

CG Series

High Flux 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.

CG High Flux 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}
CG2540FM	600 (2.3)	93.0%	85.0%
CG4040F	2,000 (7.6)	93.0%	85.0%
CG8040F	7,300 (27.6)	93.0%	85.0%

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

²Testing conditions: 500 ppm NaCl solution at 210 psi (1,448 kPa) operating pressure, 77°F, pH 6.5 and 15% recovery.

Model	Active area ft ² (m ²)	Outer wrap	Part number
CG2540FM	27 (2.5)	Fiberglass	1206891
CG4040F	90 (8.4)	Fiberglass	1206893
CG8040F	350 (32.5)	Fiberglass	1206896

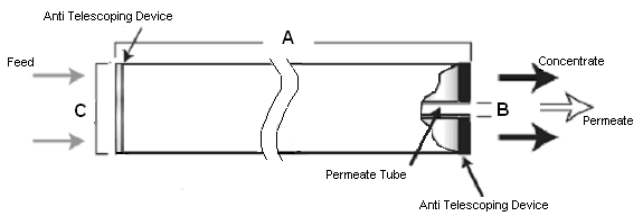


Figure 1: Element Dimensions Diagram - Female

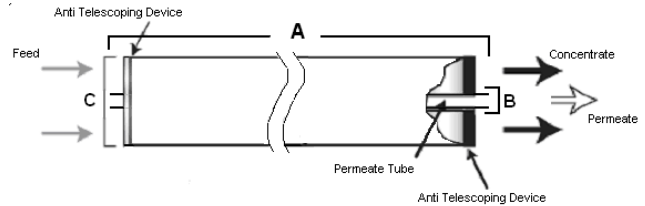


Figure 2: Element Dimensions Diagram - Male

Table 2: Dimensions and Weight

Model ²	Dimensions, inches (cm)			Boxed Weight lbs (kg)
	A	B ¹	C ³	
CG2540FM	40.0 (101.6)	0.75 (1.90) OD	2.4 (6.1)	5 (2.3)
CG4040F	40.0 (101.6)	0.625 (1.59)	3.9 (9.9)	8 (3.5)
CG8040F	40.0 (101.6)	1.125 (2.86)	7.9 (20.1)	32 (14.5)

¹Internal diameter unless specified OD (outside diameter).

²These elements are dried then bagged before shipping.

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

Table 3: Operating and CIP parameters

Typical Operating Pressure	60-200 psi (414-1,379 kPa)
Typical Operating Flux	10-18 GFD (17-30 LMH)
Maximum Operating Pressure	450 psi (3,103 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
Maximum Pressure Drop	Over an element: 12 psi (83 kPa) Per housing: 50 psi (345 kPa)
Chlorine Tolerance	1 ppm maximum continuous 30 ppm for 30 min. during sanitization
Feedwater	NTU < 1 SDI < 5

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