

Membrane Element

ESNA1-LF2-LD

(Low Fouling Technology)

Stable Performance Permeate Flow:

10,500 gpd (39.7 m³/d)

CaCl2 Rejection:

86%

CaCl₂ Rejection (minimum/maximum)

83%/90%

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

Type

Configuration: Membrane Polymer: Membrane Active Area: Feed Spacer:

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

34 mil (0.864mm)

Application Data*

Maximum Applied Pressure: Maximum Chlorine Concentration: Maximum Operating Temperature: pH Range, Continuous (Cleaning): Maximum Feedwater Turbidity: Maximum Feedwater SDI (15 mins): 600 psig (4.16 MPa) < 0.1 PPM 113 °F (45 °C)

2-10 (1-12)* 1.0 NTU 4.0

Maximum Feed Flow:

75 GPM (17.0 m³/h)

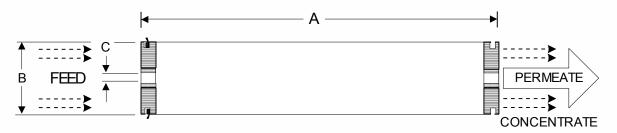
Minimum Ratio of Concentrate to

5:1 10 psi

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) |

Notice: 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 vacuum sealed in a polyethylene bag containing less than 1.0% sodium bisulfite solution, and then packaged in a cardboard box.

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Permeate Flow for any Element: Maximum Pressure Drop for Each Element:

^{*} 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.