

## FICHA TECNICA

# ESNA1-LF-LD

### Specified Performance\*

|                                                                                                         |                                    |
|---------------------------------------------------------------------------------------------------------|------------------------------------|
| Permeate Flow:                                                                                          | 9,500 gpd (36.0 m <sup>3</sup> /d) |
| CaCl <sub>2</sub> Rejection:                                                                            | 93%                                |
| CaCl <sub>2</sub> Rejection (Minimum/Maximum):                                                          | 88%/97%                            |
| * Expected calcium rejection for a typical 500 ppm well water is 96% at 13 gfd operating flux and 25°C. |                                    |

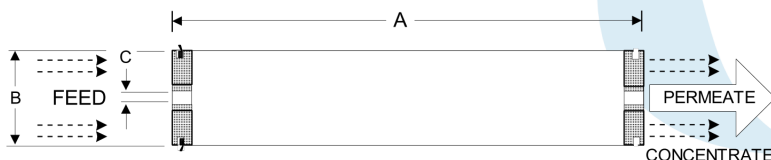
|                  |                                     |
|------------------|-------------------------------------|
| Test Conditions: | 500 ppm CaCl <sub>2</sub> solution  |
|                  | 75 psig (0.52 MPa) Applied Pressure |
|                  | 77 °F (25 °C) Operating Temperature |
|                  | 15% Permeate Recovery               |
|                  | 6.5 - 7.0 pH Range                  |

\*The Specified Performance is based on data taken after a minimum of 10 minutes of operation. Actual testing of elements may be done at conditions which vary from these exact values; in which case, the performance is normalized back to these standard conditions. Permeate flow for individual elements may vary -20 / +25 percent from the value specified.

### General Product Description\*\*

|                         |                                            |
|-------------------------|--------------------------------------------|
| Configuration:          | Low Fouling Spiral Wound                   |
| Membrane Polymer:       | Composite Polyamide                        |
| Membrane Active Area**: | 400 ft <sup>2</sup> (37.2 m <sup>2</sup> ) |
| Feed Spacer:            | 34 mil (0.86 mm)                           |

Packaging: 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.



Element Details\*\*

| A, inches (mm) | B, inches (mm) | C, inches (mm) |
|----------------|----------------|----------------|
| 40.0 (1016)    | 7.89 (200)     | 1.125 (28.6)   |

\*\*Values listed are indicative, not specified.

### Product Use and Restrictions^

|                                         |                                     |
|-----------------------------------------|-------------------------------------|
| Maximum Applied Pressure:               | 600 psig (4.14 MPa)                 |
| Maximum Chlorine Concentration:         | < 0.1 ppm                           |
| Maximum Operating Temperature:          | 113 °F (45 °C)                      |
| pH Range, Continuous (Cleaning):        | 2-10 (1-12 at 25 °C for 30 minutes) |
| Maximum Feedwater Turbidity:            | 1.0 NTU                             |
| Maximum Feedwater SDI (15 mins):        | 5.0                                 |
| Maximum Feed Flow:                      | 85 gpm (19.3 m <sup>3</sup> /h)     |
| Minimum Brine Flow:                     | 12 gpm (2.7 m <sup>3</sup> /h)      |
| Maximum Pressure Drop for Each Element: | 15 psi (0.10 MPa)                   |

^ The limitations shown here are for general use. For specified projects, operation at more conservative values may help ensure optimum performance and membrane life.