

# RE4040-BLF

Ultra-low pressure grade RO element for low TDS water



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- Ultra-Low-Energy Consumption



Municipal

## SPECIFICATIONS

### General Features

Permeate Flow Rate	2,500 GPD (9.5 m <sup>3</sup> /day)
Nominal Salt Rejection	99.2% (Minimum 99.0%)
Effective Membrane Area	85ft <sup>2</sup> (7.9 m <sup>2</sup> )
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°F (25°C); pH 6.5–7.0; Permeate flow rate for each element may vary +25 / -15%.

### Dimensions and Weight

Model Name	A	B	C	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.

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## APPLICATION DATA

### Operating Limits

<b>Max. Pressure Drop / Element</b>	15 psi (0.10 MPa)
<b>Max. Pressure Drop / 240" Vessel</b>	60 psi (0.41 MPa)
<b>Max. Operating Pressure</b>	600 psi (4.14 MPa)
<b>Max. Feed Flow Rate</b>	18 gpm (4.09 m <sup>3</sup> /hr)
<b>Min. Concentrate Flow Rate</b>	4 gpm (0.91 m <sup>3</sup> /hr)
<b>Max. Operating Temperature</b>	113°F (45°C)
<b>Operating pH Range</b>	2.0 – 11.0
<b>CIP pH Range</b>	1.0 – 13.0
<b>Max. Turbidity</b>	1.0 NTU
<b>Max. SDI (15 min)</b>	5.0
<b>Max. Chlorine Concentration</b>	< 0.1 mg/L

- 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.



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