

NE4040-40

High productivity NF element with low monovalent ion rejection

CSM[®]

- High Mono/Multivalent Ion Selectivity
- High Hardness Rejection
- Low Energy Consumption



Food



Municipal



Water Reuse

SPECIFICATIONS

General Features

| | |
|-----------------------------------|--|
| Permeate Flow Rate | 2,500 GPD (9.5 m ³ /day) |
| MgSO₄ Rejection | 99.0% (Minimum 98.0%) |
| NaCl Rejection | 20 – 40% |
| Effective Membrane Area | 85 ft ² (7.9 m ²) |
| Membrane Type | Thin-Film Composite |
| Membrane Material | Polyamide (PA) |
| Element Configuration | Spiral-Wound, FRP Wrapping |

Test Conditions: 2,000 mg/L MgSO₄ 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 | D/E | Part Number | |
|------------|-------------------------|-----------------------|------------------------|------------------------|-----------------|------------|
| | | | | | Inter-Connector | Brine Seal |
| NE4040-40 | 40.0 inch (1,016 mm) | 3.9 inch (99.0 mm) | 0.75 inch (19.1 mm) | 1.05 inch (26.7 mm) | SWA01050 | SWA01046 |



1. Each membrane element supplied with one interconnector (coupler) and four O-rings.
2. All NE4040 elements fit nominal 4.0 inch (101.6 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.
Product Specification Sheet / Model NE4040-40

V.2.0 (22)

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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 | 600 psi (4.14 MPa) |
| Max. Feed Flow Rate | 18 gpm (4.09 m ³ /hr) |
| Min. Concentrate Flow Rate | 4 gpm (0.91 m ³ /hr) |
| Max. Operating Temperature | 113°F (45°C) |
| Operating pH Range | 3.0 – 10.0 |
| CIP pH Range | 1.0 – 11.5 |
| Max. Turbidity | 1.0 NTU |
| Max. SDI (15 min) | 5.0 |
| Max. Chlorine Concentration | < 0.05 mg/L |

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.
- Stabilized salt rejection is generally achieved within 1~48 hours of continuous use.
- 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.
- The element shell is FRP(Fiber Reinforced Plastic). Be aware of glass fiber strands and use safety equipment.



Certified to
NSF/ANSI/CAN 61

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