RE 4040-SH A



AGUA CONTROL

AGUA CONTROL LLC 5609 E ADAMO DRIVE STE.D TAMPA FL, 33619 (813) 621-7774 (813) 621-7776

High productivity RO element for seawater and high salinity well water

SPECIFICATIONS

General Features

Permeate flow rate: 1,400 GPD (5.3 m³/day)

Nominal salt rejection: 99.75% Effective membrane area: 74 ft² (6.9 m²)

 The stated product performance is based on data taken after 30 minutes of operationat the following test conditions:

• 32,000 mg/L NaCl solution at 800 psig (5.5 MPa) applied pressure

8% recovery

• 77 °F (25 °C)

• pH 6.5 –7.0

- 2. Boron rejection is 92.0% at pH 8.0 and 5 mg/L boron feed with the same test conditions as above.
- 3. Minimum salt rejection is 99.6%.
- 4. Permeate flow rate for each element may vary but will be no more than 20%.
- 5. All elements are vacuum sealed in a polyethylene bag containing 1.0% SBS (sodiu**b**isulfite) solution and individually packaged in a cardboard box.

Membrane type: Thin-Film Composite

Membrane material: Polyamide(PA)

Element configuration: Spiral-Wound, FRP W rapping

Dimensions

		В	С	D	E	Part Number	
Model Name	Α					Inter - connector	Brine Seal
RE40 40-SHA	40.0 inch (1,016 mm)	4.0 inch (102 mm)	0.75 inch (19.1 mm)	1.05 inch (26.7 mm)	1.05 inch (26.7 mm)	40000305	40000306



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

The information provided in this document is solely for informative purposest 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 :		
Operating Limits	· Max.Pressure Drop / Element	15 psi (0.1 MPa)
	Max. Pressure Drop / 240" Vessel	60 psi (0.41 Mpa)
	Max. O perating Pressure	1,200 psi (8.27 MPa)
	· Max. Feed Flow Rate	18 gpm (15.0 m²/hr)
	 Min.C oncentrate Flow Rate 	4 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. C hlorine C oncentration	< 0.1 mg/L
esign Guidelines for Various	Waste water Conventional (SDI < 5)	8–12 gfd
ater Sources	 Wastewater 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
	 SurfaceW ater (SDI < 3) 	13-17 gfd
	Well water (SDI < 3)	13–17 gfd
	· RO permeate (SDI < 1)	21–30 gfd
aturation Limits	· Langlier Saturation Index(LSI)	<+1.5
Jsing 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 manufacturers. It is the user's responsibility to ensu concentration are dosed ahead of the membrane sy formation anywhere within the membrane system.	re proper chemical(s) and ystem to prevent scale

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 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 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.

or damaged due to scale formation are not covered by the limited waranty.

- 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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