NE8040-SRM



Special NF element to remove sulfate ions in seawater

- High Sulfate Rejection
- Moderate Rejection of Hardness







SPECIFICATIONS •

General Features

Permeate Flow Rate 8,500 GPD (32.2 m³/day)

MgSO₄ Rejection 99.5% (Minimum 99.0%)

Effective Membrane Area 400 ft² (37.2 m²)

Membrane Type Thin-Film Composite

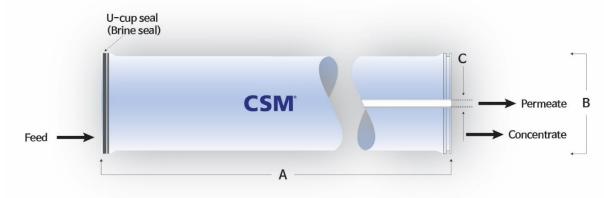
Membrane Material Polyamide (PA)

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

| Model Name | Α | В | С | Weight - | Part Number | |
|------------|-------------------------|----------------------|-------------------------|----------|-----------------|------------|
| | | | | | Inter-Connector | Brine Seal |
| NE8040-SRM | 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.

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APPLICATION DATA •

Operating Limits

| Max. Pressure Drop / Element15 psi (0.10 MPa)Max. Pressure Drop / 240" Vessel60 psi (0.41 MPa)Max. Operating Pressure600 psi (4.14 MPa)Max. Feed Flow Rate75 gpm (17.0 m³/hr)Min. Concentrate Flow Rate16 gpm (3.6 m³/hr)Max. Operating Temperature113°F (45°C)Operating pH Range3.0 – 10.0CIP pH Range2.0 – 11.0Max. Turbidity1.0 NTUMax. SDI (15 min)5.0Max. Chlorine Concentration< 0.1 mg/L | | |
|---|----------------------------------|---------------------|
| Max. Operating Pressure600 psi (4.14 MPa)Max. Feed Flow Rate75 gpm (17.0 m³/hr)Min. Concentrate Flow Rate16 gpm (3.6 m³/hr)Max. Operating Temperature113°F (45°C)Operating pH Range3.0 – 10.0CIP pH Range2.0 – 11.0Max. Turbidity1.0 NTUMax. SDI (15 min)5.0 | Max. Pressure Drop / Element | 15 psi (0.10 MPa) |
| Max. Feed Flow Rate75 gpm (17.0 m³/hr)Min. Concentrate Flow Rate16 gpm (3.6 m³/hr)Max. Operating Temperature113°F (45°C)Operating pH Range3.0 – 10.0CIP pH Range2.0 – 11.0Max. Turbidity1.0 NTUMax. SDI (15 min)5.0 | Max. Pressure Drop / 240" Vessel | 60 psi (0.41 MPa) |
| Min. Concentrate Flow Rate16 gpm (3.6 m³/hr)Max. Operating Temperature113°F (45°C)Operating pH Range3.0 – 10.0CIP pH Range2.0 – 11.0Max. Turbidity1.0 NTUMax. SDI (15 min)5.0 | Max. Operating Pressure | 600 psi (4.14 MPa) |
| Max. Operating Temperature113°F (45°C)Operating pH Range3.0 – 10.0CIP pH Range2.0 – 11.0Max. Turbidity1.0 NTUMax. SDI (15 min)5.0 | Max. Feed Flow Rate | 75 gpm (17.0 m³/hr) |
| 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 | Min. Concentrate Flow Rate | 16 gpm (3.6 m³/hr) |
| CIP pH Range 2.0 – 11.0 Max. Turbidity 1.0 NTU Max. SDI (15 min) 5.0 | Max. Operating Temperature | 113°F (45°C) |
| Max. Turbidity 1.0 NTU Max. SDI (15 min) 5.0 | Operating pH Range | 3.0 – 10.0 |
| Max. SDI (15 min) 5.0 | CIP pH Range | 2.0 – 11.0 |
| | Max. Turbidity | 1.0 NTU |
| Max. Chlorine Concentration < 0.1 mg/L | 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.
- 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.