

# CK series

## water softening NF 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.

CK Nanofiltration Elements are used for water softening, color removal, and reduction of THM potential when chlorine is required.

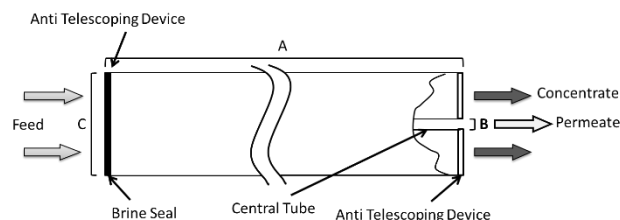
**Table 1: Element Specification**

Membrane	C- series, cellulose acetate		
Model	Average permeate flow gpd (m <sup>3</sup> /day) (1,2)	Average MgSO <sub>4</sub> rejection (1,2)	Minimum MgSO <sub>4</sub> rejection (1,2)
CK8040F	9,400 (35.6)	97.0%	94.0%

(1) Average salt rejection after 24 hours of operation. Individual flow rate may vary ±20%.

(2) Testing conditions: 2,000ppm MgSO<sub>4</sub> solution at 225psi (1,551kPa) operating pressure, 77°F, pH 6.5 and 15% recovery.

Model	Active area ft <sup>2</sup> (m <sup>2</sup> )	Outer wrap	Part number
CK8040F	365 (33.9)	Fiberglass	1233927



**Figure 1 : Element Dimensions Diagram - Female**

**Table 2: Dimensions and Weight**

Model	Type	Dimensions, inches (cm)			Boxed
		A	B	C	Weight lbs. (kg)
CK8040F	Female	40.0 (101.6)	1.125 (2.86)	7.9 (20.1)	35 (15.9)

**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 (1)
Maximum Pressure Drop	Over an element: 12 psi (83 kPa) Per housing: 50 psi (345 kPa)
Chlorine Tolerance	1ppm maximum continuous 30 ppm for 30 min. during sanitization
Feedwater (2)	NTU < 1 SDI <sub>15</sub> < 5

(1) Please refer to Cleaning Guidelines Technical Bulletin TB1194EN

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