

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 a lower per element cost and increased chlorine resistance compared to thin-film elements.

CD High Rejection Elements are used for brackish water desalination and process stream concentration at 425 psig operating pressure (2,930 kPa).

Table 1: Element Specification

Membrane	C-Series, cellulose acetate		
Model	Flow average gpd (m ³ /day) ¹	Salt rejection average (NaCl) ^{1,2}	Salt rejection minimum (NaCl) ^{1,2}
CD4025T	1,025 (3.9)	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 425psig (2,930 kPa) 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

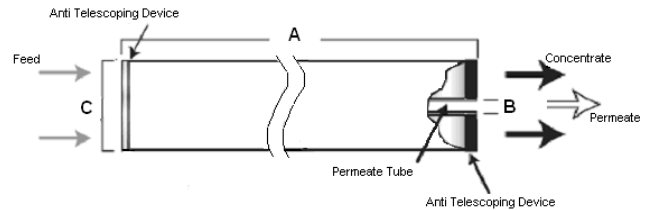


Figure 1: Element Dimensions Diagram - Female

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)

¹Internal diameter unless specified OD (outside diameter).

²These elements ship dry.

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 - 400 psig (965-2,758 kPa)
Typical Operating Flux	10-18 GFD (17-30 LMH)
Maximum Pressure	450 psig (3,103 kPa)
Maximum Temperature	Operating: 86°F (30°C) Cleaning: 86°F (30°C)
Recommended pH	Operating Range pH: 5.0-6.5, Cleaning Range pH: 3.0-8.0
Recommended Pressure Drop	Over an element: 12 psig (83 kPa) Per housing: 50 psig (345 kPa)
Chlorine Tolerance	1 ppm maximum continuous 30 ppm for 30 min. during sanitization
Feedwater	NTU < 1 SDI < 5



Find a contact near you by visiting ge.com/water or e-mailing custhelp@ge.com.

Global Headquarters
Trevose, PA
+1-215-355-3300

Americas
Watertown, MA
+1-617-926-2500

Europe/Middle East/Africa
Heverlee, Belgium
+32-16-40-20-00

Asia/Pacific
Shanghai, China
+86 (0) 411-8366-6489

©2007 General Electric Company. All rights reserved.

*Trademark of General Electric Company; may be registered in one or more countries.

FS1264EN Dec-07