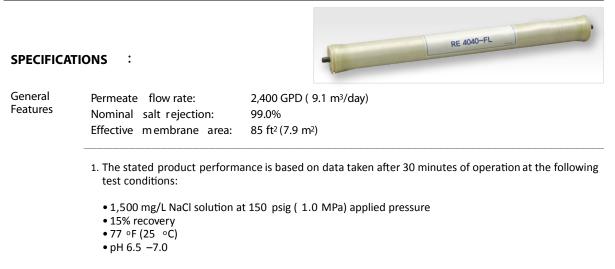
RE 4040-FL

WOCO Corp.

Low pressure grade fouling resistant RO element for brackish water and wastewater reuse

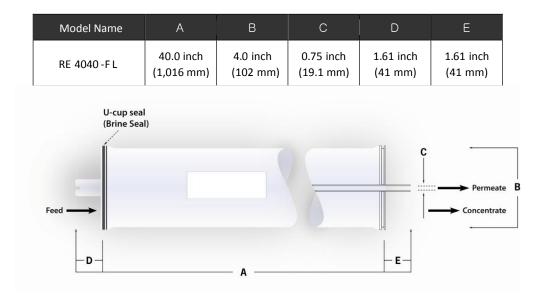


2. Minimum salt rejection is 98.5%.

- 3. Permeate flow rate for each element may vary but will be no more than 10%.
- 4. All elements are vacuum sealed in a polyethylene bag containing 1.0% SBS (sodium bisulfite) solution and individually packaged in a cardboard box.

Membrane type: Membrane material: Element configuration: Thin-Film Composite Polyamide (PA) Spiral-Wound, FRP Wrapping

Dimensions



1. Each membrane elementsupplied with one brine seal, one interconnector (coupler) and four o-rings. 2. All RE4040 elements fit nominal 4.0 inch (102 mm) I.D. pressure vessels.

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RE 4040-FL

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APPLICATION DATA

Operating Limits	· Max. Pressure Drop / Element	15 psi (0.1 MPa)
	Max.Pressure D rop / 240" Vessel	60 psi (0.41 Mpa)
	Max. O perating Pressure	600 psi (4.14 MPa)
	Max.Feed Flow Rate	18 gpm (4.09 m ³ /hr)
	Min.Concentrate Flow Rate	4 gpm (0.91 m ³ /hr)
	Max. O perating Temperature	113 °F (45 °C)
	Operating pH Range	3.0–10.0
	· CIP pH Range	2.0–11.0
	Max.Turbidity	1.0 NTU
	 Max. SDI (15 min) 	5.0
	• Max. Chlorine Concentration	< 0.1 mg/L
Design Guidelines for Various Water Sources	• Wastewater Conventional (SDI < 5)	8–12 gfd
	• Wastewater Pretreated by UF/MF (SDI < 3)	10–14 gfd
	• Seawater, Open Intake (SDI < 5)	7–10 gfd
	Seawater, Beach Well (SDI < 3)	8–12 gfd
	• SurfaceWater (SDI < 5)	12–16 gfd
	• SurfaceWater (SDI < 3)	13–17 gfd
	· Well water (SDI < 3)	13–17 gfd
	RO permeate (SDI < 1)	21–30 gfd
Saturation Limits (Using Antiscalants) [†]	 Langlier Saturation Index (LSI) 	<+1.5
	 Stiff and Davis Saturation Index (SDSI) 	<+0.5
	• CaSO 4	230% saturation
	· SrSO 4	800% saturation
	· BaSO 4	6,000% saturation
	• SiO 2	100% saturation
	[†] The above saturation limits are typically accepted by proprietary antiscalant manufacturers. It is the user's responsibility to ensure proper chemical(s) and concentration are dosed ahead of the membrane system to prevent scale formation anywhere within the membrane system. Membrane elements fouled or damaged due to scale formation are not covered by the limited warranty.	

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. If the polyethylene bag is damaged a new preservative solution (sodium bisulfite) must be added and air-tight sealed to prevent drying and biological growth.
- Permeate from the first hour of operation should be discarded to flush out the preservative solution.
- Elements should be immersed in a preservative solution during storage, shipping and system shutdowns to prevent biological growth and freezing. The standard storage solution contains 1% by weight sodium bisulfite or sodium metabisulfite (food grade). For short term storage (i.e. one week or less) 1% by weight sodium metabisulfite solution is adequate for preventing biological growth.
- 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.

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