## NE4040-70



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## Normal grade NF element with high monovalent ion rejection

SPECIFICATIONS

General Features

Permeate flow rate 1: 1,500 GPD (5.7 m³/day)

Monovalent ion rejection (NaCl) 1: 40.0 - 70.0%Divalent ion rejection (CaCl 2) 2: 45.0 - 70.0%Effective membrane area:  $85 \text{ ft}^2 (7.9 \text{ m}^2)$ 

- 1. 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% recovery
  - 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. MgSO<sub>4</sub> 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%.
- All elements are vacuum sealed in a polyethylene bag containing 1.0% SBS (sodium bisulfite) soluti and individuallypackaged 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	D	E	Part Number	
						Inter - connector	Brine Seal
N E40 40-70	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 element upplied with one brine seal, one interconnector (coupler) and four o-rings.
- 2. All NE4040 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; abbility 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.

## NE4040-70



Normal grade NF ele ment with medium monovalent ion rejection

APPLICATION DATA :							
Operating Limits	<ul> <li>Max. Pressure Drop / Element</li> <li>Max. Pressure Drop / 240" Vessel</li> <li>Max. O perating Pressure</li> <li>Max. Feed Flow Rate</li> <li>Min. C oncentrate Flow Rate</li> <li>Max. O perating Temperature</li> </ul>	15 psi (0.1 MPa) 60 psi (0.41 Mpa) 600 psi (4.14 MPa) 18 gpm (4.09 m³/hr) 4 gpm (0.91 m³/hr) 113 °F (45 °C)					
	Operating pH Range CIP pH Range Max.Turbidity Max.SDI (15 min) Max. Chlorine Concentration	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>Waste water Conventional (SDI &lt; 5)</li> <li>Waste water 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>SurfaceW ater (SDI &lt; 5)</li> <li>SurfaceW ater (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>BaSO4</li> <li>SiO2</li> <li>The above saturation limits are typically accepted manufacturers. It is the user's responsibility to ensure concentration are dosed ahead of the membrane system.</li> </ul>	reproper chemical(s) and ystem to prevent scale Membrane elements fouled					

GENERAL HANDL ING 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 **tor**event 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 waranty.
- Permeate pressure must always be equal or less than the feed/concentrate pressure. Damage caused by permeate back pressure voids the element limited warranty.

