RE 4021-BLF

:

Ultra-low pressure RO element for low TDS water

SPECIFICATIONS

General Features	Permeateflow rate:1,050 GPD (4.0 m³/day)Stabilizedsalt rejection:99.2%Effectivemembranearea:35 ft² (3.3 m²)									
	1. The stated product performance is based on data taken after 30 minutes of operationat the followingtest conditions:									
	 500 mg/L NaCl solution at 100 psig (0.7 MPa) applied pressure 8% 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 individuallypackaged in a cardboard box. 									
	Membrane type: Membrane material: Element configuration:		Thin-Film Composite Polyamide (PA) Spiral-Wound, FRP Wrapping							
Dimensions							Part Number			
	Model Name	A	В	С	D	E	Inter - connector	Brine Seal		

CSM



0.75 inch

(19.1 mm)

1.05 inch

(26.7 mm)

1.05 inch

(26.7 mm)

40000305

40000306

1. Each membrane elementsupplied with one brine seal, one interconnector (coupler) and four o-rings. 2. All RE4021 elementsfit nominal4.0 inch (102 mm) I.D. pressure vessels.

4.0 inch

(102 mm)

21.0 inch

(534 mm)

RE40 21-BLF

The information provided in this document is solely for informative purposes. It is the user's responsibility to ensure the appropriate usage of this productWoongjin Chemical assumes no obligation, liability or 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

a					
Operating Limits	 Max. Pressure Drop / Element 	15 psi (0.1 MPa)			
	 Max. Pressure Drop / 240" Vessel 	60 psi (0.41 Mpa)			
	 Max. O peratingPressure 	600 psi (4.14 MPa)			
	 Max. Feed Flow Rate 	13 gpm (2.95 m³/hr) 3 gpm (0.68 m³/hr) 113 °F (45 °C) 2.0–11.0			
	 Min.Concentrate Flow Rate 				
	 Max. O peratingTemperature 				
	 Operating pH Range 				
	· 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	• Wastewater 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			
	• BaSO4	6,000% saturation			
	· SiO ₂	100% saturation			
	manufacturers. It is the user's responsibility to ensu concentration are dosed ahead of the membrane s formation anywhere within the membrangystem.	re saturation limits are typically accepted by proprietary antiscalant urers. It is the user's responsibility to ensure proper chemical(s) and ationare dosed ahead of the membrane system to prevent scale anywhere within the membranesystem. Membrane elements fouled ed 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 $(7-32^{\circ}C; 40-95^{\circ}F)$ 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 seaded 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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