# **RE8040** - **BE**

High productivity RO element

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for brackish water

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### SPECIFICATIONS



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### APPLICATION DATA

Operating Limits		
	• Max. Pressure Drop/ Element	15 psi (0.1 MPa)
	• Max. Pressure Drop / 240" Vessel	60 psi (0.41 Mpa)
	Max. O peratingPressure	600 psi (4.14 MPa)
	<ul> <li>Max. Feed Flow Rate</li> </ul>	75 gpm (17.0 m <sup>3</sup> /hr)
	<ul> <li>Min. Concentrate Flow Rate</li> </ul>	16 gpm (3.6 m <sup>3</sup> /hr)
	<ul> <li>Max. O peratingTemperature</li> </ul>	113 °F (45 °C)
	<ul> <li>Operating pH Range</li> </ul>	2.0–11.0
	· CIP pH Range	1.0–13.0
	<ul> <li>Max.Turbidity</li> </ul>	1.0 NTU
	· Max. SDI (15 min)	5.0
	• Max. Chlorine Concentration	< 0.1 mg/L
Design Guidelines for Various Water Sources	• Wastewater Conventional (SDI < 5)	8–12 gfd
	<ul> <li>Wastewater Pretreated by UF/MF (SDI &lt; 3)</li> </ul>	10–14 gfd
	<ul> <li>Seawater, Open Intake (SDI &lt; 5)</li> </ul>	7–10 gfd
	<ul> <li>Seawater, Beach Well (SDI &lt; 3)</li> </ul>	8–12 gfd
	<ul> <li>SurfaceWater (SDI &lt; 5)</li> </ul>	12–16 gfd
	<ul> <li>SurfaceWater (SDI &lt; 3)</li> </ul>	13–17 gfd
	· Well water (SDI < 3)	13–17 gfd
	· RO permeate (SDI < 1)	21–30 gfd
Saturation Limits ( Using Antiscalants) <sup>+ †</sup>	· Langlier Saturation Index(LSI)	<+1.5
	<ul> <li>Stiu and Davis Saturation Index(SDSI)</li> </ul>	<+0.5
	· CaSO 4	230% saturation
	· SrSO 4	800% saturation
	BaSO₄	6,000% saturation
	· SiO <sub>2</sub>	100% saturation
	<sup>†</sup> The above saturation limits are typically accepted by proprietary antiscalant manufacturers. It is the user's responsibility to ensure proper chemical(s) and concentrationare dosed ahead of the membrane system to prevent scale formation anywhere within the membrane system. Membrane elemnetsfouled or damaged due to scale formation are not covered by the limited warranty.	

### **GENERAL HANDLING PROCEDURES**

- Elements contained in the boxes must be kept dry at room temperature (7–32°C; 40–95°F) and should not be stored in direct sunlight. If the polyethylene bag is damaged a new preservative solution (sodium bisulfite) must be added and ai-rtight sealed to prevent drying and biological growth.
- Permeate from the first hour of operation should be discarded to flush out the preservative solution.
- Elements should be immersed in a preservative solution during storage, shipping and system shutdowns to prevent biological growth and freezing. The standard storage solution contains 1% by weight sodium bisulfite or sodium metabisulfite (food grade). For short term storage (i.e. one week or less) 1% by weight sodium metabisulfite solution is adequate for preventing biological growth.
- Keep elements moist at all times after initial wetting.
- Avoid excessive pressure and flow spikes.
- Only use chemicals compatible with the membrane elements and components. Use of such chemicals may void the element limited warranty.
- Permeate pressure must always be equal or less than the feed/concentrate pressure. Damage caused by permeate back pressure voids the element limited warranty.



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