

Water Technologies & Solutions fact sheet

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 ³ /day) ^{1,2}	Average MgSO ₄ rejection ^{1,2}	Minimum MgSO ₄ 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 MgSO₄ solution at 225psi (1,551kPa) operating pressure, 77°F, pH 6.5 and 15% recovery.

Model	Active area ft ² (m ²)	Outer wrap	Part number
CK8040F	365 [33.9]	Fiberglass	1233927

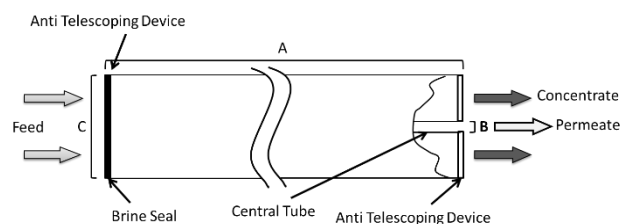


Figure 1 : Element Dimensions Diagram - Female

Table 2: Dimensions and Weight

Model	Type	Dimensions, inches (cm)			Boxed Weight lbs. (kg)
		A	B	C	
CK8040F	Female	40.0 [101.6]	1.125 [2.86]	7.9 [20.1]	32 [14.5]

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 < 5

¹Please refer to Cleaning Guidelines Technical Bulletin TB1194

²SDI 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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