NE8040-70

Normal grade NF element with high monovalent ion rejection



SPECIFICATIONS:

General Features	Permeate flow ra Monovalent ion re Divalent ion rejec Effective membra	CI)': 40.0 (4) ² : 99.0	7,000 GPD (26.5 m³/day) 40.0 – 70.0% 99.0% 400 ft² (37.2 m²)						
	 The stated product performance is based on data taken after 30 minutes of operation at the following monovalent test 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 operation at the following divalent test conditions: 2,000 mg/L MgSO₄ solution at 75 psig (0.5 MPa) applied pressure 15% recovery 77 °F (25 °C) pH 6.5-7.0 								
	 Minimum MgSO4 rejection is 98.0%. Permeate flow rate for each element may vary +30 / -15%. Elements are supplied as dry-type. Dry elements are sealed in a poly bag and individually boxed. 								
	Membrane type:Thin-Film CompositeMembrane material:Polyamide (PA)Element configuration:Spiral-Wound, FRPWrapping								
Dimensions			В	с	Weight	Part Number			
and Weight	Model Name	A				Inter- connector	Brine Seal		
	NE8040-70	40.0 inch (1,016 mm)	7.9 inch (200 mm)	1.12 inch (28.5 mm)	15 kg	SWA01049	SWA01043		
		o seal e seal)	FRP wrapp	ing		00.0			



1. Each membrane element supplied with one brine seal, one interconnector (coupler) and four o-rings. 2. All NE8040 elements fit nominal 8.0 inch (203.2 mm) I.D. pressure vessels.

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APPLICATION DATA:

Operating Limits	 Max. Pressure Drop / Element Max. Pressure Drop / 240" Vessel Max. Operating Pressure Max. Feed Flow Rate Min. Concentrate Flow Rate Max. Operating Temperature Operating pH Range CIP pH Range Max. Turbidity Max. SDI (15 min) Max. Chlorine Concentration 	15 psi (0.1 MPa) 60 psi (0.41 Mpa) 600 psi (4.14 MPa) 75 gpm (17.0 m ³ /hr) 16 gpm (3.6 m ³ /hr) 113 °F (45 °C) 3.0–10.0 2.0–11.0 1.0 NTU 5.0 < 0.1 mg/L
Design Guidelines for Various Water Sources	 Wastewater Conventional (SDI < 5) Wastewater Pretreated by UF/MF (SDI < 3) Seawater, Open Intake (SDI < 5) Seawater, Beach Well (SDI < 3) Surface Water (SDI < 5) Surface Water (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) CaSO4 SrSO4 BaSO4 SiO2 ¹The above saturation limits are typically accepted by manufacturers. It is the user's responsibility to ensure concentration are dosed ahead of the membrane syst formation anywhere within the membrane system. M or damaged due to scale formation are not covered 	e proper chemical(s) and stem to prevent scale lembrane 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.
- Permeate from the first hour of operation should be discarded to flush out the preservative solution.
- Used 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 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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