

RE4040-FEn

CSM®

Enhanced fouling resistant RO element for brackish water and wastewater reuse

- Fouling resistant
- High Permeate Flow and High Rejection
- Robustness and High Durability in a wide pH



Industrial



Municipal



Water Reuse

SPECIFICATIONS

General Features

Permeate Flow Rate	2,400 GPD (9.1 m ³ /day)
Nominal Salt Rejection	99.7% (Minimum 99.4%)
Effective Membrane Area	85ft ² (7.9 m ²)
Membrane Type	Thin-Film Composite
Membrane Material	Polyamide (PA)
Element Configuration	Spiral-Wound, FRP Wrapping

Test Conditions: 2,000 mg/L NaCl solution at 225 psig (1.55 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 +25 / -15%.

Dimensions and Weight

Model Name	A	B	C	D/E	Part Number	
					Inter-Connector	Brine Seal
RE4040-FEn	40.0 inch (1,016 mm)	3.9 inch (99.0 mm)	0.75 inch (19.1 mm)	1.05 inch (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.

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 RE4040-FEn

V.2.4 (23)

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	18 gpm (4.09 m ³ /hr)
Min. Concentrate Flow Rate	4 gpm (0.91 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.