AG Series
Standard Brackish Water RO Elements

The A-Series, family of proprietary thin-film reverse osmosis membrane elements are characterized by high flux and high sodium chloride rejection. AG Standard Brackish Water Elements are selected when high rejection and operating pressures as low as 200 psi (1,379 kPa) are desired. These elements allow moderate energy savings, and are considered a standard in the industry.

Table 1: Element Specification

<table>
<thead>
<tr>
<th>Membrane</th>
<th>A-Series, Thin-Film Membrane (TFM*)</th>
</tr>
</thead>
</table>

<table>
<thead>
<tr>
<th>Model</th>
<th>Membrane area ft² (m²)</th>
<th>Outer wrap</th>
<th>Part Number</th>
</tr>
</thead>
<tbody>
<tr>
<td>AG2540TM</td>
<td>27 (2.5)</td>
<td>Tape</td>
<td>1206729</td>
</tr>
<tr>
<td>AG4025T</td>
<td>60 (5.6)</td>
<td>Tape</td>
<td>1206754</td>
</tr>
<tr>
<td>AG4026F</td>
<td>60 (5.6)</td>
<td>Fiberglass</td>
<td>1206756</td>
</tr>
<tr>
<td>AG4040C</td>
<td>90 (8.4)</td>
<td>Cage</td>
<td>1206757</td>
</tr>
<tr>
<td>AG4040FM</td>
<td>85 (7.9)</td>
<td>Fiberglass</td>
<td>3032513</td>
</tr>
<tr>
<td>AG4040TM</td>
<td>85 (7.9)</td>
<td>Tape</td>
<td>3032514</td>
</tr>
<tr>
<td>AG8040C</td>
<td>380 (35.3)</td>
<td>Cage</td>
<td>1222546</td>
</tr>
<tr>
<td>AG8040F</td>
<td>365 (33.9)</td>
<td>Fiberglass</td>
<td>3032515</td>
</tr>
<tr>
<td>AG8040FM</td>
<td>400 (37.2)</td>
<td>Fiberglass</td>
<td>3032518</td>
</tr>
<tr>
<td>AG8040N</td>
<td>365 (33.9)</td>
<td>Net</td>
<td>1231784</td>
</tr>
<tr>
<td>AG8040N 400</td>
<td>400 (37.2)</td>
<td>Net</td>
<td>1231786</td>
</tr>
<tr>
<td>AG8340F 400</td>
<td>400 (37.2)</td>
<td>Fiberglass</td>
<td>3048370</td>
</tr>
</tbody>
</table>

1 Average salt rejection after 24 hours operation. Individual flow rate may vary +/-20%.
2 Testing conditions: 2,000 ppm NaCl solution at 225 psi (1,551 kPa) operating pressure, 77°F (25°C), pH 7.5 and 15% recovery.

Figure 1: Element Dimensions Diagram – Female

Figure 2: Element Dimensions Diagram – Male

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### Table 2: Dimensions and Weight

<table>
<thead>
<tr>
<th>Model</th>
<th>Type</th>
<th>Dimensions, inches (cm)</th>
<th>Boxed Weight lbs (kg)</th>
</tr>
</thead>
<tbody>
<tr>
<td>AG2540TM</td>
<td>Male</td>
<td>40.0 (101.6)</td>
<td>2.4 (6.1)</td>
</tr>
<tr>
<td></td>
<td></td>
<td>0.75 (1.90)</td>
<td></td>
</tr>
<tr>
<td>AG4025T</td>
<td>Female</td>
<td>25.0 (63.5)</td>
<td>3.9 (9.9)</td>
</tr>
<tr>
<td></td>
<td></td>
<td>0.625 (1.59)</td>
<td></td>
</tr>
<tr>
<td>AG4026F</td>
<td>Female</td>
<td>26.0 (66.7)</td>
<td>3.9 (9.9)</td>
</tr>
<tr>
<td></td>
<td></td>
<td>0.625 (1.59)</td>
<td></td>
</tr>
<tr>
<td>AG4040C</td>
<td>Female</td>
<td>40.0 (101.6)</td>
<td>3.9 (9.9)</td>
</tr>
<tr>
<td></td>
<td></td>
<td>0.625 (1.59)</td>
<td></td>
</tr>
<tr>
<td>AG4040FM</td>
<td>Male</td>
<td>40.0 (101.6)</td>
<td>3.9 (9.9)</td>
</tr>
<tr>
<td></td>
<td></td>
<td>0.75 (1.90)</td>
<td></td>
</tr>
<tr>
<td>AG4040TM</td>
<td>Male</td>
<td>40.0 (101.6)</td>
<td>3.9 (9.9)</td>
</tr>
<tr>
<td></td>
<td></td>
<td>0.75 (1.90)</td>
<td></td>
</tr>
<tr>
<td>AG8040C</td>
<td>Female</td>
<td>40.0 (101.6)</td>
<td>7.9 (20.1)</td>
</tr>
<tr>
<td></td>
<td></td>
<td>1.125 (2.86)</td>
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</tr>
<tr>
<td>AG8040F</td>
<td>Female</td>
<td>40.0 (101.6)</td>
<td>7.9 (20.1)</td>
</tr>
<tr>
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<td></td>
<td>1.125 (2.86)</td>
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</tr>
<tr>
<td>AG8040F 400</td>
<td>Female</td>
<td>40.0 (101.6)</td>
<td>7.9 (20.1)</td>
</tr>
<tr>
<td></td>
<td></td>
<td>1.125 (2.86)</td>
<td></td>
</tr>
<tr>
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<td>Female</td>
<td>40.0 (101.6)</td>
<td>7.9 (20.1)</td>
</tr>
<tr>
<td></td>
<td></td>
<td>1.125 (2.86)</td>
<td></td>
</tr>
<tr>
<td>AG8040N 400</td>
<td>Female</td>
<td>40.0 (101.6)</td>
<td>7.9 (20.1)</td>
</tr>
<tr>
<td></td>
<td></td>
<td>1.125 (2.86)</td>
<td></td>
</tr>
<tr>
<td>AG8340F 400</td>
<td>Female</td>
<td>40.0 (101.6)</td>
<td>8.3 (21.1)</td>
</tr>
<tr>
<td></td>
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<td>1.125 (2.86)</td>
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</table>

### Table 3: Operating and CIP parameters

<table>
<thead>
<tr>
<th>Parameter</th>
<th>Specification</th>
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<tbody>
<tr>
<td>Typical Operating Pressure</td>
<td>200 psi (1,379 kPa)</td>
</tr>
<tr>
<td>Typical Operating Flux</td>
<td>10-20GFD (15-35LMH)</td>
</tr>
<tr>
<td>Maximum Operating Pressure Tape</td>
<td>650 psi (3,103 kPa)</td>
</tr>
<tr>
<td>Other outerwrap</td>
<td>600 psi (4,137 kPa)</td>
</tr>
<tr>
<td>Maximum Operating Pressure Clean-In-Place (CIP)</td>
<td>122°F (50°C)</td>
</tr>
<tr>
<td>pH Range</td>
<td>7.0-7.5, Continuous operation: 4.0-11.0, Clean-In-Place (CIP): 1.0-13.0²</td>
</tr>
<tr>
<td>Maximum Temperature</td>
<td>Continuous operation: 122°F (50°C)</td>
</tr>
<tr>
<td>Clean-In-Place (CIP)</td>
<td>122°F (50°C)</td>
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<tr>
<td>pH Range</td>
<td>1.0-13.0²</td>
</tr>
<tr>
<td>Maximum Pressure Drop</td>
<td>Over an element: 12 psi (83 kPa) Per housing: 50 psi (345 kPa)</td>
</tr>
<tr>
<td>Chlorine Tolerance</td>
<td>1,000+ ppm-hours, Dechlorination recommended</td>
</tr>
<tr>
<td>Feedwater²</td>
<td>NTU &lt; 1 SDI &lt; 5</td>
</tr>
</tbody>
</table>

¹ Please refer to Cleaning Guidelines Technical Bulletin TB1194
² SDI is measured on a non-linear scale using a 0.45 micron filter paper. Additionally, finer colloids, particulates and microorganisms that pass through the filter paper and not measured in the SDI test, will potentially foul the RO element. For performance consistency and project warranty, please use Winflows projection software and consult your GE representative.

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