppm maximum, continuous 30 ppm for 30 min. during sanitization
- Typical Operating Flux: 10-20 GFD (15-35 L.H⁻¹.M⁻²)
-Operating pH range: 5.0-6.5
-Cleaning pH range: 3.0-8.0
-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-NF100</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.