## RE 2521-BE High productivity RO element for brackish water

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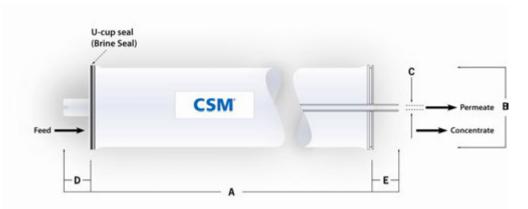
SPECIFICATIONS

General Features	Permeateflow rate:300 GPD ( 1.1 m³/day)Stabilizedsalt rejection:99.7%Effectivemembranearea:12 ft² (1.1 m²)					
	1. The stated product performance is based on data taken after 30 minutes of operationat the following test conditions:					
	<ul> <li>2,000 mg/L NaCl solution at 225 psig (1.5 MPa) applied pressure</li> <li>15% recovery</li> <li>77 ∘F (25 ∘C)</li> <li>pH 6.5 -7.0</li> </ul>					
	<ol> <li>Minimum salt rejection is 99.4%.</li> <li>Permeate flow rate for each element may vary but will be no more than δ%.</li> <li>All elements are vacuum sealed in a polyethylene bag containing 1.0% SBS (sodium bisulfite) solution and individuallypackaged in a cardboard box.</li> </ol>					
	Membrane type: Thin-Film Composite Membrane material: Polyamide(PA) Element configuration: Spiral-Wound, FRP W rapping					

CSM

Dimensions

Model Name	A	В	С	D	E	Part Number	
						Inter - connector	Brine Seal
RE 2521-BE	21.0 inch (534 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 element omes with one brine seal, one interconnector (coupler) and four o-rings. 2. All RE2521 elements fit nominal 2.5 inch (64 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 product Woongjin Chemical assumes no obligation, liability or damages incurred for the misuse of the product or for the information provided in this document libit 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	<ul> <li>Max. Pressure Drop / Element</li> </ul>	15 psi (0.1 MPa)		
	<ul> <li>Max. O peratingPressure</li> </ul>	600 psi (4.14 MPa)		
	<ul> <li>Max. Feed Flow Rate</li> </ul>	6 gpm (1.36 m³/hr)		
	<ul> <li>Min.Concentrate Flow Rate</li> </ul>	1 gpm (0.23 m³/hr)		
	<ul> <li>Max. O peratingTemperature</li> </ul>	113 °F (45 °C)		
	<ul> <li>Operating pH Range</li> </ul>	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	<ul> <li>Waste water Pretreated by UF/MF (SDI &lt; 3)</li> </ul>	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) <sup>†</sup>	<ul> <li>Stiff and Davis Saturation Index(SDSI)</li> </ul>	<+0.5		
	· CaSO <sub>4</sub>	230% saturation		
	· SrSO <sub>4</sub>	800% saturation		
	· BaSO4	6,000% saturation		
	• SiO <sub>2</sub>	100% saturation		
	by proprietary antiscalant re proper chemical(s) and ystem to prevent scale .Membrane elements fouled by the limited warranty.			

## 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 preservativesolution 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 component. 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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