## RE4040-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 2,400 GPD (9.1 m<sup>3</sup>/day)

Nominal Salt Rejection 99.7% (Minimum 99.4%)

Effective Membrane Area 85ft<sup>2</sup> (7.9 m<sup>2</sup>)

Membrane Type Thin-Film Composite

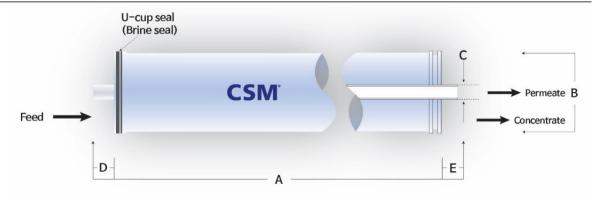
Membrane Material Polyamide (PA)

**Element Configuration** Spiral-Wound, FRP Wrapping

**Test Conditions:** 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 / -15%.

### **Dimensions and Weight**

Model Name	Α	В	С	D/E	Part Number	
					Inter-Connector	Brine Seal
RE4040-FEn	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**

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	< 0.1 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.