## RE8040 - SHF



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: 9,000 GPD (34.1 m<sup>3</sup>/day)

Nominal salt rejection: 99.7%

Effective membrane area: 370 ft2 (34.4 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. Minimum salt rejection is 99.6%.

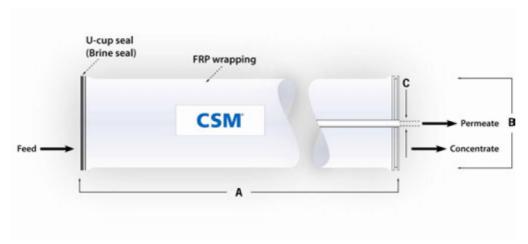
- 3. Permeate flow rate for each element may vary but will be no more than 15%.
- 4. All elements are vacuum sealed in a polyethylene bag containing 1.0% SBS (sodium bisulfite) solution and individually packaged in a cardboard box.

Membrane type: Thin-Film Composite
Membrane material: Polyamide(PA)

Element configuration: Spiral-Wound, FRP W rapping

Dimensions and Weight

				Weight	Part Number	
Model Name	A	В	С		Inter - connector	Brine Seal
RE 8040-SHF	40.0 inch (1,016 mm)	8.0 inch (201 mm)	1.12 inch (28 mm)	15 kg	40000308	40000309



- 1. Each membrane element upplied with one brine seal, one interconnector (coupler) with four o-rings.
- 2. All RE8040 elements fit nominal 8.0 inch (201 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 does not express or implies any warranty as to the merchantability or fitness of the product.

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APPLICATION DATA :		
Operating Limits	<ul> <li>Max. Pressure Drop / Element</li> <li>Max. Pressure Drop / 240" Vessel</li> <li>Max. O peratingPressure</li> <li>Max. Feed Flow Rate</li> <li>Min. C oncentrate Flow Rate</li> <li>Max. O peratingTemperature</li> <li>Operating pH Range</li> <li>CIP pH Range</li> <li>Max. Turbidity</li> <li>Max. SDI (15 min)</li> <li>Max. C hlorine C oncentration</li> </ul>	15 psi (0.1 MPa) 60 psi (0.41 Mpa) 1,200 psi (8.27 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 5.0 < 0.1 mg/L
Design Guidelines for Various Water Sources	<ul> <li>Wastewater Conventional (SDI &lt; 5)</li> <li>Wastewater Pretreated by UF/MF (SDI &lt; 3)</li> <li>Seawater, O pen Intake (SDI &lt; 5)</li> <li>Seawater, Beach Well (SDI &lt; 3)</li> <li>SurfaceWater (SDI &lt; 5)</li> <li>SurfaceWater (SDI &lt; 3)</li> <li>Well water (SDI &lt; 3)</li> <li>RO permeate (SDI &lt; 1)</li> </ul>	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) †	<ul> <li>Langlier Saturation Index(LSI)</li> <li>Stiff and Davis Saturation Index(SDSI)</li> <li>CaSO 4</li> <li>SrSO 4</li> <li>BaSO 4</li> <li>SiO 2</li> <li><sup>†</sup>The above saturation limits are typically accepted I manufacturers. It is the user's responsibility to ensur concentration are dosed ahead of the membrane system. I or damaged due to scale formation are not covered.</li> </ul>	e proper chemical(s) and ystem to prevent 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 **b**ulfite 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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