

Water Technologies & Solutions fact sheet

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		
Model	Average permeate flow gpd (m3/day) ^{1,2}	Average NaCl rejection ^{1,2}	Minimum NaCl rejection ^{1,2}
CD4025T	1,050 (4.0)	98.5%	96.5%
CD8040F, WET	6,300 (23.8)	98.5%	96.5%

¹ Average salt rejection after 24 hours of operation.

Individual flow rate may vary ±20%.

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
CD4025T	55 (5.1)	Tape	1206834
CD8040F, WET	390 (36.2)	Fiberglass	3064330

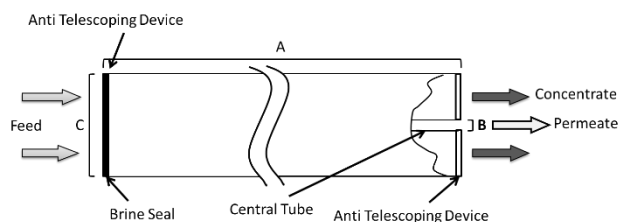


Figure 1: Element Dimensions Diagram - Female

Table 2: Dimensions and Weight

Model	Type	Dimensions, inches (cm)			Boxed Weight lbs. (kg)
		A	B	C	
CD4025T	Female	25.0 (63.5)	0.625 (1.59)	3.9 (9.9)	5 (2.3)
CD8040F, WET	Female	40.0 (101.6)	1.125 (2.86)	7.9 (20.1)	35 (16)

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 ¹
Maximum Pressure Drop	Over an element: 12psi (83kPa) Per housing: 50psi (345kPa)
Chlorine Tolerance	1ppm maximum continuous 30ppm for 30 min. during sanitization
Feedwater ²	NTU < 1 SDI < 5

¹ Please refer to Cleaning Guidelines Technical Bulletin TB1194.

² SDI is measured on a non-linear scale using a 0.45-micron filter paper. Additionally, finer colloids, particulates and microorganisms that pass through the filter paper and not measured in the SDI test, will potentially foul the RO element. For performance consistency and project warranty, please use Winflows projection software and consult your SUEZ representative.

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