Parker Racor Village Marine Tec
8” Reverse Osmosis
Membrane Element
Sea Water / Brackish Water

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Racor thin film composite reverse osmosis membranes deliver high salt rejection while maintaining high production rates to obtain the energy efficiency demanded by plant operators.

By selecting the highest grade of materials and thoroughly testing performance, Racor Village Marine Tec. is able to offer the highest quality products.

Racor membranes are designed for use in Parker Village Marine Tec. pressure vessel housings as well as other brand housings.
**8” RO Membrane**

**Operating Information:**

- Keep elements moist at all times
- Permeate obtained from first two hours of operation should be discarded

**Operating Limits:**

- To prevent biological growth during storage, shipping, or system shutdowns it is recommended that elements be immersed in a protective solution. The standard storage solution for long or short term storage should contain 1.0 percent (by weight) sodium metabisulfite (food grade).
- Flow rates for individual elements may vary +/-20%
- Element to fit industry standard 8.0 inch I.D. pressure vessel

<table>
<thead>
<tr>
<th>P/N</th>
<th>Product Water Flow Rate GPD (M3/D)</th>
<th>Minimum Salt Rejection (%)</th>
<th>Typical Salt Rejection (%)</th>
<th>Maximum Recovery (%)</th>
<th>Dimensions inches (cm)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Seawater 33-0840</td>
<td>6000 (22.7)</td>
<td>99.6</td>
<td>99.75</td>
<td>15</td>
<td>40.0, 8.0, 1.125</td>
</tr>
<tr>
<td>Brackish 33-0850</td>
<td>10500 (39.7)</td>
<td>99.4</td>
<td>99.7</td>
<td>15</td>
<td>(101.6), (20.3), (2.86)</td>
</tr>
</tbody>
</table>

**Membrane Type:** Thin-film composite

**Maximum Operating Pressure:** 1200 PSI (Seawater), 600 PSI (Brackish Water)

**Maximum Operating Temperature:** 113°F (45°C), 113°F (45°C)

**Maximum Feed Turbidity:** 1 NTU, 1 NTU

**Free Chlorine Tolerance:** <0.1 PPM, <0.1 PPM

**pH Range**

- Continuous Operation: 2-11
- Short-term (30 min.), Cleaning: 1-13

**Maximum Feed Flow:** 75 GPM, 75 GPM

**Maximum Feed Silt Density Index:** SDI 5, SDI 5

**Membrane Outer Wrap:** Fiberglass, Fiberglass

**Maximum Pressure Drop Per Element:** 15 PSI, 15 PSI

**Element Test Conditions:**

- Seawater: ~32,000 PPM NaCl, 800 PSI, 77°F (25°C)
- Brackish Water: ~2,000 PPM NaCl, 225 PSI, 77°F (25°C)

To maintain peak performance always use genuine Parker-Racor/Village Marine Tec. replacement parts.

We reserve the right to change our specifications or standards without notice.

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