



Membrane Element

ESNA1-LF2-LD (Low Fouling Technology)

Stable Performance Permeate Flow:

10,500 gpd (39.7 m³/d)

CaCl₂ Rejection:

86%

83%/90%

CaCl₂ Rejection (minimum/maximum)

* Expected calcium rejection for a typical 500 ppm well water is 93% at 13 gfd operating flux and 25 C.

Type Configuration:

Low Fouling Spiral Wound Membrane Polymer: Composite Polyamide 400 ft² (37.1m²)

Membrane Active Area:

34 mil (0.864 mm) with biostatic Feed Spacer:

Application Data*

Maximum Applied Pressure:

600 psig (4.16 MPa) < 0.1 PPM

Maximum Chlorine Concentration: Maximum Operating Temperature: pH Range, Continuous (Cleaning): Maximum Feedwater Turbidity:

113 °F (45 °C) 2-10 (1-12)* 1.0 NTU

Maximum Feedwater SDI (15 mins):

4.0 75 GPM (17.0 m³/h)

Maximum Feed Flow:

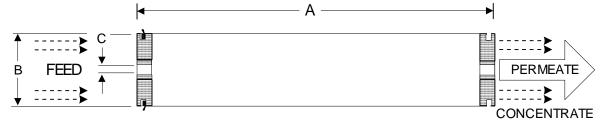
Minimum Ratio of Concentrate to

5:1

Test Conditions

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

500 ppm CaCl₂ 75 psi (0.52 MPa) Applied Pressure 77 °F (25 °C) Operating Temperature 15% Permeate Recovery 6.5 - 7.0 Feed pH



A, inches (mm)	B, inches (mm)	C, inches (mm)	Weight, lbs. (kg)
40.0 (1016)	7.89 (200)	1.125 (28.6)	36 (16.4)

Permeate flow for individual elements may vary -20/+25 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

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. 11/01/11

> Hydranautics Corporate: 401 Jones Road, Oceanside, CA 92058 1-800-CPA-PURE Phone: 760-901-2500 Fax: 760-901-2578 info@hydranautics.com

Permeate Flow for any Element: 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.