RE8040 - FLR 440

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Fouling resistant RO element with low pressure for brackish water and wastewater reuse

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SPECIFICATIONS

General Features	Permeate flow rate: Nominal salt reject Effective membrane	ion: 99	900 GPD (37.4 .6% 0 ft² (40.9 m²)					
	 The stated product performance is based on data taken after 30 minutes of operationat the following test conditions: 1,500 mg/L NaCl solution at 150 psig (1.0 MPa) applied pressure 15% recovery 77 °F (25 °C) pH 6.5 -7.0 							
		Membrane type: Thin-Film Composite Membrane material: Polyamide(PA) Element configuration: Spiral-Wound, FRP W rapping						
Dimensions and Weight				с	Weight	Part Number		
	Model Name	A	В			Inter - connector	Brine Seal	
	RE 8040-FLR440	40.0 inch (1,016 mm)	8.0 inch (201 mm)	1.12 inch (28 mm)	15 kg	40000308	40000309	
	Feed		FRP wrappin	g			→ Permeate B → Concentrate	
	1. Each membrane 2. All RE8040 elem					(coupler) and fou	ır o-rings.	

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The information provided in this document is solely for informative purposed is the user's responsibility to ensure the appropriate usage of this productWoongjin Chemical assumes no obligation, liability damages incurred for the misuse of the product or for the information provided in this documentThis document does not express or implies any warranty as to the merchantability or fitness of the product.

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APPLICATION DATA

Operating Limits	 Max. Pressure Drop / Element 	15 psi (0.1 MPa)		
	 Max. Pressure Drop / 240" Vessel 	60 psi (0.41 Mpa) 600 psi (4.14 MPa) 75 gpm (17.0 m³/hr) 16 gpm (3.6 m³/hr) 113 °F (45 °C) 2.0–11.0 1.0–13.0 1.0 NTU		
	 Max. O peratingPressure 			
	 Max. Feed Flow Rate 			
	 Min.Concentrate Flow Rate 			
	 Max. O peratingTemperature 			
	 Operating pH Range 			
	CIP pH Range			
	 Max.Turbidity 			
	Max.SDI (15 min)	5.0		
	Max. Chlorine Concentration	< 0.1 mg/L		
Design Guidelines for Various	 Waste water Conventional (SDI < 5) 	8–12 gfd		
Water Sources	• 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		
	• SurfaceW ater (SDI < 3)	13–17 gfd		
	• Well water (SDI < 3)	13–17 gfd		
	RO permeate (SDI < 1)	21–30 gfd		
Saturation Limits	Langlier Saturation Index(LSI)	<+1.5		
(Using Antiscalants) ⁺	• 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 waranty.			

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 airtight 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 ad 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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