RE8040-SHA400



High productivity RO element with extended area for seawater and high salinity well water

SPECIFICATIONS:

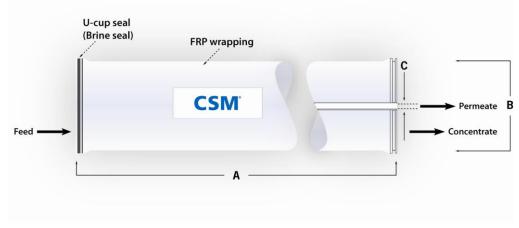
General Features	Permeate flow rate:	7,500 GPD (28.4 m³/day)
	Nominal salt rejection:	99.75%
	Effective membrane area:	400 ft ² (37.2 m ²)

- 1. The stated product performance is based on data taken after 30 minutes of operation at the following test conditions:
 - 32,000 mg/L NaCl solution at 800 psig (5.5 MPa) applied pressure
 - 8% recovery
 - 77 °F (25 °Č)
 - pH 6.5–7.0
- 2. Boron rejection is 92.0% at pH 8.0 and 5 mg/L boron feed with the same test conditions as above.
- 3. Minimum salt rejection is 99.6%.
- 4. Permeate flow rate for each element may vary but will be no more than 15%.
- 5. All elements are vacuum sealed in a polyethylene bag containing 1.0% SBS (sodium bisulfite) solution and individually packaged in a cardboard box.

Membrane type: Membrane material: Element configuration:

Thin-Film Composite Polyamide (PA) Spiral-Wound, FRP Wrapping

Dimensions and Weight	Model Name	A	В	с	Weight	Part Number	
						Inter- connector	Brine Seal
	RE8040-SHA400	40.0 inch (1,016 mm)	8.0 inch (201 mm)	1.12 inch (28 mm)	15 kg	40000308	40000309



Each membrane element supplied with one brine seal, one interconnector (coupler) and four o-rings.
 All RE8040 elements fit nominal 8.0 inch (201 mm) I.D. pressure vessels.

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APPLICATION DATA:

Operating Limits	 Max. Pressure Drop / Element 	15 psi (0.1 MPa) 60 psi (0.41 Mpa) 1,200 psi (8.27 MPa)		
	 Max. Pressure Drop / 240" Vessel 			
	 Max. Operating Pressure 			
	 Max. Feed Flow Rate 	75 gpm (17.0 m³/hr)		
	 Min. Concentrate Flow Rate 	16 gpm (3.6 m³/hr)		
	 Max. Operating Temperature 	I I 3 ∘F (45 ∘C)		
	 Operating pH Range 	2.0-11.0		
	· CIP pH Range	1.0-13.0		
	· Max.Turbidity	I.0 NTU		
	 Max. SDI (15 min) 	5.0		
	• Max. Chlorine Concentration	< 0.1 mg/L		
Design Guidelines for Various	• Wastewater Conventional (SDI < 5)	8–12 gfd		
Water Sources	• Wastewater Pretreated by UF/MF (SDI < 3)	10–14 gfd		
	· Seawater, Open Intake (SDI < 5)	7–10 gfd		
	Seawater, Beach Well (SDI < 3)	8–12 gfd		
	• Surface Water (SDI < 5)	12–16 gfd		
	· Surface Water (SDI < 3)	13–17 gfd		
	• Well water (SDI < 3)	13–17 gfd		
	· RO permeate (SDI < I)	21–30 gfd		
Saturation Limits	· Langlier Saturation Index (LSI)	<+1.5		
(Using Antiscalants) ^T	• Stiff and Davis Saturation Index (SDSI)	<+0.5		
	· CaSO4	230% saturation		
	· SrSO4	800% saturation		
	· BaSO4	6,000% saturation		
	· SiO ₂	100% saturation		
	[†] The above saturation limits are typically accepted by proprietary antiscalant manufacturers. It is the user's responsibility to ensure proper chemical(s) and concentration are dosed ahead of the membrane system to prevent scale formation anywhere within the membrane system. Membrane elements fouled 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 air-tight 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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