

# NE8040-70 HP1

**CSM**<sup>®</sup>

High Pressure NF Membrane

- High COD rejection
- Moderate rejection of monovalent ion
- Safe operation up to 50 bar



Food



Industrial



Water Reuse

## SPECIFICATIONS •

### General Features

Permeate Flow Rate	7,500 GPD (28.4 m <sup>3</sup> /day)
MgSO <sub>4</sub> Rejection	99.0% (Minimum 98.0%)
NaCl Rejection	30 – 70%
Effective Membrane Area	370 ft <sup>2</sup> (34.4 m <sup>2</sup> )
Membrane Type	Thin-Film Composite
Membrane Material	Polyamide (PA)
Element Configuration	Spiral-Wound, FRP Wrapping

**Test Conditions:** 2,000 mg/L MgSO<sub>4</sub> or NaCl 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
NE8040-70 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.**

For more information on our products, company and regional contacts, please visit our website at [www.csmfilter.com](http://www.csmfilter.com).  
Product Specification Sheet / Model NE8040-70 HP1

V.2.0 (26)

## APPLICATION DATA

### Operating Limits

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