NE8040-SRM 440

CSM[®]

Special NF element to remove sulfate ions in seawater

- High Sulfate Rejection
- Moderate Rejection of Hardness

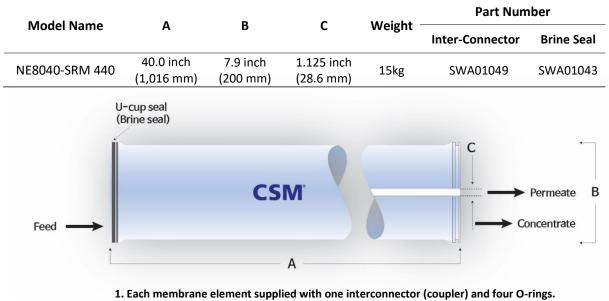


SPECIFICATIONS -

| General Features | |
|-----------------------------|--|
| Permeate Flow Rate | 9,400 GPD (35.6 m ³ /day) |
| MgSO ₄ Rejection | 99.5% (Minimum 99.0%) |
| Effective Membrane Area | 440 ft ² (40.9 m ²) |
| Membrane Type | Thin-Film Composite |
| Membrane Material | Polyamide (PA) |
| Element Configuration | Spiral-Wound, FRP Wrapping |

Test Conditions: 2,000 mg/L MgSO₄ 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



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 <u>www.csmfilter.com</u>. Product Specification Sheet / Model NE8040-SRM 440

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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 | 75 gpm (17.0 m³/hr) |
| Min. Concentrate Flow Rate | 16 gpm (3.6 m³/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 |

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.
- 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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