



• High Permeate Flow and High Rejection

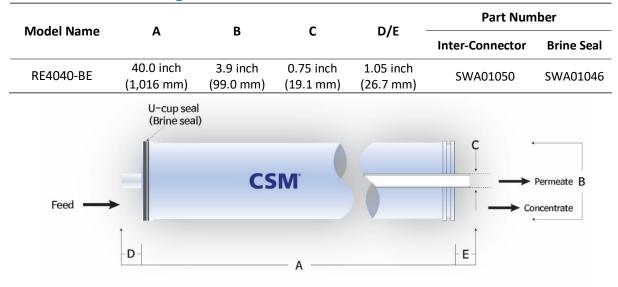


### **SPECIFICATIONS** -

General Features	
Permeate Flow Rate	2,400 GPD (9.1 m <sup>3</sup> /day)
Nominal Salt Rejection	99.7% (Minimum 99.4%)
Effective Membrane Area	85 ft <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:** 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 +25 / -15%.

#### **Dimensions and Weight**



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.

For more information on our products, company and regional contacts, please visit our website at <u>www.csmfilter.com</u>. Product Specification Sheet / Model RE4040-BE

# **RE4040-BE**



High productivity RO element for brackish water

## APPLICATION DATA -

#### **Operating Limits**

Max. Pressure Drop / Element15 psi (0.10 MPa)Max. Pressure Drop / 240" Vessel60 psi (0.41 MPa)Max. Operating Pressure600 psi (4.14 MPa)Max. Feed Flow Rate18 gpm (4.09 m³/hr)Min. Concentrate Flow Rate4 gpm (0.91 m³/hr)Max. Operating Temperature113°F (45°C)Operating pH Range2.0 – 11.0CIP pH Range1.0 – 13.0Max. Turbidity5.0Max. SDI (15 min)5.0Max. Chlorine Concentration<0.05 mg/L		
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Max. Feed Flow Rate18 gpm (4.09 m³/hr)Min. Concentrate Flow Rate4 gpm (0.91 m³/hr)Max. Operating Temperature113°F (45°C)Operating pH Range2.0 – 11.0CIP pH Range1.0 – 13.0Max. Turbidity1.0 NTUMax. SDI (15 min)5.0	Max. Pressure Drop / 240" Vessel	60 psi (0.41 MPa)
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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. Feed Flow Rate	18 gpm (4.09 m³/hr)
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	Min. Concentrate Flow Rate	4 gpm (0.91 m <sup>3</sup> /hr)
CIP pH Range 1.0 – 13.0   Max. Turbidity 1.0 NTU   Max. SDI (15 min) 5.0	Max. Operating Temperature	113°F (45°C)
Max. Turbidity   1.0 NTU     Max. SDI (15 min)   5.0	Operating pH Range	2.0 - 11.0
Max. SDI (15 min) 5.0	CIP pH Range	1.0 - 13.0
	Max. Turbidity	1.0 NTU
Max. Chlorine Concentration< 0.05 mg/L	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.

