RE 2521-BE





AGUA CONTROL LLC 5609 E ADAMO DRIVE STE.D TAMPA FL, 33619 (813) 621-7774 (813) 621-7776

High productivity RO element for brackish water

SPECIFICATIONS

General Features Permeate flow rate:

300 GPD (1.1 m³/day)

Stabilized salt rejection:

99.7%

Effective membrane area:

12 ft² (1.1 m²)

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

• 2,000 mg/L NaCl solution at 225 psig (1.5 MPa) applied pressure

- 15% recovery
- 77 °F (25 °C)
- pH 6.5 -7.0
- 2. Minimum salt rejection is 99.4%.
- 3. Permeate flow rate for each element may vary but will be no more than 5%.
- 4. All elements are vacuum sealed in a polyethylene bag containing 1.0% SBS (sodium bisulfite) solution and individually packaged in a cardboard box.

Membrane type: Thin-Film Composite

Membrane material: Polyamide(PA)

Element configuration: Spiral-Wound, FRP W rapping

Dimensions

Model	A	В	С	D	E	Part Number	
Name						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 elementcomes with one brine seal, one interconnector (coupler) and four o-rings.
- 2. All RE2521 elementsfit nominal 2.5 inch (64 mm) I.D. pressure vessels.

The information provided in this document is solely for informative purposest 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 does not express or implies any warranty as to the merchantability or fitness of the product.

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APPLICATION DATA

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· Max. Pressure Drop / Element 15 psi (0.1 MPa) · Max. Operating 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. Operating Temperature 113 °F (45 °C) · Operating pH Range 2.0-11.0 CIP pH Range 1.0 - 13.0Max.Turbidity 1.0 NTU Max.SDI (15 min) 5.0 · Max. Chlorine Concentration < 0.1 mg/L

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

Saturation Limits (Using Antiscalants)

- Langlier Saturation Index (LSI)
 Stiff and Davis Saturation Index(SDSI)
 +0.5
- CaSO 4
 SrSO 4
 BaSO 4
 SiO 2
 230% saturation
 800% saturation
 6,000% saturation
 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 formationare 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 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 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.

