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 (m3/day) [1,2] | Average $MgSO_4$ rejection [1,2] | Minimum $MgSO_4$ rejection [1,2] |
|---|---|---|---|
| CK8040F | 9,000 (34.1) | 97.0% | 94.0% |

[1] Average salt rejection after 24 hours operation. Individual flow rate may vary +25%/-15%.
[2] Testing conditions: 2,000ppm $MgSO_4$ 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 |

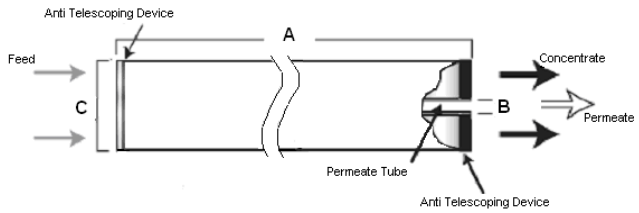


**Figure 1: Element Dimensions Diagram - Female**

### Table 2: Dimensions and Weight

| Model[2] | Dimensions, inches (cm) | | | Boxed |
|---|---|---|---|---|
| | A | B[1] | C[3] | Weight lbs (kg) |
| CK8040F | 40.0 (101.6) | 1.125 (2.86) | 7.9 (20.1) | 32 (14.5) |

[1] Internal diameter unless specified OD (outside diameter).
[2] These elements are dried then bagged before shipping.
[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 | 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)<br>Clean In Place (CIP): 86°F (30°C) |
| pH Range | Continuous operation: 5.0-6.5,<br>Clean In Place (CIP): 3.0-8.0 |
| Maximum Pressure Drop | Over an element: 12 psi (83 kPa)<br>Per housing: 50 psi (345 kPa) |
| Chlorine Tolerance | 1ppm maximum continuous<br>30ppm for 30 min. during sanitization |
| Feedwater | NTU < 1<br>SDI < 5 |

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