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

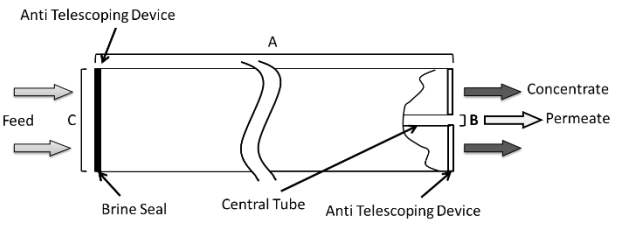

Figure 1: Element Dimensions Diagram - Female

Table 2: Dimensions and Weight

Model	Type	Dimensions, inches (cm) A	B	C	Boxed Weight lbs. (kg)
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_{15} < 5

(1) Please refer to Cleaning Guidelines Technical Bulletin TB1194.

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