RE4021-BLN



Low pressure grade RO element for brackish water

• Low-Energy Consumption







SPECIFICATIONS •

General Features

Permeate Flow Rate 1,200 GPD (4.5 m³/day)

Nominal Salt Rejection 99.2% (Minimum 99.0%)

Effective Membrane Area 35ft² (3.3 m²)

Membrane Type Thin-Film Composite

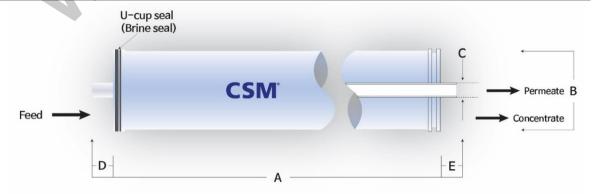
Membrane Material Polyamide (PA)

Element Configuration Spiral-Wound, FRP Wrapping

Test Conditions: 1,500 mg/L NaCl solution at 150 psig (1.03 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%.

Dimensions and Weight

Model Name	A	В	С	D/E	Part Number	
					Inter-Connector	Brine Seal
RE4021-BLN	21.0 inch (533.4 mm)	3.9 inch (99 mm)	0.75 inch (19.1 mm)	1.1 inch (28.0 mm)	SWA01050	SWA01046



- 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.

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

RE4021-BLN



Low pressure grade RO element for low TDS water

APPLICATION DATA

Operating Limits

15 psi (0.10 MPa) Max. Pressure Drop / Element Max. Pressure Drop / 240" Vessel 60 psi (0.41 MPa) 600 psi (4.14 MPa) Max. Operating Pressure 18 gpm (4.09 m³/hr) Max. Feed Flow Rate Min. Concentrate Flow Rate 4 gpm (0.91 m³/hr) Max. Operating Temperature 113°F (45°C) 2.0 - 11.0**Operating pH Range CIP pH Range** 1.0 - 13.0Max. Turbidity 1.0 NTU 5.0 Max. SDI (15 min) 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.
- 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.