Fact Sheet

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 (m3/day) [1,2]	Average NaCl rejection[1,2]	Minimum NaCl rejection[1,2]
CG8040F	7,300 (27.6)	93.0%	85.0%

[1]Average salt rejection after 24 hours operation. Individual flow rate may vary +25%/-15%.
[2]Testing conditions: 500 ppm NaCl solution at 210 psi (1,448 kPa) operating pressure, 77°F, pH 6.5 and 15% recovery.

Model	Active area ft² (m²)	Outer wrap	Part number
CG8040F	350 (32.5)	Fiberglass	1206896

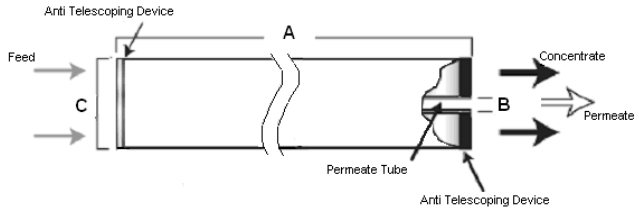

Figure 1: Element Dimensions Diagram - Female

Model[2]	Dimensions, inches (cm) A	B[1]	C[3]	Boxed Weight lbs (kg)
CG8040F	40.0 (101.6)	1.125 (2.86)	7.9 (20.1)	32 (14.5)

[1]Internal diameter unless specified OD (outside diameter).
[2]These elements are dried then bagged before shipping.
[3]The element diameter (dimension C) is designed for optimum performance in GE 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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