RE8040 -F Dⁿ

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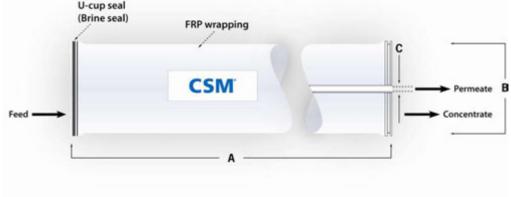
Enhanced fouling resistant RO element with thick feed spacer for wastewater reuse

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SPECIFICATIONS

General	Permeate flow rate:	10	,000 GPD (39	.7 m ³ /day)					
Features	Nominal salt reject		.7%						
	Effective membrane	e area: 38	0 ft² (35.3 m²)						
	Feed spacer thickness : 34 mil								
	1. The stated product performance is based on data taken after 30 minutes of operationat the following test conditions:								
	• 2,000 mg/L NaCl • 15% recovery • 77 ∘F (25 ∘C) • pH 6.5 –7.0	solution at	225 psig (1	.5 MPa) app	lied pressur	re			
		2. Minimum salt rejection is 994%.							
	2. Minimum salt rejec	ction is 994%.							
	3. Permeate flow rate	for each elem							
		e for each elem Icuum sealed i	in a polyethyle				bisulfite) solutic		
	 Permeate flow rate All elements are va and individuallypad Membrane type: 	e for each elem icuum sealed i kaged in a car Th	in a polyethyle rd b ard box. in-Film Comp	ene bag con			bisulfite) solutic		
	 Permeate flow rate All elements are va and individuallypad 	e for each elem icuum sealed i ckaged in a car Th I: Po	n a polyethyle rd b ard box.	ene bag con osite	taining 1.09		bisulfite) solutic		
Dimensions	 Permeate flow rate All elements are va and individuallypad Membrane type: Membrane materia 	e for each elem icuum sealed i ckaged in a car Th I: Po	in a polyethyle rd b ard box. in-Film Comp lyamide(PA)	ene bag con osite	taining 1.09				
Dimensions and Weight	 Permeate flow rate All elements are va and individuallypad Membrane type: Membrane materia 	e for each elem icuum sealed i ckaged in a car Th I: Po	in a polyethyle rd b ard box. in-Film Comp lyamide(PA)	ene bag con osite	taining 1.09	% SBS (sodium l			

CSM



Each membrane elementsupplied 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.

The information provided in this document is solely for informative purposes is the user's responsibility to ensure the appropriate usage of this productWoongjin Chemical assumes no obligation, liability or damages incurred for the misuse of the product or for the information provided in this documentThis document does not express or implies any warranty as to the merchantability or fitness of the product.

RE8040 - **F D**ⁿ

Enhanced f ouling resistant RO element

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with thick feed spacer for wastewater reuse

CSM

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)				
	 Max. Feed Flow Rate 	75 gpm (17.0 m³/hr)				
	 Min.Concentrate Flow Rate 	16 gpm (3.6 m³/hr)				
	 Max. O peratingTemperature 	113 °F (45 °C)				
	 Operating pH Range 	2.0–11.0				
	· CIP pH Range	1.0–13.0				
	Max.Turbidity	1.0 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	• Waste water 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				
	· SurfaceW ater (SDI < 5)	12–16 gfd				
	· SurfaceW ater (SDI < 3)	13–17 gfd				
	· Well water (SDI < 3)	13–17 gfd				
	• RO permeate (SDI < 1)	21–30 gfd				
Saturation Limits	· Langlier Saturation Index(LSI)	<+1.5				
(Using Antiscalants) ⁺	Stiff and Davis Saturation Index(SDSI)	<+0.5				
	· CaSO 4	230% saturation				
	· SrSO ₄	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 concentrationare dosed ahead of themembrane system to prevent scale formation anywhere within the membrane system. Membrane elements foul 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 airtight 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 storge 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 thanthe feed/concentrate pressure. Damage caused by permeate back pressure voids the element limited warranty.

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