The A-Series family of proprietary thin-film reverse osmosis membrane is characterized by high flux and relatively high sodium chloride rejection. AP brackish water elements are selected when extreme high flow and ultra-low operating pressures are desired.

The AP membrane element is designed specifically to operate at low energy high flow applications for beverage, light commercial, residential and general industrial applications.

Table 1: Element Specification

| Membrane          | Thin-film membrane (TFM*) |

<table>
<thead>
<tr>
<th>Model</th>
<th>Average permeate flow gpd (m³/day)¹,²</th>
<th>Average NaCl rejection¹,²</th>
<th>Minimum NaCl rejection¹,²</th>
</tr>
</thead>
<tbody>
<tr>
<td>AP-90</td>
<td>2400 (10.2)</td>
<td>95%</td>
<td>92%</td>
</tr>
<tr>
<td>AP-365</td>
<td>11,000 (41.6)</td>
<td>95%</td>
<td>92%</td>
</tr>
<tr>
<td>AP-400</td>
<td>12,500 (47.2)</td>
<td>95%</td>
<td>92%</td>
</tr>
</tbody>
</table>

¹ Average salt rejection after 24 hours operation. Individual flow rate may vary +25%/-15%.
² Testing conditions: 500ppm NaCl solution at 75 psi (520kPa) operating pressure, 77°F (25°C), pH7 and 15% recovery.

Table 2: Dimensions and Weights

<table>
<thead>
<tr>
<th>Model</th>
<th>Dimensions, inches (cm)</th>
<th>Boxed Weight lbs (kg)</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>A</td>
<td>B¹</td>
</tr>
<tr>
<td>AP-90</td>
<td>Male</td>
<td>40.0 (101.6)</td>
</tr>
<tr>
<td>AP-365</td>
<td>Female</td>
<td>40.0 (101.6)</td>
</tr>
<tr>
<td>AP-400</td>
<td>Female</td>
<td>40.0 (101.6)</td>
</tr>
</tbody>
</table>

¹ Internal diameter unless specified OD (outside diameter).

Table 3: Operating and CIP parameters

<table>
<thead>
<tr>
<th>Typical Operating Pressure</th>
<th>70 psi (483 kPa gage)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Typical Operating Flux</td>
<td>10-20GFD (17-34LMH)</td>
</tr>
<tr>
<td>Maximum Operating Pressure</td>
<td>200 psi (1380 kPa gage)</td>
</tr>
<tr>
<td>Maximum Temperature</td>
<td>Continuous operation: 122°F (50°C) Clean-In-Place (CIP): 122°F (50°C)</td>
</tr>
<tr>
<td>pH range</td>
<td>Optimum rejection: 7.0-7.5, Continuous operation 4.0-11.0, Clean-In-Place (CIP): 2.0-11.5</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>Feedwater³</td>
<td>NTU &lt;1 SDI &lt; 5</td>
</tr>
</tbody>
</table>

³ 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 Filters with Membranes representative.

Additional notes:

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