RE 4040-SH A

:

High productivity RO element for seawater and high salinity well water

(1,016 mm)

(102 mm)

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SPECIFICATIONS

General Features	Permeateflow rate:1,400 GPD (5.3 m³/day)Nominalsalt rejection:99.75%Effectivemembranearea:74 ft² (6.9 m²)								
	1. The stated product performance is based on data taken after 30 minutes of operationat the followingtest conditions:								
	 32,000 mg/L NaCl solution at 800 psig (5.5 MPa) applied pressure 8% recovery 77 °F (25 °C) pH 6.5 -7.0 								
	 Boron rejection is 92.0% at pH 8.0 and 5 mg/L boron feed with the same test conditions as above. Minimum salt rejection is 99.6%. Permeate flow rate for each element may vary but will be no more than20%. All elements are vacuum sealed in a polyethylene bag containing 1.0% SBS (sodiubrisulfite) solution and individuallypackaged in a cardboard box. 								
	Dimensions			Part Number					ımber
Model Name		A	В	С	D	E	Inter - connector	Brine Seal	
	RE40 40-SHA	40.0 inch	4.0 inch	0.75 inch	1.05 inch	1.05 inch	40000305	40000306	

CSM



(19.1 mm)

(26.7 mm)

(26.7 mm)

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

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

Operating Limits	 Max. Pressure Drop / Element 	15 psi (0.1 MPa) 60 psi (0.41 Mpa)			
	 Max. Pressure Drop / 240" Vessel 				
	 Max. O peratingPressure 	1,200 psi (8.27 MPa)			
	 Max. Feed Flow Rate 	18 gpm (15.0 ൺ/hr) 4 gpm (3.6 ൺ/hr)			
	 Min.Concentrate Flow Rate 				
	 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			
	• 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 waranty.				

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 ad 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 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.

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