RE 4040-B N

CSM

Normal grade R O element with thick feed spacer for brackish water



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SPECIFICATIONS

General Features Permeate flow rate: 2,000 GPD (7.6 m³/day)

Nominal salt rejection: 99.7%

Effective membrane area: 75 ft² (7.0 m²)

1. The stated product performance is based on data taken after 30 minutes of operationat the followingtest 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 individuallypackaged in a cardboard box.

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

Element configuration: Spiral-Wound, FRP W rapping

Dimensions

						Part Nu	art Number	
Model Name	Α	В	С	D	E	Inter -	Brine Seal	
						connector	Diffie Seal	
RE40 40-BN	40.0 inch (1,016 mm)	4.0 inch (102 mm)	0.75 inch (19.1 mm)	1.05 inch (26.7 mm)	1.05 inch (26.7 mm)	40000305	40000306	



- 1. Each membrane elementupplied with one brine seal, one interconnector (coupler) and four o-rings.
- 2. All RE4040 elements fit nominal 4.0 inch (102 mm) I.D. pressure vessels.

The information provided in this document is soley for informative purposes It is the user's responsibility to ensure the appropriate usage of this product Woongjin 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.

RE 4040-B N



Normal grade RO element with thick feed spacer for brackish water

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	18 gpm (4.09 m³/hr)	
	· Min.Concentrate Flow Rate	4 gpm (0.91 m³/hr)	
	· Max. O perating Temperature	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	
	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	
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 manufacturers. It is the user's responsibility to ensur		

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 seabed 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 soid im 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.

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.

- 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. Damagecaused by permeate back pressure voids the element limited warranty.

