NITTO DENKO

HYDRANAUTICS
A Nitto Denko Company

# Membrane Element CPA5-LD-4040

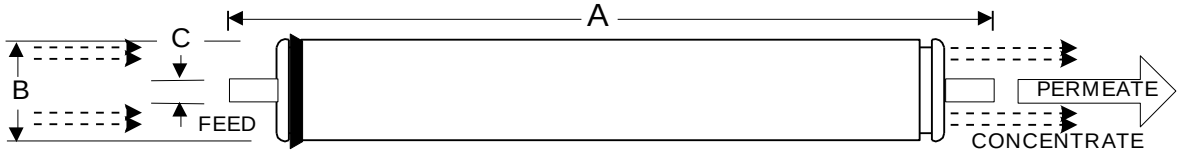
| | | |
|---|---|---|
| **Performance:** | Permeate Flow: | 2,100 gpd (7.95 $m^3$/d) |
| | Salt Rejection : | 99.7 % (99.5% minimum) |
| **Type** | Configuration: | Spiral Wound |
| | Membrane Polymer: | Composite Polyamide |
| | Membrane Active Area: | 80 $ft^2$ (7.43 $m^2$) |
| | Feed Spacer: | 34 mil (0.864 mm) |
| **Application Data*** | Maximum Applied Pressure: | 600 psig (4.16 MPa) |
| | Maximum Chlorine Concentration: | < 0.1 PPM |
| | Maximum Operating Temperature: | 113 °F (45 °C) |
| | pH Range, Continuous (Cleaning): | 2-11 (1-13)* |
| | 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: | 10 psi |

***** 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 initial (data taken after 30 minutes of operation), based on the following conditions:

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) | 8 (3.6) |

**Core tube extension = 1.05" (26.7 mm)**

**Notice:** Permeate flow for individual elements may vary + 25 or - 15 percent. All membrane elements are supplied with a brine seal, interconnector, and o-rings. Elements are enclosed in a sealed polyethylene bag containing less than 1.0% sodium meta-bisulfite solution and 10% propylene glycol, and then packaged in a cardboard box.

 10/23/09

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APPLIED MEMBRANES INC.®
2450 Business Park Dr. Vista, CA 92081 ☎ (760) 727-3711 🖷 (760) 727-442
www.appliedmembranes.com ✉ sales@appliedmembranes.com