HYDRANAUTICS
www.membranes.com
A Nitto Denko Company

NITTO DENKO

Membrane Element ESNA1-LF2-4040

Performance:

Permeate Flow:	1,870 gpd (7.1 m^3/d)
$CaCl_2$ Rejection*(Nominal):	87%
$CaCl_2$ Rejection (minimum/maximum)	73%/92%

* Expected calcium rejection for a typical 500 ppm well water is 96% at 13 gfd operating flux and 25 C.

Type

Configuration:	Spiral Wound
Membrane Polymer:	Composite Polyamide
Nominal Membrane Area:	85 ft^2

Application Data*

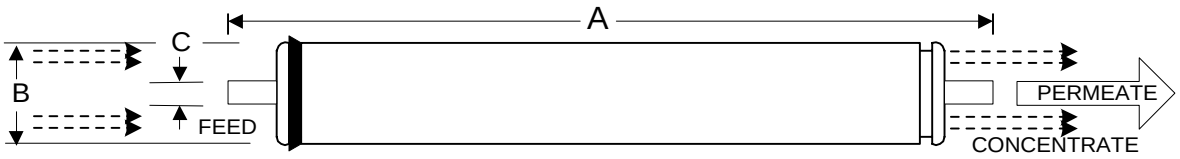
Maximum Applied Pressure:	600 psig (4.16 MPa)
Maximum Chlorine Concentration:	< 0.1 PPM
Maximum Operating Temperature:	113 °F (45 °C)
Feedwater pH Range:	3.0 - 10.0
Maximum Feedwater Turbidity:	1.0 NTU
Maximum Feedwater SDI (15 mins):	5.0
Maximum Feed Flow:	16 GPM (3.6 m^3/h)
Minimum Ratio of Concentrate to Permeate Flow for any Element:	5:1
Maximum Pressure Drop for Each Element:	10 psi

***** The limitations shown here are for general use. The values may be more conservative for specific projects to ensure the best performance and longest life of the membrane.

Test Conditions

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

500 ppm $CaCl_2$
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)
40.00 (1016)	3.95 (100.3)	0.75 (19.1)	8 (3.6)

Core tube extension = 1.05" (26.7 mm)

Notice: Permeate flow for individual elements may vary + 34 or - 25 percent. 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.

Hydranautics Corporate: 401 Jones Road, Oceanside, CA 92054
1-800-CPA-PURE Phone: 760-901-2500 Fax: 760-901-2578 info@hydranautics.com