# RE 2521-BLR

**CSM**°

# LENNTECH

info@lenntech.com Tel. +31-152-610-900 www.lenntech.com Fax. +31-152-616-289

Low pressure grade RO element with high salt rejection for brackish water

#### SPECIFICATIONS

General Features

Permeate flow rate: 300 GPD (1.1 m<sup>3</sup>/day)

Stabilized salt rejection: 99.6%

Effective membrane area: 12 ft<sup>2</sup> (1.1 m<sup>2</sup>)

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

• 1,500 mg/L NaCl solution at 150 psig (1.0 MPa) applied pressure

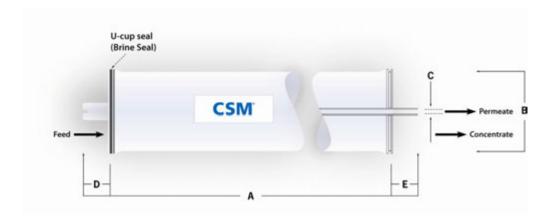
- 15% recovery
- 77 ∘F (25 ∘Ć)
- pH 6.5 -7.0
- 2. Minimum salt rejection is 99.5%.
- 3. Permeate flow rate for each element may vary but will be no more than 20%
- 4. All elements are vacuum sealed in a polyethylene bag containing 1.0% SBS (sodium bisulfite) solution and individuallypackaged in a cardboard box.

Membrane type: Thin-Film Composite
Membrane material: Polyamide(PA)

Element configuration: Spiral-Wound, FRP W rapping

#### Dimensions

Model Name	A	В	С	D	E	Part Number	
						Inter -	Brine Seal
						connector	
RE 2521 -BLR	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 elemen supplied 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 issolely 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 coument. This document does not express or implies any warranty as to the merchantability or fitness of the product.

### RE25 21-BL R



Low pressure grade RO element with high salt rejection for brackish water

#### APPLICATION DATA

**Water Sources** 

(Using Antiscalants)

Operating Limits	<ul> <li>Max. Pressure Drop / Element</li> </ul>	15 psi (0.1 MPa)	
	<ul> <li>Max. Pressure Drop / 240" Vessel</li> </ul>	60 psi (0.41 Mpa)	
	<ul> <li>Max. O peratingPressure</li> </ul>	600 psi (4.14 MPa)	

Max. Feed Flow Rate
 Min. Concentrate Flow Rate
 Max. O perating Temperature
 Operating PH Range
 CIP pH Range
 Max. Turbidity
 Max. O perating Temperature
 113 °F (45 °C)
 2.0-11.0
 1.0-13.0
 Max. Turbidity
 NTU

Max.SDI (15 min)Max.Chlorine Concentration5.00.1 mg/L

Design Guidelines for Various . Waste water Conventional (SDI < 5)

Wastewater Conventional (SDI < 5)</li>
Wastewater Pretreated by UF/MF (SDI < 3)</li>
Seawater, O pen Intake (SDI < 5)</li>
Seawater, Beach Well (SDI < 3)</li>
SurfaceW ater (SDI < 5)</li>
SurfaceW ater (SDI < 3)</li>
Well water (SDI < 3)</li>
RO permeate (SDI < 1)</li>

Saturation Limits . Langlier Saturat

Langlier Saturation Index(LSI)
 Stiff and Davis Saturation Index(SDSI)
 <+0.5</li>

CaSO<sub>4</sub>
 SrSO<sub>4</sub>
 BaSO<sub>4</sub>
 SiO<sub>2</sub>
 230% saturation
 800% saturation
 6,000% saturation
 100% saturation

<sup>†</sup>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 cale 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 seald 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.

LENNTECH

info@lenntech.com Tel. +31-152-610-900 www.lenntech.com Fax. +31-152-616-289