

SPECIFICATIONS:

General Features	Permeate flow rate: Nominal salt rejection: Stabilized salt rejection: Effective membrane area: Feed spacer thickness:	2,280 GPD 96% 99% 85 ft ² (7.9 r 32 mil		m³/day)				
	1. The stated product performance is based on data taken after 30 minutes of operation at the following test conditions:							
	• 2,000 mg/L NaCl solution at 225 psig (1.5 MPa) applied pressure • 15% recovery • 77 °F (25 °C) • pH 6.5–7.0							
	 Minimum salt rejection is 99.0%. Permeate flow rate for each element may vary but will be no more than 15%. All elements are vacuum sealed in a polyethylene bag containing 1.0% SBS (sodium bisulfite) solution and individually packaged in a cardboard box. 							
	 Salt rejection has a tendency to increase until 300ppm-hr of free chlorine exposure Maximum Chlorine Exposure Limit 5,000ppm-hr (After 5,000ppm-hr of free chlorine exposure, expect salt passage to double from its initial value) 	a alt rejection (%)	100.0 - 99.0 - 98.0 - 97.0 -					
			96.0 -			-		_

• Test Conditions : Equivalent to standard conditions stated above 0 100 200 Exposure concentrate of free chorine (ppm.hr)

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

Dimensions and Weight	Model Name	A	В	С	D	E	Part N Inter-	Number Brine Seal	
Weight							connector	Brille Seal	
	RE4040-CE	40.0	4.0	0.75	1.05	1.05	40000305	40000306	
	RE4040-CE	(1,016)	(102)	(19.1)	(26.7)	(26.7)	40000305	40000306	

* All measurements are in inches (millimeters)

- I. Each membrane element supplied 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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RE4040-CE

Innovative chlorine resistant RO element for prolonged membrane lifetime



APPLICATION DATA:

Operating Limits	 Max. Pressure Drop / Element Max. Pressure Drop / 240" Vessel Max. Operating Pressure Max. Feed Flow Rate Min. Concentrate Flow Rate Max. Operating Temperature Operating pH Range CIP pH Range Max. Turbidity Max. SDI (15 min) 	15 psi (0.1 MPa) 60 psi (0.41 Mpa) 600 psi (4.14 MPa) 18 gpm (4.09 m³/hr) 4 gpm (0.91 m³/hr) 113 °F (45 °C) 2.0−11.0 1.0−13.0 1.0 NTU 5.0
Design Guidelines for Various Water Sources	 Wastewater Conventional (SDI < 5) Wastewater Pretreated by UF/MF (SDI < 3) Seawater, Open Intake (SDI < 5) Seawater, Beach Well (SDI < 3) Surface Water (SDI < 5) Surface Water (SDI < 3) Well water (SDI < 3) RO permeate (SDI < 1) 	8–12 gfd 10–14 gfd 7–10 gfd 8–12 gfd 12–16 gfd 13–17 gfd 13–17 gfd 21–30 gfd
Saturation Limits (Using Antiscalants) [†]	 Langlier Saturation Index (LSI) Stiff and Davis Saturation Index (SDSI) CaSO4 SrSO4 BaSO4 SiO2 ¹The above saturation limits are typically accepted by manufacturers. It is the user's responsibility to ensure concentration are dosed ahead of the membrane syst formation anywhere within the membrane system. M or damaged due to scale formation are not covered 	e proper chemical(s) and tem to prevent scale embrane elements fouled

GENERAL HANDLING PROCEDURES

- Elements contained in the boxes must be kept dry at room temperature $(7-32^{\circ}C; 40-95^{\circ}F)$ 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.