

Membrane Element CPA-4040E (Patented Low Fouling Technology)

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| Performance: | Permeate Flow: | 2,250 gpd (8.5 m ³ /d) |
| | Salt Rejection : | 99.5% (99.2% minimum) |
| | Feed Spacer: | 34 mil (0.864 mm) with biostatic agent |

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|-------------|-----------------------|---|
| Type | Configuration: | Spiral Wound |
| | Membrane Polymer: | Composite Polyamide |
| | Membrane Active Area: | 65 ft ² (6.04 m ²) |

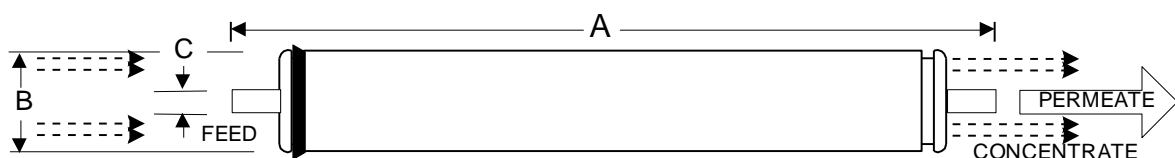
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| Application Data* | Maximum Applied Pressure: | 600 psig (4.14 MPa) |
| | Maximum Chlorine Concentration: | < 0.1 PPM |
| | Maximum Operating Temperature: | 113 °F (45 °C) |
| | pH Range, Continuous (Cleaning): | 2-10 (1-12)* |
| | Maximum Feedwater Turbidity: | 1.0 NTU |
| | Maximum Feedwater SDI (15 mins): | 5.0 |
| | Maximum Feed Flow: | 16 GPM (3.6 m ³ /h) |
| | Minimum Ratio of Concentrate to Permeate Flow for any Element: | 5:1 |
| | Maximum Pressure Drop for Each Element: | 15 psi |
| | Dry Element Temperature Storage | -40 °C to 40 °C (-40°F to 104°F) |
| | Wet Element Temperature Storage | 1 °C to 35 °C (33°F to 95°F) |

* The limitations shown here are for general use. For specific projects, operating at more conservative values may ensure the best performance and longest life of the membrane. See Hydranautics Technical Bulletins for more detail on operation limits, cleaning pH, and cleaning temperatures.

Test Conditions

The stated performance is based on the conditions below, after 30 minutes of stabilized operation. Hydranautics does not test every element, but randomly samples some elements to statistically ensure the product meets our stated specifications. Untested elements are shipped in a dry condition. Tested elements are preserved and shipped in 0.99% sodium meta-bisulfite. Shipment of product could include both types of elements.

1500 PPM NaCl solution
225 psi (1.55 MPa) Applied Pressure
77 °F (25 °C) Operating Temperature
15% Permeate Recovery
6.5 - 7.0 pH Range



| | | | |
|----------------|----------------|----------------|-------------------|
| A, inches (mm) | B, inches (mm) | C, inches (mm) | Weight, lbs. (kg) |
| 40.00 (1016) | 3.95 (100.3) | 0.75 (19.1) | 7 (3.2) |

Core tube extension = 1.05" (26.7 mm)

Notice: Permeate flow for individual elements may vary + 33 or - 15 percent. All membrane elements are supplied with a brine seal, interconnector, and o-rings. Elements are enclosed in a sealed polyethylene bag in a dry condition (no aqueous preservative), and then packaged in a cardboard box.

Hydranautics believes the information and data contained herein to be accurate and useful. The information and data are offered in good faith, but without guarantee, as conditions and methods of use of our products are beyond our control. Hydranautics assumes no liability for results obtained or damages incurred through the application of the presented information and data. It is the user's responsibility to determine the appropriateness of Hydranautics' products for the user's specific end uses. 3/06/15