

CE series

brackish water RO elements (cellulose acetate)

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

CE Brackish Water Elements are used for brackish water desalination and process stream concentration.

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)
CE4026F	1,350 [5.1]	97.5 %	95.0 %
CE4040FM	2,000 [7.6]	97.5 %	95.0 %
CE8040F	6,700 [25.4]	97.5 %	95.0 %
CE8040F, WET	6,700 [25.4]	97.5 %	95.0 %

(1) Average salt rejection after 24 hours of operation. Individual flow rate may vary $\pm 20\%$.

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

Model	Active area ft ² (m ²)	Outer wrap	Part number
CE4026F	60 [5.5]	Fiberglass	1206875
CE4040FM	90 [8.4]	Fiberglass	3050079
CE8040F	350 [32.5]	Fiberglass	1206880
CE8040F, WET	350 [32.5]	Fiberglass	3097264

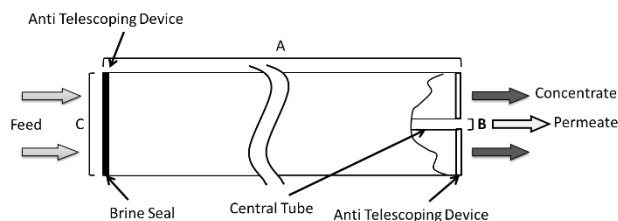


Figure 1 : Element Dimensions Diagram – Female

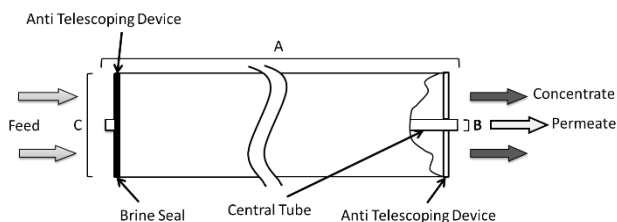


Figure 2: Element Dimensions Diagram – Male

Table 2: Dimensions and Weight

Model	Type	Dimensions, inches (cm)			Boxed Weight lbs. (kg)
		A	B	C	
CE4026F	Female	26.0 (66.7)	0.625 (1.59)	3.9 (9.9)	6 (2.7)
CE4040FM	Male	40.0 (101.6)	0.75 (1.90)	3.9 (9.9)	8 (3.5)
CE8040F	Female	40.0 (101.6)	1.125 (2.86)	7.9 (20.1)	32 (14.5)
CE8040F, WET	Female	40.0 (101.6)	1.125 (2.86)	7.9 (20.1)	34 (15.5)

Table 3: Operating and CIP parameters

Typical Operating Pressure	140 - 400psi (965-2,758kPa)
Typical Operating Flux	10-18 GFD (17-30 LMH)
Maximum Operating Pressure	450psi (3,103kPa)
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 (1)
Maximum Pressure Drop	Over an element: 12psi (83kPa) Per housing: 50psi (345kPa)
Chlorine Tolerance	1ppm maximum continuous 30ppm for 30 min during sanitization
Feedwater	NTU < 1 SDI ₁₅ < 5

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

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