

# SE series

## industrial high rejection brackish water RO elements

The S-Series family of proprietary thin-film reverse osmosis membrane elements is characterized by high sodium chloride rejection and a smooth, fouling-resistant membrane surface.

SE High Rejection Brackish Water Elements are used for brackish water desalination and process stream concentration.

The SE elements feature either a fiberglass or a patented Durasan\* cage outer wrap, 30mil or 50 mil spacers and polysulfone or Noryl plastic parts.

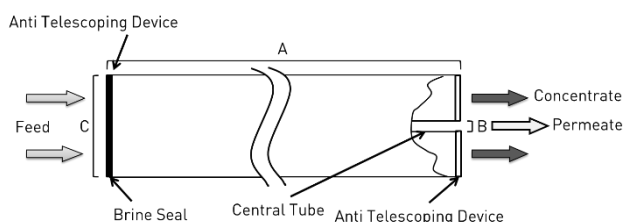
**Table 1: Element Specification**

Membrane S-Series, Thin-Film Membrane (TFM*)			
Model	Average permeate flow gpd (m <sup>3</sup> /day) (1,2)	Average NaCl rejection (1,2)	Minimum NaCl rejection (1,2)
SE2540F30	550 (2.1)	99%	97.5%
SE2540F50	370 (1.4)	99%	97.5%
SE8040C30	8,500 (32.2)	99%	97.5%

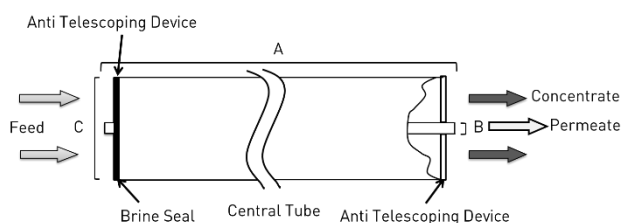
(1) Average salt rejection after 24 hours operation. Individual flow rate may vary ±25%.

(2) Testing conditions: 2,000ppm NaCl solution at 425psi (2,930kPa) operating pressure, 77°F (25°C), pH6.5 and 15% recovery.

Model	Spacer mil (mm)	Active area ft <sup>2</sup> (m <sup>2</sup> )	Outer wrap	Part number
SE2540F30	30 (0.76)	28 (2.6)	Fiberglass	1207431
SE2540F50	50 (1.27)	22 (2.0)	Fiberglass	1207427
SE8040C30	30 (0.76)	374 (34.7)	Cage	1207488



**Figure 1 : Element Dimensions Diagram (Female)**



**Figure 2 : Element Dimensions Diagram (Male)**

**Table 2: Dimensions and Weight**

Model	Fig.	Dimensions, inches (cm)			Boxed Weight lbs (kg)
		A	B	C	
SE2540F**	2	40.0 (101.6)	0.75 (1.9)	2.4 (6.1)	4 (1.8)
SE8040C**	1	40.0 (101.6)	1.125 (2.86)	7.9 (20.1)	35 (15.9)

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**Table 3: Operating and CIP Parameters**

<b>Typical Operating Flux</b>	5-20 GFD (8-34 LMH)
<b>Maximum Operating Pressure</b>	600psi (4,137kPa) if T < 95°F (35°C) 435psi (3,000kPa) if T > 95°F (35°C)
<b>Maximum Temperature</b>	Continuous Operation: 122°F (50°C) Clean-In-Place (CIP): 122°F (50°C)
<b>pH Range</b>	Optimum rejection Range: 5.5-7.0 Continuous Operation: 2.0-10.0 Clean-In-Place (CIP): 1.0-11.5 (1)
<b>Maxime Pressure Drop</b>	Over an element: 15psi (103kPa) Per housing: 60psi (414kPa)
<b>Chlorine Tolerance</b>	500+ ppm-hours, dechlorination recommended
<b>Feed water</b>	NTU < 1 SDI <sub>15</sub> < 5

(1) Refer to Cleaning Guidelines Technical Bulletin TB1194.