



Membrane Element ESPA2 1640

Performance Permeate Flow: 41,000 gpd (155.2 m³/d)

Salt Rejection: 99.6% (99.4% minimum)

Type Configuration: Spiral Wound

Membrane Polymer:Composite PolyamideMembrane Active Area:1700 ft² (158 m²)Feed Spacer:28 mil (0.71 mm)

Application Data* Maximum Applied Pressure: 600 psig (4.14 MPa)

Maximum Chlorine Concentration:< 0.1 PPM</th>Maximum Operating Temperature:113 °F (45 °C)pH Range, Continuous (Cleaning)2.0 - 10.6 (1-12)*Maximum Feedwater Turbidity:1.0 NTU

Maximum Feedwater SDI (15 mins): 5.0

Maximum Feed Flow: 250 GPM (56 m³/h)

Minimum Ratio of Concentrate to

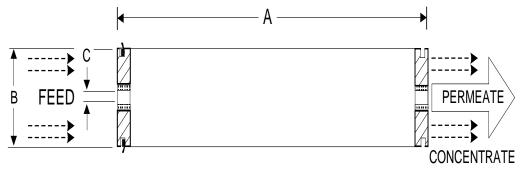
Permeate Flow for any Element: 5:1

Maximum Pressure Drop for Each Element: 10 psi

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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info@lenntech.com Tel. +31-152-610-900 www.lenntech.com Fax. +31-152-616-289

^{*} 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.