

RE2540-BLF

Ultra-low pressure grade RO element for low TDS water

CSM[®]

- Ultra-Low-Energy Consumption



Industrial



Municipal

SPECIFICATIONS

General Features

| | |
|-------------------------|---|
| Permeate Flow Rate | 930 GPD (3.5 m ³ /day) |
| Nominal Salt Rejection | 99.2% (Minimum 99.0%) |
| Effective Membrane Area | 27ft ² (2.5 m ²) |
| Membrane Type | Thin-Film Composite |
| Membrane Material | Polyamide (PA) |
| Element Configuration | Spiral-Wound, FRP Wrapping |

Test Conditions: 500 mg/L NaCl solution at 100 psig (0.69 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 |
| RE2540-BLF | 40.0 inch (1,016 mm) | 2.4 inch (60.8 mm) | 0.75 inch (19.1 mm) | 1.05 inch (26.7 mm) | SWA01050 | SWA01047 |



1. Each membrane element supplied with one interconnector (coupler) and four O-rings.
2. All RE2540 elements fit nominal 2.5 inch (63.5 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 RE2540-BLF



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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 | 6 gpm (1.36 m ³ /hr) |
| Min. Concentrate Flow Rate | 1 gpm (0.23 m ³ /hr) |
| Max. Operating Temperature | 113°F (45°C) |
| Operating pH Range | 2.0 – 11.0 |
| CIP pH Range | 1.0 – 13.0 |
| 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.
- For WET-TYPE, the preservative solution (1% sodium metabisulfite solution) is added to prohibit the growth of micro-organisms.
- Permeate from the first hour of operation should be discarded.
- 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.
- 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.

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