

NE8040-40 HP1

High Pressure NF Membrane

CSM[®]

- High mono/multivalent ion selectivity
- High hardness rejection
- Safe operation up to 50 bar
- Low energy consumption due to high flow rate



Industrial



Water Reuse

SPECIFICATIONS

General Features

Permeate Flow Rate	9,000 GPD (34.1 m ³ /day)
MgSO ₄ Rejection	99.0% (Minimum 98.0%)
Effective Membrane Area	370 ft ² (34.4 m ²)
Membrane Type	Thin-Film Composite
Feed Spacer Thickness	34 mil
Element Configuration	Spiral-Wound, FRP Wrapping

Test Conditions: 2,000 mg/L MgSO₄ solution at 75 psig (0.52 MPa) applied pressure; 15% recovery; 77°F (25°C); pH 6.5–7.0; Permeate flow rate for each element may vary +25 / -25%.

Dimensions and Weight

Model Name	A	B	C	Weight	Part Number	
					Inter-Connector	Brine Seal
NE8040-40 HP1	40.0 inch (1,016 mm)	7.9 inch (200 mm)	1.125 inch (28.6 mm)	15kg	SWA01049	SWA01043



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

Toray Advanced Materials Korea Inc.

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Product Specification Sheet / Model NE8040-40 HP1

V.2.0 (26)

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APPLICATION DATA

Operating Limits

Max. Pressure Drop / Element	15 psi (0.10 MPa)
Max. Pressure Drop / 240" Vessel	60 psi (0.41 MPa)
Max. Operating Pressure / 25 °C	800 psi (5.52 MPa)
Max. Feed Flow Rate	75 gpm (17.0 m ³ /hr)
Min. Concentrate Flow Rate	16 gpm (3.6 m ³ /hr)
Max. Operating Temperature	113°F (45°C)
Operating pH Range	3.0 – 10.0
CIP pH Range	2.0 – 11.0
Max. Turbidity	1.0 NTU
Max. SDI (15 min)	5.0
Max. Chlorine Concentration	< 0.1 mg/L

Please contact your technical expert for pressure limits at elevated temperatures.

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. Please refer to the user manual for further details.
- During initial operation, it is necessary to operate continuously for a minimum of 1 hour at the designed permeate flow rate, and the permeate should be discarded.
- Keep elements moist at all times after initial wetting.
- Salt rejection would be stabilized within 48 hours of continuous operation depending on feedwater and operating conditions, but may take over a week for dry elements.
- 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.
- The element shell is FRP(Fiber Reinforced Plastic). Be aware of glass fiber strands and use safety equipment.

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