



• High Permeate Flow and High Rejection



SPECIFICATIONS General Features

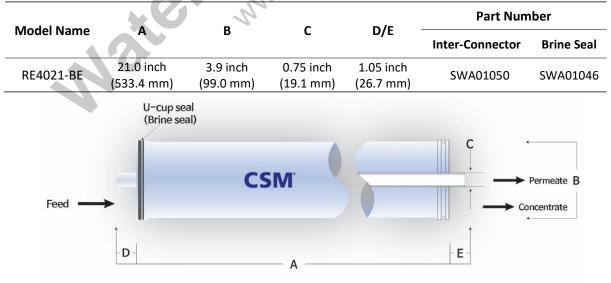
Permeate Flow Rate1,200 GPD (4.5 m³/day)Nominal Salt Rejection99.5% (Minimum 99.%)Effective Membrane Area35 ft² (3.3 m²)Membrane TypeThin-Film CompositeMembrane MaterialPolyamide (PA)

Test Conditions: 2,000 mg/L NaCl solution at 225 psig (1.55 MPa) applied pressure; 8% recovery; 77 $^{\circ}F(25^{\circ}C)$; pH 6.5–7.0; Permeate flow rate for each element may vary +25 / -25%.

Spiral-Wound, FRP Wrapping

Dimensions and Weight

Element Configuration



1. Each membrane element supplied with one interconnector (coupler) and four O-rings. 2. All RE4021 elements fit nominal 4.0 inch (101.6 mm) I.D. pressure vessels.

Toray Advanced Materials Korea Inc.

For more information on our products, company and regional contacts, please visit our website at <u>www.csmfilter.com</u>. Product Specification Sheet / Model RE4021-BE



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RE4021-BE

CSM°

High productivity RO element for brackish water

APPLICATION DATA -

Operating Limits

| Max. Pressure Drop / Element | 15 psi (0.10 MPa) |
|----------------------------------|---------------------|
| Max. Pressure Drop / 240" Vessel | 60 psi (0.41 MPa) |
| Max. Operating Pressure | 600 psi (4.14 MPa) |
| Max. Feed Flow Rate | 18 gpm (4.09 m³/hr) |
| Min. Concentrate Flow Rate | 4 gpm (0.91 m³/hr) |
| Max. Operating 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 |
| Max. Chlorine Concentration | < 0.1 mg/L |
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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.
- For WET-TYPE, the preservative solution (1% sodium metabisulfite solution) is added to prohibit the growth of micro-organisms.
- Permeate from the first hour of operation should be discarded.
- Salt rejection would be stabilized within 48 hours of continuous operation depending on feedwater and operating conditions, but may take over a week for dry elements.

- 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.
- The element shell is FRP(Fiber Reinforced Plastic). Be aware of glass fiber strands and use safety equipment.

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