

# RE8040-FLF440

# CSM<sup>®</sup>

Ultra Fouling resistant RO element with low pressure for brackish water and wastewater reuse

- Fouling resistant
- Energy Saving
- High Permeate Flow and High Rejection
- Extended effective membrane area



Industrial



Municipal



Water Reuse

## SPECIFICATIONS

### General Features

|                         |                                            |
|-------------------------|--------------------------------------------|
| Permeate Flow Rate      | 13,000 GPD (49.2 m <sup>3</sup> /day)      |
| Nominal Salt Rejection  | 99.6% (Minimum 99.5%)                      |
| Effective Membrane Area | 440 ft <sup>2</sup> (40.9 m <sup>2</sup> ) |
| Membrane Type           | Thin-Film Composite                        |
| Membrane Material       | Polyamide (PA)                             |
| Element Configuration   | Spiral-Wound, FRP Wrapping                 |

**Test Conditions:** 1,500 mg/L NaCl solution at 150 psig (1.03 MPa) applied pressure; 15% recovery; 77°F (25°C); pH 6.5–7.0; Permeate flow rate for each element may vary +25 / -15%.

### Dimensions and Weight

| Model Name    | A                       | B                    | C                       | Weight | Part Number     |            |
|---------------|-------------------------|----------------------|-------------------------|--------|-----------------|------------|
|               |                         |                      |                         |        | Inter-Connector | Brine Seal |
| RE8040-FLF440 | 40.0 inch<br>(1,016 mm) | 7.9 inch<br>(200 mm) | 1.125 inch<br>(28.6 mm) | 15kg   | SWA01049        | SWA01043   |



1. Each membrane element supplied with one interconnector (coupler) and four O-rings.
2. All RE8040 elements fit nominal 8.0 inch (203.2 mm) I.D. pressure vessels.

**Toray Advanced Materials Korea Inc.**

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Product Specification Sheet / Model RE8040-FLF440

V.2.4 (23)

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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 m <sup>3</sup> /hr) |
| Min. Concentrate Flow Rate       | 16 gpm (3.6 m <sup>3</sup> /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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