

# RE4040-FLR

**LENNTECH**  
WATER TREATMENT SOLUTIONS

**CSM**<sup>®</sup>

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

- Fouling resistant
- Low Energy Consumption
- High Permeate Flow and High Rejection



Municipal



Water Reuse

## SPECIFICATIONS

### General Features

|                         |                                         |
|-------------------------|-----------------------------------------|
| Permeate Flow Rate      | 2,100 GPD (7.9 m <sup>3</sup> /day)     |
| Nominal Salt Rejection  | 99.6% (Minimum 99.5%)                   |
| Effective Membrane Area | 85ft <sup>2</sup> (7.9 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 but will be no more than -5 %.

### Dimensions and Weight

| Model Name | A                       | B                     | C                      | D/E                    | Part Number     |            |
|------------|-------------------------|-----------------------|------------------------|------------------------|-----------------|------------|
|            |                         |                       |                        |                        | Inter-Connector | Brine Seal |
| RE4040-FLR | 40.0 inch<br>(1,016 mm) | 3.9 inch<br>(99.0 mm) | 0.75 inch<br>(19.1 mm) | 1.05 inch<br>(26.7 mm) | SWA01050        | SWA01046   |

1. Each membrane element supplied with one interconnector (coupler) and four O-rings.
2. All RE4040 elements fit nominal 4.0 inch (101.6 mm) I.D. pressure vessels.

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## APPLICATION DATA

### Operating Limits

|                                         |                                  |
|-----------------------------------------|----------------------------------|
| <b>Max. Pressure Drop / Element</b>     | 15 psi (0.10 MPa)                |
| <b>Max. Pressure Drop / 240" Vessel</b> | 60 psi (0.41 MPa)                |
| <b>Max. Operating Pressure</b>          | 600 psi (4.14 MPa)               |
| <b>Max. Feed Flow Rate</b>              | 18 gpm (4.09 m <sup>3</sup> /hr) |
| <b>Min. Concentrate Flow Rate</b>       | 4 gpm (0.91 m <sup>3</sup> /hr)  |
| <b>Max. Operating Temperature</b>       | 113°F (45°C)                     |
| <b>Operating pH Range</b>               | 2.0 – 11.0                       |
| <b>CIP pH Range</b>                     | 1.0 – 13.0                       |
| <b>Max. Turbidity</b>                   | 1.0 NTU                          |
| <b>Max. SDI (15 min)</b>                | 5.0                              |
| <b>Max. Chlorine Concentration</b>      | < 0.1 mg/L                       |

■ 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.

■ 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.



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