RE 2521-BLF



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Ultra-low pressure RO element for low TDS water

SPECIFICATIONS

General Features

Permeate flow rate: 350 GPD (1.3 m³/day)

Stabilized salt rejection: 99.2%

Effective membrane area: 12 ft² (1.1 m²)

 The stated product performance is based on data taken after 30 minutes of operationat the following test conditions:

• 500 mg/L NaCl solution at 100 psig (0.7 MPa) applied pressure

• 8% recovery

• 77 °F (25 °C)

• pH 6.5 -7.0

- 2. Minimum salt rejection is 99.0%.
- 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
Membrane material: Polyamide (PA)

Element configuration: Spiral-Wound, FRPWrapping

Dimensions

						Part Number	
Model Name	А	В	С	D	E	Inter -	Brine Seal
						connector	Dille Seal
RE 2521 -B LF	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 elementupplied 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 purpose 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 flis 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	
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· 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 6 gpm (1.36 m³/hr) · Min.Concentrate Flow Rate 1 gpm (0.23 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 < 0.1 mg/L

· Max. Chlorine Concentration

Design Guidelines for Various **Water Sources**

Waste water Conventional (SDI < 5)	8–12 gfd
Wastewater 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

Saturati on Limits (Using Antiscalants)

•	Langlier Saturation Index(LSI)	<+1.5
	Stiff and Davis Saturation Index(SDSI)	<+0.5

· CaSO₄ 230% saturation · SrSO₄ 800% saturation · BaSO₄ 6,000% saturation · SiO₂ 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 warranty.

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 air-tight seadd 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.



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