



Normal grade NF element with high monovalent ion rejection

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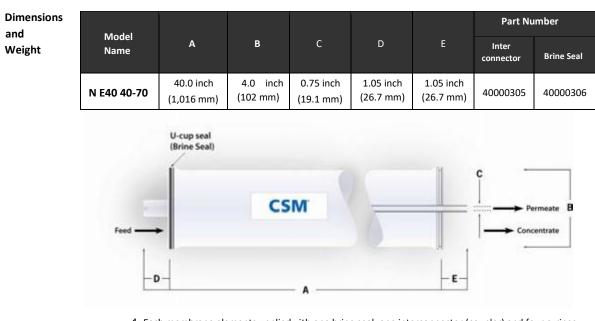
## SPECIFICATIONS

General	Permeate flow rate 1:	1,500 GPD ( 5.7 m³/day)
Features	Monovalent ion rejection (NaCl) 1:	40.0 - 70.0%
	Divalent ion rejection (CaCl 2)2: Effective membrane area:	45.0 – 70.0% 85 ft² (7.9 m²)

- 1. The stated product performance is based on data taken after 30 minutes of operationa t the following monovalentt est conditions:
  - 2,000 mg/L NaCl solution at 75 psig ( 0.5 MPa) applied pressure
  - 15% recovery
  - 77 °F (52 °C)
  - pH 6.5 –7.0
- 2. The stated product performance is based on data taken after 30 minutes of operationa t the following divalent test conditions:
  - 500 mg/L CaCl 2 solution at 75 psig (0.5 MPa) applied pressure
  - 15% recovery
  - 77 °E (52 °C)
  - pH 6.5 –7.0
- 3. MgSO<sub>4</sub> rejection is 97.0%. (Test conditions are equivalent with N aCl )
- 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) soolunt i and individuallyp ackaged in a cardboard box .

Membrane type:
Membrane material:
Element configuration:

Thin-Film Composite Polyamide(PA) Spiral-Wound, FRP W rapping



1. Each membrane elements 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 purpose. slt is the user's responsibility to ensure the appropriate usage of this productW. oongjin Chemical assumes no obligation, i lability or damages incurred for the misuse of the product or for the information provided in this documentT.his 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> </ul>	15 psi (0.1 MPa) 60 psi (0.41 Mpa)
	· Max. Operating Pressure	600 psi (4.14 MPa)
	· Max. Feed Flow Rate	18 gpm (4.09 m₃/hr)
	· Min. Concentrate Flow Rate	4 gpm (0.91 m₃/hr)
	· Max. OperatingT emperature	113 °F (45 °C)
	· Operating pH Range	2.0–11.0
	· CIP pH Range	1.0–13.0
	· Max. Turbidity	1.0 NTU
	· Max. SDI (15 min)	5.0
	· Max. Chlorine Concentration	< 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, Open Intake (SDI &lt; 5)</li> </ul>	8–12 gfd 10–14 gfd 7–10 gfd
	· Seawater, Beach Well (SDI < 3)	8–12 gfd
	· Surface Water (SDI < 5)	12–16 gfd
	· Surface Water (SDI < 3)	13–17 gfd
	· Well water (SDI < 3)	13–17 gfd
	· RO permeate (SDI < 1)	21–30 gfd

## Saturation Limits (Using Antiscalants)

- Langlier Saturation Index (LSI) <+1.5
- Sti and Davis Saturation Index (SDSI) <+0.5
- CaSO 4 230% saturation
- SrSO4 800% saturation
- BaSO4 6,000% saturation
- SiO2 100% saturation

The above saturation limits are typically accepted by proprietary antiscalant manufacturers. It 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 covered by the limited warranty