

Membrane Element

ESNA1-LF2-LD (Low Fouling Technology)

| | | |
|---------------------------|---|-------------------------------------|
| Stable Performance | Permeate Flow: | 10,500 gpd (39.7 m ³ /d) |
| | CaCl ₂ Rejection: | 86% |
| | CaCl ₂ Rejection (minimum/maximum) | 83%/94% |
| | * 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 |
| | Membrane Active Area: | 400 ft ² (37.1m ²) |
| | Feed Spacer: | 34 mil (0.864 mm) with biostatic agent |

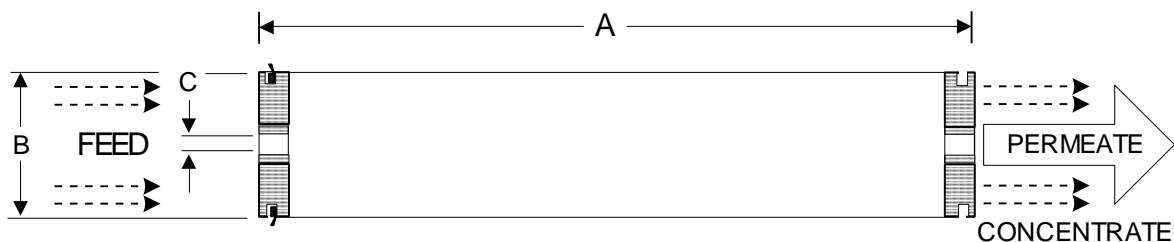
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|--------------------------|--|---------------------------------|
| Application Data* | Maximum Applied Pressure: | 600 psig (4.16 MPa) |
| | Maximum Chlorine Concentration: | < 0.1 PPM |
| | Maximum Operating Temperature: | 113 °F (45 °C) |
| | pH Range, Continuous (Cleaning): | 2-10 (1-12)* |
| | Maximum Feedwater Turbidity: | 1.0 NTU |
| | Maximum Feedwater SDI (15 mins): | 4.0 |
| | Maximum Feed Flow: | 75 GPM (17.0 m ³ /h) |
| | Minimum Ratio of Concentrate to Permeate Flow for any Element: | 5:1 |
| | 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.

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 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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