RE4040-BLF



Ultra-low pressure grade RO element for low TDS water

• Ultra-Low-Energy Consumption





SPECIFICATIONS •-

General Features

Permeate Flow Rate 2,500 GPD (9.5 m³/day)

Nominal Salt Rejection 99.2% (Minimum 99.0%)

Effective Membrane Area 85ft² (7.9 m²)

Membrane Type Thin-Film Composite

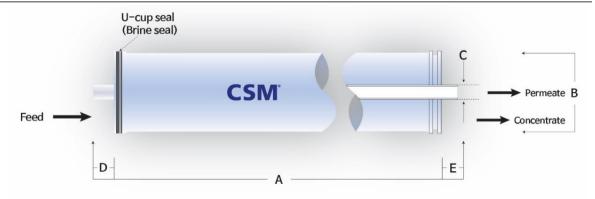
Membrane Material Polyamide (PA)

Element Configuration Spiral-Wound, FRP Wrapping

Test Conditions: 500 mg/L NaCl solution at 100 psig (0.69 MPa) applied pressure; 15% recovery; $77^{\circ}F(25^{\circ}C)$; pH 6.5–7.0; Permeate flow rate for each element may vary +25 / -15%.

Dimensions and Weight

	Model Name	Α	В	С	D/E	Part Number	
						Inter-Connector	Brine Seal
-	RE4040-BLF	40.0 inch (1,016 mm)	3.9 inch (99.0 mm)	0.75 inch (19.1 mm)	1.05 inch (26.7 mm)	SWA01050	SWA01046



- 1. Each membrane element supplied with one interconnector (coupler) and four O-rings.
- 2. All RE4040 elements fit nominal 4.0 inch (101.6 mm) I.D. pressure vessels.

RE4040-BLF



Ultra-low pressure grade RO element for low TDS 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	< 0.05 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.

