# RE8040 -SH A 400



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

High productivity RO element with extended area for seawater and high salinity well water

SPECIFICATIONS

General Features

Permeate flow rate: 7,500 GPD (28.4 m<sup>3</sup>/day)

Nominal salt rejection: 99.75%

Effective membrane area: 400 ft<sup>2</sup> (37.2 m<sup>2</sup>)

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

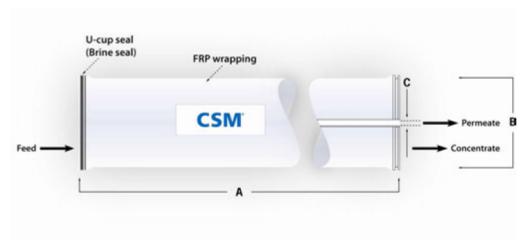
- 2. Boron rejection is 92.0% at pH 8.0 and 5 mg/L boron feed with the same test conditions as above.
- 3. Minimum salt rejection is 99.6%.
- 4. Permeate flow rate for each element may vary but will be no more than 15%
- 5. All elements are vacuum sealed in a polyethylene bag containg 1.0% SBS (sodium 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

Model Name	A	В	С	Weight	Part Number	
					Inter - connector	Brine Seal
RE 8040-SHA400	40.0 inch (1,016 mm)	8.0 inch (201 mm)	1.12 inch (28 mm)	15 kg	40000308	40000309



- 1. Each membrane elementupplied with one brine seal, one interconnector (coupler) and 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 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 document does not express or implies any warranty as to the merchantability or fitness of the product.

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seawater and high salinity well water

< 0.1 mg/L

#### APPLICATION DATA

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· Max. Pressure Drop / Element 15 psi (0.1 MPa) · Max. Pressure Drop / 240" Vessel 60 psi (0.41 Mpa) 1,200 psi (8.27 MPa) · Max. Operating Pressure · Max. Feed Flow Rate 75 gpm (17.0 m<sup>3</sup>/hr) · Min.Concentrate Flow Rate 16 gpm (3.6 m<sup>3</sup>/hr) · Max. O peratingTemperature 113 °F (45 °C) · Operating pH Range 2.0-11.0 1.0-13.0 · CIP pH Range · Max.Turbidity 1.0 NTU · Max.SDI (15 min) 5.0

#### Design Guidelines for Various Water Sources

Wastewater Conventional (SDI < 5)	8–12 gfd
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
SurfaceWater (SDI < 3)	13-17 gfd
Well water (SDI < 3)	13-17 gfd
RO permeate (SDI < 1)	21-30 gfd

· Max. Chlorine Concentration

#### Saturation Limits (Using Antiscalants)

- Langlier Saturation Index(LSI)
   Stiff and Davis Saturation Index(SDSI)
   <+0.5</li>
- CaSO 4
   SrSO 4
   BaSO 4
   BaSO 4
   SiO 2
   Casturation
   Basuration
   SiO 2
   Casturation
   SiO 2
   Saturation
   SiO 2

<sup>†</sup>The above saturation limits are typically accepted by proprietary antiscalant manufacturersIt is the user's responsibility to ensure proper chemical(s) and concentration are dosed ahead of the membrane system to prevent scale formation anywhere within the membrane system. Membrane elements fouled or damaged due to scale formation are not coveed by the limited warranty.

### 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.
- Only use chemicals compatible with the membrane elements and components. Use of sub 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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