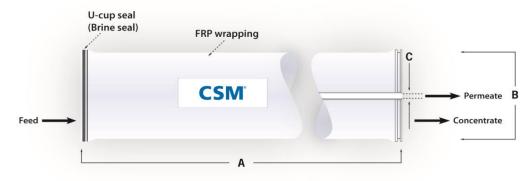
RE8040-FLR34



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

SPECIFICATIONS:

General Features	Effective membra	neate flow rate:10,000 GPD (37.9 m³/day)ninal salt rejection:99.6%stive membrane area:400 ft² (37.2 m²)I spacer thickness:34mil						
	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 (1.03 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 -5%.							
	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 Composite							
	Membrane material:Polyamide (PA)Element configuration:Spiral-Wound, FRP Wrapping							
					5			
Dimensions and						Part Number		
Weight	Model Name	A	В	С	Weight	Inter- connector	Brine Seal	
	RE8040-FLR34	40.0 inch (1,016 mm)	7.9 inch (200 mm)	1.12 inch (28.5 mm)	15 kg	SWA01049	SWA01043	



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 (203.2 mm) I.D. pressure vessels.

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RE8040-FLR34



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

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 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 1.0–13.0 1.0 NTU			
	· CIP pH Range				
	· Max.Turbidity				
	• Max. SDI (15 min)	5.0			
	Max. Chlorine Concentration	< 0.05 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) [†]	• 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 $(7-32^{\circ}C; 40-95^{\circ}F)$ 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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