RE2540-FEn



Enhanced fouling resistant RO element for brackish water and wastewater reuse

- Fouling resistant
- High Permeate Flow and High Rejection
- Robustness and High Durability in a wide pH







SPECIFICATIONS •

General Features

Permeate Flow Rate 1,000 GPD (3.8 m³/day)

Nominal Salt Rejection 99.5% (Minimum 99.0%)

Effective Membrane Area 27ft² (2.5 m²)

Membrane Type Thin-Film Composite

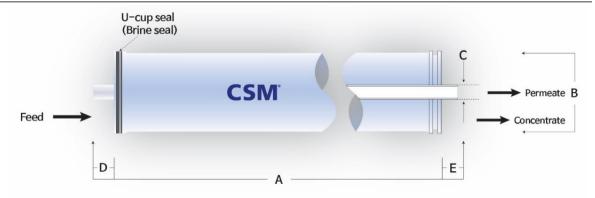
Membrane Material Polyamide (PA)

Element Configuration Spiral-Wound, FRP Wrapping

Test Conditions: 2,000 mg/L NaCl solution at 225 psig (1.55 MPa) applied pressure; 15% recovery; $77^{\circ}F(25^{\circ}C)$; pH 6.5–7.0; Permeate flow rate for each element may vary but will be no more than +25 / -25%.

Dimensions and Weight

Model Name	Α	В	С	D/E	Part Number	
					Inter-Connector	Brine Seal
RE2540-FEn	40.0 inch (1,016 mm)	2.4 inch (60.8 mm)	0.75 inch (19.1m)	1.05 inch (26.7 mm)	SWA01050	SWA01047



- 1. Each membrane element supplied with one interconnector (coupler) and four O-rings.
- 2. All RE2540 elements fit nominal 2.5 inch (63.5 mm) I.D. pressure vessels.

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APPLICATION DATA •

Operating Limits

Max. Pressure Drop / Element 15 psi (0.10 MPa) Max. Pressure Drop / 240" Vessel 60 psi (0.41 MPa)
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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 – 13.0
Max. Turbidity 1.0 NTU
Max. SDI (15 min) 5.0
Max. Chlorine Concentration < 0.1 mg/L

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.
- Stabilized salt rejection is generally achieved within 1~48 hours of continuous use.

- 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.