



**Membrane Element**

**SWC5 1640**

**Performance**

Permeate Flow: 36,000 gpd (136.3 m<sup>3</sup>/d)  
Salt Rejection: 99.8 % (99.65% minimum)

**Type**

Configuration: Spiral Wound  
Membrane Polymer: Composite Polyamide  
Membrane Active Area: 1700 ft<sup>2</sup> (158 m<sup>2</sup>)  
Feed Spacer: 28 mil (0.71 mm)

**Application Data\***

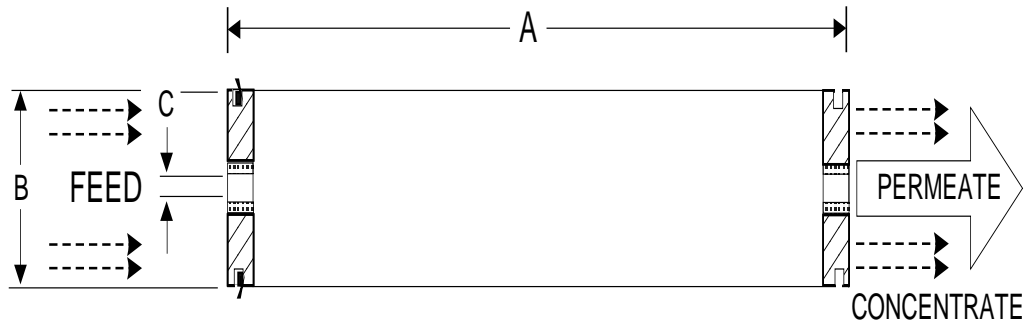
Maximum Applied Pressure: 1000 psig (6.9 MPa)  
Maximum Chlorine Concentration: < 0.1 PPM  
Maximum Operating Temperature: 113 °F (45 °C)  
pH Range, Continuous (Cleaning): 2-11 (1-13)\*  
Maximum Feedwater Turbidity: 1.0 NTU  
Maximum Feedwater SDI (15 mins): 5.0  
Maximum Feed Flow: 250 GPM (56 m<sup>3</sup>/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 details 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:

32,000 PPM NaCl solution  
800 psi (5.52 MPa) Applied Pressure  
77 °F (25 °C) Operating Temperature  
10% Permeate Recovery  
6.5 - 7.0 pH Range



A, inches (mm)	B, inches (mm)	C, inches (mm)	Dry Weight, lbs. (kg)	Wet, Drained Weight, lbs (kg)
40.9 (1038.9)	15.8 (401.8)	3.000 (76.2)	114 (51.7)	139 (63)

**Notice:** Permeate flow for individual elements may vary + 15 /-15 percent. Membrane active area may vary +/-4%. 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 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. 11/03/15