

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 (m3/day) ^{1,2}	Average NaCl rejection ^{1,2}	Minimum NaCl rejection ^{1,2}
CE4026F	1,300 (4.9)	97.5 %	95.0 %
CE4040FM	2,100 (7.9)	97.5 %	95.0 %
CE8040F	8,000 (30.3)	97.5 %	95.0 %

¹ Average salt rejection after 24 hours operation. Individual flow rate may vary +25%/-15%.

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

Model	Active area ft ² (m ²)	Outer wrap	Part number
CE4026F	59 (5.5)	Fiberglass	1206875
CE4040FM	95 (8.4)	Fiberglass	3050079
CE8040F	350 (32.5)	Fiberglass	1206880

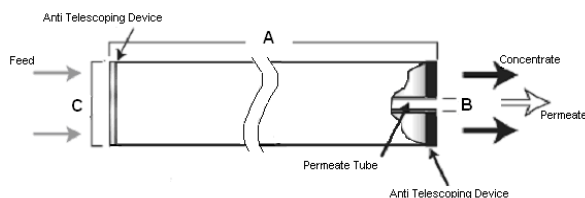


Figure 1: Element Dimensions Diagram – Female

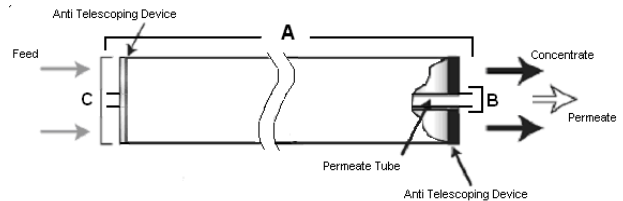


Figure 2: Element Dimensions Diagram – Male

Table 2: Dimensions and Weight

Model ¹	Dimensions, inches (cm)			Boxed Weight lbs (kg)
	A	B ²	C ³	
CE4026F	26.0 (66.7)	0.625 (1.59)	3.9 (9.9)	6 (2.7)
CE4040FM	40.0 (101.6)	0.75 (1.90) OD	3.9 (9.9)	8 (3.5)
CE8040F	40.0 (101.6)	1.125 (2.86)	7.9 (20.1)	32 (14.5)

¹ These elements are dried then bagged before shipping.

² Internal diameter unless specified OD (outside diameter).

³ The element diameter (dimension C) is designed for optimum performance in GE pressure vessels. Other pressure vessel dimension and tolerance may result in excessive bypass and loss of capacity.

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
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 < 5



Find a contact near you by visiting www.gewater.com and clicking on "Contact Us".
* Trademark of General Electric Company; may be registered in one or more countries.

©2013, General Electric Company. All rights reserved.