NE8040-90





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

(813) 621-7776

Normal grade NF element with high monovalent ion rejection

SPECIFICATIONS

General Features Permeate flow rate 1: 7,500 GPD (28.4 m³/day)

Monovalent ion rejection (NaCl) 1: 85.0 - 95.0%Divalent ion rejection (CaCl 2)2: 90.0 - 95.0%Effective membrane area: $400 \text{ ft}^2 (37.2 \text{ m}^2)$

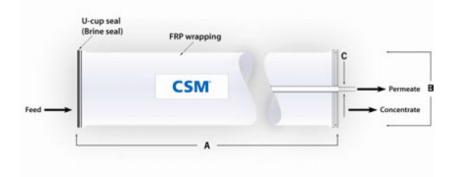
- The stated product performance is based on data taken after 30 minutes of operationat the following monovalenttest conditions:
 - 2,000 mg/L NaCl solution at 75 psig (0.5 MPa) applied pressure
 - 15% recov ery
 - 77 °F (25 °C)
 - pH 6.5 -7.0
- 2. The stated product performance is based on data taken after 30 minutes of operationat the following divalent test conditions:
 - 500 mg/L CaCl 2 solution at 75 psig (0.5 MPa) applied pressure
 - 15% recovery
 - 77 °F (25 °C)
 - pH 6.5 -7.0
- 3. MgSO₄ rejection is 97.0%.(Test conditions are equivalent with NaCI)
- 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 (sodium bisulfite) ution 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
N E 8040 -90	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) and four o-rings.
- 2. All NE8040 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 product Woongjin Chemical assumes no obligation, liability or damages incurrefor 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

AFFLICATION DATA .		
Operating Limits	 Max. Pressure Drop / Element Max. Pressure Drop / 240" Vessel Max. O perating Pressure Max. Feed Flow Rate Min. Concentrate Flow Rate Max. O perating Temperature 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) 600 psi (4.14 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	 Waste water Conventional (SDI < 5) Waste water Pretreated by UF/MF (SDI < 3) Seawater, O pen Intake (SDI < 5) Seawater, Beach Well (SDI < 3) SurfaceW ater (SDI < 5) Surface W ater (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 manufacturers. It is the user's responsibility to ensu concentration are dosed ahead of the membrane system. 	re 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 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 warranty.

- 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.

