CE Series

FACT SHEET

Brackish Water Reverse Osmosis (RO) Spiral Wound Membranes (Cellulose Acetate)

The CE Series of reverse osmosis (RO) spiral wound membranes has a higher flux and better mechanical stability than standard cellulose acetate. CE Series spiral wound membranes offer an increased chlorine resistance compared to polyamide thin-film membranes.

The CE Series is used for brackish water desalination and process stream concentration and have NSF/ANSI/CAN 61 certification.

Table 1: Specification

Membrane	CE Series, Cellulose Acetate

Model	Average Permeate Flow gpd (m^3/day) (1,3)	Average NaCl Rejection (2,3)	Minimum NaCl Rejection (2,3)
CE8040F	7,000 (26.5)	97.5%	95.0%

(1) Average salt rejection after 24 hours of operation. Individual flow rate may vary with a minimum of 5,600 gpd (21.2 m^3/day).

(2) Stabilized salt rejection after 24 hours of operations

(3) Testing conditions: 2,000ppm NaCl solution at 420 psi (2,900 kPa) operating pressure, 77°F (25°C), pH 5.5 and 15% recovery.

Table 2: Properties (4)

Model	Active Area ft^2 (m^2)	Outer Wrap	Feed Spacer mil(mm)	Part Number
CE8040F	350 (32.5)	Fiberglass	34 (0.86)	3097264

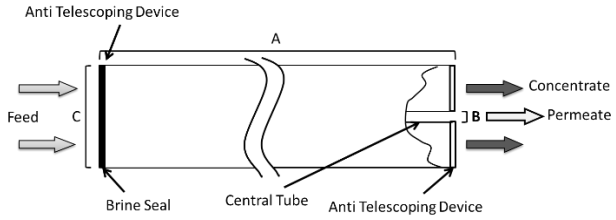

Figure 1: Dimensions Diagram

Table 3: Dimensions and Weights (4)

Model	Figure	Dimensions, inches (cm)			Boxed Weight lbs (kg)
		A	B	C	
CE8040F	1	40.0 (101.6)	1.125 (2.86)	7.9 (20.1)	36 (16.3)

Table 4: Operating and CIP Parameters (4)

Typical Operating Pressure	140 - 400 psi (965-2,758kPa)
Typical Operating Flux	10 - 18 GFD (17-30 LMH)
Maximum Operating Pressure	600 psi (4,137 kPa)
Maximum Temperature	Continuous operation: 90°F (32°C) Clean-In-Place (CIP): 90°F (32°C)
pH Range	Continuous operation: 5.0-6.5, Clean-In-Place (CIP): 3.0-8.0 (5)
Maximum Pressure Drop	Over an element: 15 psi (103 kPa) Per housing: 60 psi (413 kPa)
Chlorine Tolerance	0.5 ppm nominal, 1.0 ppm max
Feedwater	NTU < 1 SDI_{15} < 5

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

(5) Please refer to Cleaning Guidelines Technical Bulletin TB1194.

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Consultas y ventas: AQUAREP · www.aquarep.com.ar · info@aquarep.com.ar · WhatsApp +54 9 11 6091-0087