GE Power & Water
Water & Process Technologies

Fact Sheet

CE Series

Brackish Water RO Elements (Cellulose Acetate)

DESAL® MEMBRANE PRODUCTS

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]
CE2540FM	630 (2.4)	97.5 %	95.0 %
CE4025T	1,300 (4.9)	97.5 %	95.0 %
CE4026F	1,300 (4.9)	97.5 %	95.0 %
CE4040F, Stinger	2,100 (7.9)	97.5 %	95.0 %
CE4040FM	2,000 (7.6)	97.5 %	95.0 %
CE4040C	2,200 (8.3)	97.5 %	95.0 %
CE4040NM	2,000 (7.6)	97.0 %	95.0 %
CE8040F	8,000 (30.3)	97.5 %	95.0 %
CE8040N	8,000 (30.3)	97.0 %	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, pH 6.5 and 15% recovery.

Model	Active area ft² (m²)	Outer wrap	Part number
CE2540FM	27 (2.5)	Fiberglass	1206854
CE4025T	59 (5.5)	Tape	1206870
CE4026F	59 (5.5)	Fiberglass	1206875
CE4040F, Stinger	95 (8.8)	Fiberglass	3050079
CE4040FM	85 (7.9)	Fiberglass	1231443
CE4040C	95 (8.8)	Cage	1206877
CE4040NM	85 (7.9)	Net	1231790
CE8040F	350 (32.5)	Fiberglass	1206880
CE8040N	350 (32.5)	Net	1231791

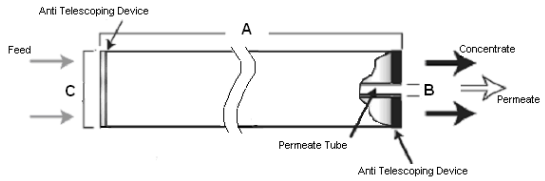

Figure 1: Element Dimensions Diagram – Female

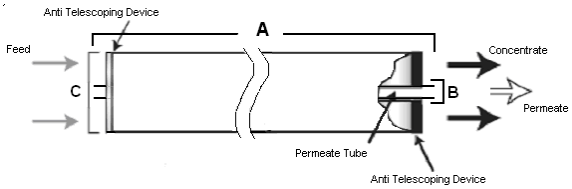

Figure 2: Element Dimensions Diagram – Male, Stinger

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Table 2: Dimensions and Weight

Model[1]	Dimensions, inches (cm)			Boxed
	A	B[2]	C[3]	Weight lbs (kg)
CE2540FM	40.0 (101.6)	0.75 (1.90) OD	2.4 (6.1)	5 (2.3)
CE4025T	25.0 (63.5)	0.625 (1.59)	3.9 (9.9)	5 (2.3)
CE4026F	26.0 (66.7)	0.625 (1.59)	3.9 (9.9)	6 (2.7)
CE4040F, Stinger	40.0 (101.6)	0.75 (1.9)	3.9 (9.9)	8 (3.5)
CE4040FM	40.0 (101.6)	0.75 (1.90) OD	3.9 (9.9)	8 (3.5)
CE4040C	40.0 (101.6)	0.625 (1.59)	3.9 (9.9)	8 (3.5)
CE4040NM	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)
CE8040N	40.0 (101.6)	1.125 (2.9)	7.9 (20.0)	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