RE 4040-SH F



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: 1,900 GPD (7.2 m³/day)

Nominal salt rejection: 99.7% Effective membrane area: 75 ft² (7.0 m²)

1. 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. Minimum salt rejection is 99.6%.
- 3. Permeate flow rate for each element mayvary but will be no more than 20%.
- 4. All elements are vacuum sealed in a polyethylene bag containing 1.0% SBS (sodium bisulfite) solution and individuallypackaged in a cardboard box.

Membrane type: Thin-Film Composite

Membrane material: Polyamide(PA)

Element configuration: Spiral-Wound, FRP W rapping

Dimensions

Model Name	A	В	С	D	E	Part Number	
						Inter - connector	Brine Seal
RE40 40-SHF	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 elementupplied with one brine seal, one interconnector (coupler) and four o-rings.
- 2. All RE4040 elementsfit nominal4.0 inch (102 mm) I.D. pressure vessels.

The information provided in this document is solely for informative purposes It is the user's responsibility to ensure the appropriate usage of this product Woongjin Chemical assumes no obligation, liability or damages incurred for the misuse of the product or for the information provided in this document. This 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 Max. Pressure Drop / 240" Vessel Max. O peratingPressure Max. Feed Flow Rate Min. C oncentrate Flow Rate Max. O peratingTemperature Operating pH Range CIP pH Range Max. Turbidity Max. SDI (15 min) Max. C hlorine C oncentration 	15 psi (0.1 MPa) 60 psi (0.41 Mpa) 1,200 psi (8.27 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 < 0.1 mg/L
Design Guidelines for Various Water Sources	 Wastewater Conventional (SDI < 5) Wastewater Pretreated by UF/MF (SDI < 3) Seawater,O pen Intake (SDI < 5) Seawater,Beach Well (SDI < 3) SurfaceWater (SDI < 5) SurfaceWater (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) CaSO 4 SrSO 4 BaSO 4 SiO 2 The above saturation limits are typically accepted b manufacturers. It is the user's responsibility to ensure concentration	proper chemical(s) and stem toprevent scale Membrane elements fouled

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 initialwetting.
- 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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