

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. CA-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 ±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

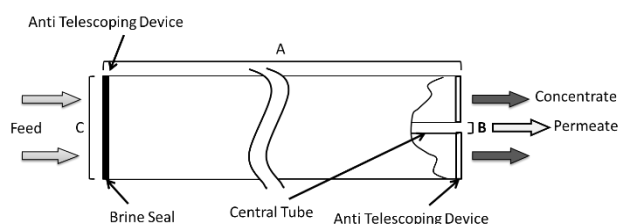


Figure 1 : Element Dimensions Diagram – Female

Water Technologies & Solutions fact sheet

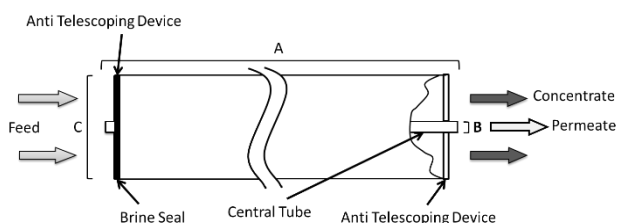


Figure 2: Element Dimensions Diagram – Male

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)	35 (16)

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 ²	NTU < 1 SDI < 5

¹ Please refer to Cleaning Guidelines Technical Bulletin TB1194.

² SDI is measured on a non-linear scale using a 0.45-micron filter paper. Additionally, finer colloids, particulates and microorganisms that pass through the filter paper and not measured in the SDI test, will potentially foul the RO element. For performance consistency and project warranty, please use Winflows projection software and consult your SUEZ representative.