

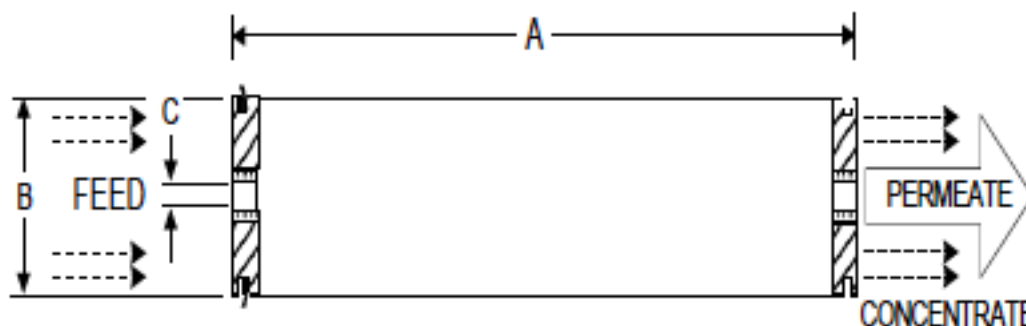
	Membrane Element	ESPA2 1640
<b>Performance</b>	Permeate Flow: Salt Rejection:	41,000 gpd (155.2 m <sup>3</sup> /d) 99.6% (99.4% minimum)
<b>Type</b>	Configuration: Membrane Polymer: Membrane Active Area: Feed Spacer:	Spiral Wound Composite Polyamide 1700 ft <sup>2</sup> (158 m <sup>2</sup> ) 28 mil (0.71 mm)
<b>Application Data*</b>	Maximum Applied Pressure: Maximum Chlorine Concentration: Maximum Operating Temperature: pH Range, Continuous (Cleaning) Maximum Feedwater Turbidity: Maximum Feedwater SDI (15 mins): Maximum Feed Flow: Minimum Ratio of Concentrate to Permeate Flow for any Element: Maximum Pressure Drop for Each Element:	600 psig (4.14 MPa) < 0.1 PPM 113 °F (45 °C) 2.0 - 10.6 (1-12)* 1.0 NTU 5.0 250 GPM (56 m <sup>3</sup> /h) 5:1 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:

1500 PPM NaCl solution  
150 psi (1.05 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)	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 or -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.

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