RE8040 -FE n440

CSM°



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Enhanced fouling resistant RO element for brackish water and wastewater reuse

SPECIFICATIONS

General Features

Permeate flow rate: 11,500 GPD (43.5 m³/day)

Nominal salt rejection: 99.7%

Effective membrane area: 440 ft2 (40.9 m2)

 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

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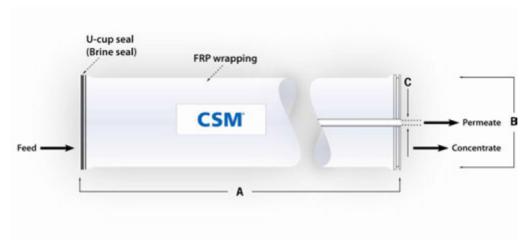
- 77 °F (25 °C)
- pH 6.5 -7.0
- 2. Minimum salt rejection is 99.4%.
- 3. Permeate flow rate for each element mayvary but will be no more than 15%
- 4. All elements are vacuum sealed in a polyethylene bag containing 1.0% SBS (sodium bisulfite) solution and individually packaged in a cardboard box.

Membrane type: Thin-Film Composite
Membrane material: Polyamide(PA)

Element configuration: Spiral-Wound, FRP W rapping

Dimensions and Weight

				Weight	Part Number	
Model Name	A	В	С		Inter - connector	Brine Seal
RE 8040 -F E 1440	40.0 inch (1,016 mm)	8.0 inch (201 mm)	1.12 inch (28 mm)	15 kg	40000308	40000309



- 1. Each membrane element upplied 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-FEn440 element can be also made with a1.5 inch (38mm) diameter central pipe

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

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APPLICATION DATA

Operating Limits	M D D / Fl	15 (O 1 MD-)		
Operating Limits	Max. Pressure Drop / Element	15 psi (0.1 MPa)		
	· Max. Pressure Drop / 240" Vessel	60 psi (0.41 Mpa)		
	Max. O perating Pressure	600 psi (4.14 MPa)		
	· Max. Feed Flow Rate	75 gpm (17.0 m³/hr)		
	 Min.C oncentrate Flow Rate 	16 gpm (3.6 m ² /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		
	· Surface Water (SDI < 5)	12–16 gfd		
	· SurfaceWater (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		
	· 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 elements fouled or damaged due to scale formation are not covered by the limited warranty.			

GENERA L 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 andair-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 shutowns 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 limted 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.

