

CD Series

High Rejection 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.

CD High Rejection Elements are used for brackish water desalination and process stream.

Table 1: Element Specification

Membrane	C-Series, cellulose acetate
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Model	Average permeate flow gpd (m ³ /day) ^{1,2}	Average NaCl rejection ^{1,2}	Minimum NaCl rejection ^{1,2}
CD4025T	1,000 (3.8)	98.5%	96.5%
CD4040F	1,600 (6.1)	98.5%	96.5%
CD8040F	6,000 (22.7)	98.5%	96.5%

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 ft ² (m ²)	Outer wrap	Part number
CD4025T	55 (5.1)	Tape	1206834
CD4040F	90 (8.4)	Fiberglass	1206835
CD8040F	390 (36.2)	Fiberglass	1206837

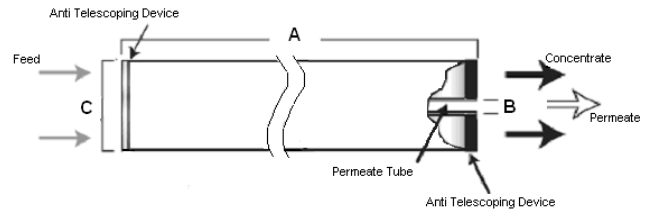


Figure 1: Element Dimensions Diagram - Female

Table 2: Dimensions and Weight

Model ²	Dimensions, inches (cm)			Boxed Weight lbs (kg)
	A	B ¹	C ³	
CD4025T	25.0 (63.5)	0.625 (1.59)	3.9 (9.9)	5 (2.3)
CD4040F	40.0 (101.6)	0.625 (1.59)	3.9 (9.9)	8 (3.5)
CD8040F	40.0 (101.6)	1.125 (2.86)	7.9 (20.1)	32 (14.5)

¹ Internal diameter.

² These elements are dried then bagged before shipping.

³ The 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	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

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