RE8040 - FL 440

:

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

LENNTECH info@lenntech.com Tel. +31-152-610-900 www.lenntech.com Fax. +31-152-616-289

SPECIFICATIONS

General Features	Permeate flow rate: Nominal salt reject Effective membrane	ion: 99	,100 GPD (45 .0% 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 Minimum salt ejection is 98.5%. 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) solutior and individuallypackaged in a cardboard box. Membrane type: Thin-Film Composite Membrane material: Polyamide(PA) Element configuration: Spiral-Wound, FRP W rapping 														
									Dimensions and Weight	Model Name A		D		\\/a:=b+	Part Number
Model Name										A	В	С	Weight	Inter - connector	Brine Seal
RE 8040-FL440	40.0 inch (1,016 mm)	8.0 inch (201 mm)	1.12 inch (28 mm)	15 kg	40000308	40000309									
	U-cup (Brine		FRP wrappin	ng			→ Permeate B → Concentrate								

CSM

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

ent with low pressure for brackish water and wastewater reuse

CSM

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)		
	 Max. O peratingPressure 			
	 Max. Feed Flow Rate 	75 gpm (17.0 m³/hr)		
	 Min.Concentrate Flow Rate 	16 gpm (3.6 m³/hr)		
	 Max. O peratingTemperature 	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		
Design Guidelines for Various	 Waste water Conventional (SDI < 5) 	8–12 gfd		
Water Sources	• Waste water Pretreated by UF/MF (SDI < 3)	10–14 gfd		
	 Seawater, O pen 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	Langlier Saturation Index(LSI)	<+1.5		
(Using Antiscalants) [†]	 Stiff and Davis Saturation Index (SDSI) 	<+0.5		
	• CaSO 4	230% saturation		
	· SrSO ₄	800% saturation		
	· BaSO4	6,000% saturation		
	· SiO ₂	100% saturation		
	[†] The above saturation limits are typically accepted manufacturers. It is the user's responsibility to ensur concentration are dosed ahead of the membrane sy formation anywhere within the membrane system. or damaged due to scale formation are not covered	ypically accepted by proprietary antiscalant onsibility to ensure proper chemical(s) and f the membrane system to prevent scale sembrane system. Membrane 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 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 andystem 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.

LENNTECH info@lenntech.com Tel. +31-152-610-900 www.lenntech.com Fax. +31-152-616-289