sales@pureaqua.com +1(714) 432-9996 +1 (844) 309-7501

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Membrane Element

ESNA1-LF-LD (Low Fouling Technology)

Stable Performance	Permeate Flow : CaCl <sub>2</sub> Rejection: CaCl <sub>2</sub> Rejection (minimum/maximum) : * Expected calcium rejection for a typical 500 ppm well water is	8,400 gpd (31.8 m <sup>3</sup> /d) 92% 87%/96% 96% at 13 gfd operating flux and 25°C.
Туре	Configuration: Membrane Polymer: Membrane Active Area: Feed Spacer:	Low Fouling Spiral Wound Composite Polyamide 400 ft <sup>2</sup> (37.1m <sup>2</sup> ) 34 mil (0.864 mm)
Application Data*	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) 2-10 (1-12)* 1.0 NTU 5.0 75 GPM (17.0 m <sup>3</sup> /h) 5:1 15 psi

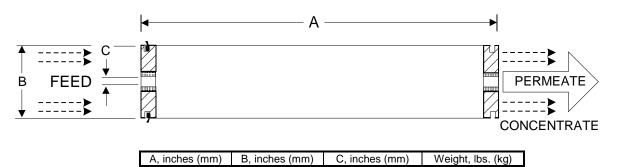
\* The limitations shown here are for general use. For specific projects, operating at more conservative values may ensure the best performance and longest life of the membrane. See Hydranautics Technical Bulletins for more detail on operation limits, cleaning pH, and cleaning temperatures.

## **Test Conditions**

The stated performance is initial (data taken after 30 minutes of operation), based on the following conditions:

500 ppm CaCl<sub>2</sub> 75 psi (0.52 MPa) Applied Pressure 77 °F (25 °C) Operating Temperature 15% Permeate Recovery 6.5 – 7.0 Feed pH

40.0 (1016)



Notice: Permeate flow for individual elements may vary -20/+25 percent. Membrane active area may vary +/-4%. Element weight may vary. 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.

1.125 (28.6)

33 (15)

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7.89 (200)