# RE 2521-B N

Normal grade RO element with thick feed spacer for brackish water

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### SPECIFICATIONS

General Features	Permeate flow rate: Stabilized salt rejection: Effective membrane area:	250 GPD ( 1.1 m³/day) 99.7% 10 ft² (0.93 m²)			
	1. The stated product performance is based on data taken after 30 minutes of operationat the followingtest conditions:				
	<ul> <li>2,000 mg/L NaCl solution a</li> <li>8% recovery</li> <li>77 ∘F (25 ∘C)</li> <li>pH 6.5 –7.0</li> </ul>	at 225 psig (1.5 MPa) applied pressure			
	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: Membr ane material:	Thin-Film Composite			
	Element configuration:	Polyamide(PA) Spiral-Wound, FRP W rapping			

**CSM**<sup>°</sup>

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Dimensions

	A	В	С	D	E	Part Number	
Model Name						Inter - connector	Brine Seal
RE 2521-BN	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 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 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	<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	• 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		
	• 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		
(Using An tiscalants) <sup>†</sup>	<ul> <li>Stiff and Davis Saturation Index(SDSI)</li> </ul>	<+0.5		
	· CaSO 4	230% saturation		
	· SrSO <sub>4</sub>	800% saturation		
	· BaSO4	6,000% saturation		
	• SiO <sub>2</sub>	100% saturation		
	<sup>†</sup> The above saturation limits are typicallyaccepted 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 ford 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  $(7-32^{\circ}C; 40-95^{\circ}F)$  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 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 waranty.

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