CE Series

FACT SHEET

Brackish Water RO Elements (Cellulose Acetate)

The C-Series family has a higher flux and better mechanical stability than standard cellulose acetate. C-Series elements offer an increased chlorine resistance compared to polyamide thin-film elements.

CE Brackish Water Elements are used for brackish water desalination and process stream concentration and have NSF/ANSI/CAN 61 certification.

Table 1: Element Specification

Membrane	C-Series, Cellulose Acetate

Model	Average Permeate Flow gpd (m^3/Day) (1,2)	Average NaCl Rejection (1,2)	Minimum NaCl Rejection (1,2)
CE8040F	7,000 (26.5)	98.0 %	97.0%

(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) 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: Element Properties (3)

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

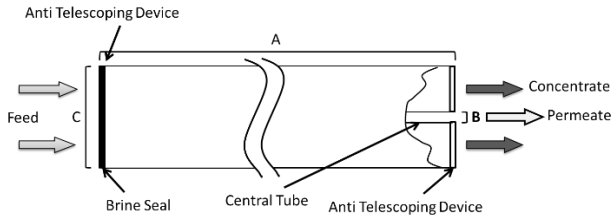

Figure 1 : Element Dimensions Diagram – Female

Table 3: Dimensions and Weight (3)

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

Table 4: Operating and CIP Parameters (3)

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: 86°F (30°C) Clean-In-Place (CIP): 86°F (30°C)
pH Range	Continuous operation: 5.0-6.5, Clean-In-Place (CIP): 3.0-8.0 (4)
Maximum Pressure Drop	Over an element: 15 psi (103 kPa) Per housing: 50 psi (345 kPa)
Chlorine Tolerance	0.5 ppm nominal, 1.0 ppm max
Feedwater	NTU < 1 SDI_{15} < 5

(3) Element properties and parameters are indicative numbers. Specific values by element may vary within normal element manufacturing tolerances.

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

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