RE8040-FLR



Fouling resistant RO element with low pressure for brackish water and wastewater reuse

SPECIFICATIONS:

General Features

Permeate flow rate: 9,000 GPD (34.0 m³/day)

Nominal salt rejection: 99.6%

Effective membrane area: 400 ft² (37.2 m²)

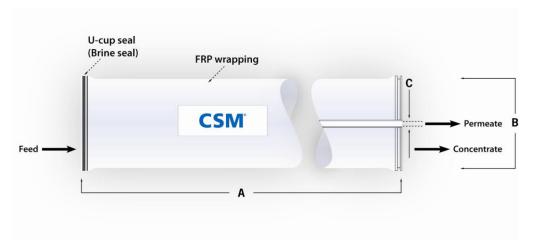
- 1. The stated product performance is based on data taken after 30 minutes of operation at the following test conditions:
 - 1,500 mg/L NaCl solution at 150 psig (1.0 MPa) applied pressure
 - 15% recovery
 - 77 °F (25 °C)
 - pH 6.5-7.0
- 2. Minimum salt rejection is 99.5%.
- 3. Permeate flow rate for each element may vary but will be no more than 15%.
- 4. 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:Thin-Film CompositeMembrane material:Polyamide (PA)

Element configuration: Spiral-Wound, FRP Wrapping

Dimensions and Weight

					Part N	Part Number	
Model Name	Α	В	С	Weight	Inter- connector	Brine Seal	
RE8040-FLR	40.0 inch (1,016 mm)	8.0 inch (201 mm)	1.12 inch (28 mm)	15 kg	40000308	40000309	



- 1. Each membrane element supplied with one brine seal, one interconnector (coupler) and four o-rings.
- 2. 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)	
	Max. Pressure Drop / 240" Vessel	60 psi (0.41 Mpa)	
	· Max. Operating Pressure	600 psi (4.14 MPa)	
	· Max. Feed Flow Rate	75 gpm (17.0 m ³ /hr)	
	· Min. Concentrate Flow Rate	16 gpm (3.6 m ³ /hr)	
	· Max. Operating Temperature	113 ∘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	
	· CaSO ₄	230% saturation	
	· SrSO ₄	800% saturation	
	· BaSO ₄	6,000% saturation	
	· SiO ₂	100% saturation	
	[†] The above saturation limits are typically accepted by manufacturers. It is the user's responsibility to ensur- concentration are dosed ahead of the membrane sys formation anywhere within the membrane system. M	e proper chemical(s) and stem to prevent scale	

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.

or damaged due to scale formation are not covered by the limited warranty.

- 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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