RE8040 -BE 440

High productivity RO element with extended area for brackish water

SPECIFICATIONS

General Features	Permeate flow rate: Nominal salt reject Effective membrane	ion: 9	1,500 GPD (43 9.7% 40 ft² (40.9 m²)	,			
	1. The stated product performance is based on data taken after 30 minutes of operationat the following test conditions:						
	 2,000 mg/L NaCl solution at 225 psig (1.5 MPa) applied pressure 15% recovery 77 °F (25 °C) pH 6.5 -7.0 						
	 Minimum salt rejection is 99.4%. Permeate flow rate for each element may vary but will be no more than 5%. All elements are vacuum sealed in a polyethylene bag containing 1.0% SBS (sodium bisulfite) solution and individuallypackaged in a cardboard box. CSM BE440 elements are made equivalent to BN and BE elements but produces more permeate flow due to its extended membrane area. 						
	Membrane type: Membrane materia Element configurati	l: P	hin-Film Comp olyamide(PA) piral-Wound, FF)		
Dimensions and Weight	MadalNama					Part Number	
	Model Name	A	В	С	Wei ght	Inter - connector	Brine Seal
		40.0 inch	8.0 inch	1.12 inch	15 kg	40000308	40000309
	RE 8040-BE 440	(1,016 mm)	(201 mm)	(28 mm)	13 Kg	40000508	40000309

CSM[°]

1. Each membrane elementsupplied 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.

3. RE8040-BE440 element can be also made with a 1.5 inch (38mm) diametercentral pipe

The information provided in this document is solely for informative purposed 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.

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APPLICATION DATA

CSM

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N 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	 Waste water 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			
	• SurfaceWater (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			
(U sing Antiscalants) ⁺	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 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 elem es 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 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 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 compatble 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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