SE Series

FACT SHEET

Industrial High Rejection Brackish Water Reverse Osmosis (RO) Spiral Wound Membranes

The SE Series of reverse osmosis (RO) spiral wound membranes is characterized by high sodium chloride rejection and a smooth, fouling-resistant membrane surface.

SE Series high rejection brackish water spiral wound membranes are used for brackish water desalination and process stream concentration.

The SE Series spiral wound membranes feature either a fiberglass or a cage outerwrap, 30mil or 50 mil spacers and polysulfone or Noryl plastic parts.

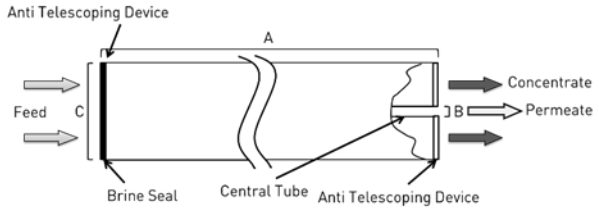

Figure 1: Dimensions Diagram for 8040 Model

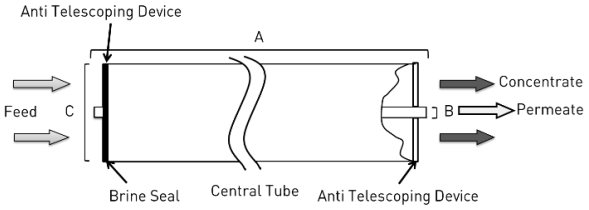

Figure 2: Dimensions Diagram for 2540 Models

Table 1: Specification

Membrane	SE Series, Thin-Film Membrane (TFM)

Model	Average Permeate Flow gpd (m^3/day) (1,3)	Average NaCl Rejection (2,3)	Minimum NaCl Rejection (2,3)
SE2540F30	550 (2.1)	99%	97.5%
SE2540F50	370 (1.4)	99%	97.5%
SE8040C30	8,500 (32.2)	99%	97.5%

(1) Individual flow rate may vary ±25%.

(2) Stabilized salt rejection after 24 hours operation.

(3) Testing conditions: 2,000 ppm NaCl solution at 425 psi (2,930 kPa) operating pressure, 77°F (25°C), pH 6.5 and 15% recovery.

Table 2: Properties (4)

Model	Feed Spacer mil (mm)	Active Area ft^2 (m^2)	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

Table 3: Dimensions and Weight (4)

Model		Dimensions, inches (cm)			Boxed
	Figure	A	B	C	Weight lbs (kg)
SE2540Fxx	2	40.0 (101.6)	0.75 (1.9)	2.4 (6.1)	4 (1.8)
SE8040Cxx	1	40.0 (101.6)	1.125 (2.86)	7.9 (20.1)	35 (15.9)

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Table 4: Operating and CIP Parameters (4)

Typical Operating Flux	5 - 20 GFD (8 - 34 LMH)
Maximum Operating Pressure	600 psi (4,137 kPa) if T < 95°F (35°C) 435 psi (3,000 kPa) if T > 95°F (35°C)
Maximum Temperature	Continuous operation: 122°F (50°C) Clean-In-Place (CIP): 122°F (50°C)
pH Range	Optimum rejection range: 5.5 - 7.0 Continuous operation: 2.0 - 11.0 Clean-In-Place (CIP): 1.0 - 11.5 (5)
Maxime Pressure Drop	Over an element: 15 psi (103 kPa) Per housing: 60 psi (414 kPa)
Chlorine Tolerance	500+ ppm-hours, dechlorination recommended
Feed water	NTU < 1 SDI_{15} < 5

(4) Spiral wound membrane properties and parameters are indicative numbers. Specific values by spiral wound membrane may vary within normal manufacturing tolerances.

(5) Refer to Cleaning Guidelines Technical Bulletin TB1194.

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