RE8040 -FE n

CSM



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Enhanced f ouling resistant RO element for brackish water and wastewater reuse

SPECIFICATIONS

General Features Permeate flow rate:

10,500 GPD (39.7 m³/day)

Nominal salt rejection: 99.7%

Effective membrane area: 400 ft² (37.2 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

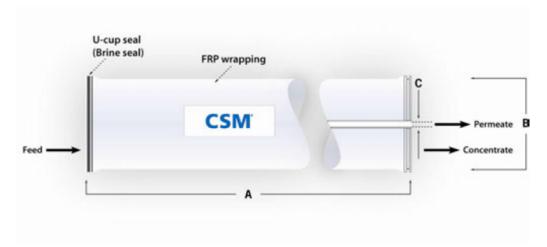
- 77 °F (25 °C)
- pH 6.5 -7.0
- 2. Minimum salt rejectionis 99.4%.
- 3. Permeate flow rate for each element may vary but will be no more than 15%
- 4. All elements are vacuum sealed in a polyethylene bag containing 1.0% SBS (sodium bisulfite) solution and individually packaged in a cardboard box.

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

Element configuration: Spiral-Wound, FRP W rapping

Dimensions and Weight

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



- 1. Each membrane elemen supplied with one brine seal, one interconnector (coupler) and four o-rings.
- 2. All RE8040 elementsfit nominal 8.0 inch (201 mm) I.D. pressure vessels.

The information provided in this document is solely for informative purposes It 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 document. This document does not express or implies any warranty as to the merchantability or fitness of the product.

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Fouling resistant RO element for brackish water and wastewater reuse

APPLICATION DATA :							
Operating Limits	 Max. Pressure Drop / Element Max. Pressure Drop / 240" Vessel Max. O peratingPressure Max. Feed Flow Rate Min. Concentrate Flow Rate Max. O peratingTemperature Operating PH Range CIP pH Range Max. Turbidity Max. SDI (15 min) Max. C hlorine Concentration 	15 psi (0.1 MPa) 60 psi (0.41 Mpa) 600 psi (4.14 MPa) 75 gpm (17.0 m³/hr) 16 gpm (3.6 m²/hr) 113 °F (45 °C) 2.0–11.0 1.0–13.0 1.0 NTU 5.0 < 0.1 mg/L					
Design Guidelines for Various Water Sources	 Waste water Conventional (SDI < 5) Waste water Pretreated by UF/MF (SDI < 3) Seawater, O pen Intake (SDI < 5) Seawater, Beach Well (SDI < 3) SurfaceWater (SDI < 5) SurfaceWater (SDI < 3) Well water (SDI < 3) RO permeate (SDI < 1) 	8–12 gfd 10–14 gfd 7–10 gfd 8–12 gfd 12–16 gfd 13–17 gfd 13–17 gfd 21–30 gfd					
Saturation Limits (Using Antiscalants) †	 Langlier Saturation Index(LSI) Stiff and Davis Saturation Index(SDSI) CaSO 4 SrSO 4 BaSO 4 SiO 2 [†]The above saturation limits are typically accepted by manufacturers. It is the user's responsibility to ensur concentrationare dosed ahead of the membrane system. or damaged due to scale formation are not covered 	e proper chemical(s) and stem to prevent scale Membrane elements fouled					

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 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 weightodium 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.

