RE 2540-BE

CSM

AGUA CONTROL

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High productivity RO element with extended area for brackish water

SPECIFICATIONS

General Features Permeate flow rate: 800 GPD (3.0 m³/day)

Stabilized salt rejection: 99.7% Effective membrane area: 27 ft² (2.5 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

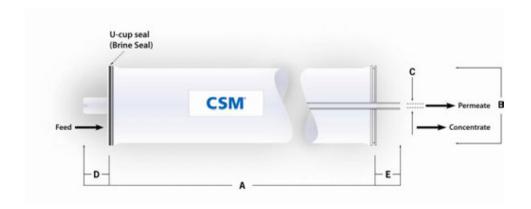
- 15% recovery
- 77 °F (25 °C)
- pH 6.5 -7.0
- 2. Minimum salt rejection is 99.4%.
- 3. Permeate flow rate for each element may vary but will be no more than 15%.
- 4. All elements are vacuum sealed in a polyethylene bag containing 1.0% SBS (sodium bisulfite) solution and individually packaged in a cardboard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

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

Element configuration: Spiral-Wound, FRP W rapping

Dimensions

Model	A	В	С	D	E	Part Number	
Name						Inter - connector	Brine Seal
RE 2540 -BE	40.0 inch (1,016 mm)	2.5 inch (64 mm)	0.75 inch (19.1 mm)	1.1 inch (28 mm)	1.1 inch (28 mm)	40000305	40000223



- 1. Each membrane elemen supplied with one brine seal, one interconnector (coupler) and four o-rings.
- 2. All RE2540 elementsfit nominal 2.5 inch (64 mm) I.D. pressure vessels.

The information provided in this document is solelyfor 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 documentThis 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	· 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	6 gpm (1.36 m ³ /hr)
	· Min.Concentrate Flow Rate	1 gpm (0.23 m ³ /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
Vater 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
	SurfaceWater (SDI < 3)	13-17 gfd
	Well water (SDI < 3)	13-17 gfd
	· RO permeate (SDI < 1)	21–30 gfd
aturation 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 manufacturers. It is the user's responsibility to ensure concentration are dosed ahead of the membrane system. or damaged due to scale formation are not covered.	re proper chemical(s) and ystem to prevent scale Membrane elements foule

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 weight sodium **b**ulfite 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.
- M Keep elements moist at all times after initial wetting.
- $_{\mbox{\tiny B}}$ 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.

