AXEON HE - Series Membrane Elements are manufactured using the industry’s leading membrane film technology. These membranes offer reliability, high performance and deliver consistent results. They provide increased production, rejection rates and low energy consumption by operating at low applied pressures.

Benefits
- Low Energy with High Rejection Rates
- Improved RO System Performance
- Superior Quality and Cost Savings
- Standard Size and Configuration

Operating Limits
- Membrane Type: Polyamide Thin – Film Composite
- Maximum Operating Temperature (°F / °C): 113 / 45
- Maximum Operating Pressure (psi / bar): 600 / 41
- pH Range, Continuous Operation*: 3 – 10
- pH Range, Short Term Cleaning (30 Min.): 2 – 12
- Maximum Feed Silt Density Index (SDI): 5 Chlorine / Chloramine Tolerance (ppm): 0
- Maximum Feed Flow Rate (gpm): 4.0” = 1.4

* Maximum temperature for continuous operations above pH10 is 95°F / 35°C.

<table>
<thead>
<tr>
<th>Part Number</th>
<th>HE - Series Product Specifications</th>
<th>Dimensions inch / mm</th>
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</thead>
<tbody>
<tr>
<td></td>
<td>Applied Pressure (psi / bar)</td>
<td>100 / 6.9</td>
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<tr>
<td></td>
<td>Permeate Flow Rate (gpd / m³/day)</td>
<td>2400 / 9.1</td>
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<tr>
<td></td>
<td>Nominal Salt Rejection (%)</td>
<td>99.2</td>
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<tr>
<td></td>
<td>A</td>
<td>40 / 1016.00</td>
</tr>
<tr>
<td></td>
<td>B</td>
<td>1.04 / 26.50</td>
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<tr>
<td></td>
<td>C</td>
<td>0.75 / 19.05</td>
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<tr>
<td></td>
<td>D</td>
<td>3.90 / 99.20</td>
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<tr>
<td>211064</td>
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</tbody>
</table>

All 4040 elements fit nominal 4.00” I.D. membrane housings.

Proper start – up of reverse osmosis water treatment systems is essential to prepare the membranes for operating service and to prevent membrane damage due to overfeeding or hydraulic shock. Before initiating system start – up procedures, membrane pretreatment, loading of the membrane elements, instrument calibration and other system checks should be completed.

Avoid any abrupt pressure or cross – flow variations on the spiral elements during start – up, shutdown, cleaning or other sequences to prevent possible membrane damage. During start – up, a gradual change from a standstill to operating state is recommended as follows:
- Feed pressure should be increased gradually over a 30 – 60 second time frame.
- Permeate obtained from first hour of operation should be discarded.
- Avoid static permeate – side backpressure at all times.

Under certain conditions, the presence of free chlorine, chloramines and other oxidizing agents will cause premature membrane failure. Since oxidation damage is not covered under warranty, the manufacturer recommends removing all oxidizing agents by pretreatment prior to membrane exposure. Please contact the manufacturer or your supplier for more information.

Do not use this initial permeate for drinking water or food preparation. Keep elements moist at all times after initial wetting. To prevent biological growth during prolonged system shutdowns, it is recommended that membrane elements be immersed in a preservative solution. Rinse out the preservative before use. For membrane warranty details, please contact the manufacturer or your supplier for more information.

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