

SPECIFICATIONS

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General Features	Permeateflow rate:600 GPD (2.3 m³/day)Stabilizedsalt rejection:99.7%Effectivemembranearea:24 ft² (2.2 m²)				
	1. The stated product performanceis based on data taken after 30 minutes of operationat the following test conditions:				
	 32,000 mg/L NaCl solution at 800 psig (5.5 MPa) applied pressure 8% recovery 77 ⁰F (25 °C) pH 6.5 -7.0 				
	 2. Minimum salt rejection is 99.6%. 3. Permeate flow rate for each element may vary but will be no more than20%. 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
Membrane material:	Polyamide(PA)
Element configuration:	Spiral-Wound, FRP W rapping

Dimensions

	A	В	С	D	E	Part Number	
Model Name						Inter - connector	Brine Seal
RE 2540-SHF	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 elementsupplied with one brine seal, one interconnector (coupler) and four o-rings. 2. All RE2540 elementsfit nominal2.5 inch (64 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.

RE 2540-SHF



High productivity RO element for seawater and high salinity well water

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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. Pressure Drop / 240 Vesser Max. O peratingPressure	1,200 psi (8.27 MPa)			
	Max. Operating ressure Max. Feed Flow Rate				
	Max. reed flow Rate Min. Concentrate Flow Rate	6 gpm (1.36 m ³ /hr)			
		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. C hlorine C oncentration	< 0.1 mg/L			
Design Guidelines for Various	 Wastewater Conventional (SDI < 5) 	8-12 gfd			
Water Sources	• Wastewater Pretreated by UF/MF (SDI < 3)	10-14 gfd			
	• Seawater, O pen Intake (SDI < 5)	7-10 gfd			
	 Seawater, Beach Well (SDI < 3) 	8-12 gfd			
	• SurfaceW ater (SDI < 5)	12-16 gfd			
	• SurfaceW ater (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			
(UsingAntiscalants) [†]	 Stiff and Davis Saturation Index(SDSI) 	<+0.5			
	• CaSO 4	230% saturation			
	• SrSO 4	800% saturation			
	- BaSO₄	6,000% saturation			
	· SiO2	100% saturation			
	manufacturers. It is the user's responsibility to ensu concentrationare dosed ahead of the membrane sy formation anywhere within the membrane system.	¹ The above saturation limits are typically accepted by proprietary antiscalant manufacturers. It is the user's responsibility to ensure proper chemical(s) and concentrationare dosed ahead of the membrane system to prevent csale formation anywhere within the membrane system. Membrane elements fouled or damaged due to scale formation are not covered by the limited warranty.			

GENERAL HANDLING PROCEDURES

Elements contained in the boxes must be kept dry at room temperature $(7-32\degree C; 40-95\degree F)$ and should not be stored in direct sunlight. If the polyethylene bag is damaged a new preservative solution (sodium bisulfite) must be added and ai-rtight 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 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.