



## Nanofiltration Membrane Element

## **NANO-SW-4040**

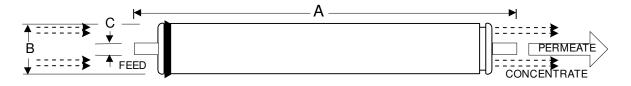
Performance	MgSO <sub>4</sub> Permeate Flow (Nominal): MgSO <sub>4</sub> Rejection (Nominal):	2000 gpd (7.6 m <sup>3</sup> /d) 99.8% (99.6% minimum)
Туре	Configuration: Membrane Polymer: Nominal Membrane Area: Feed/Brine Spacer Thickness:	Spiral Wound Composite Polyamide 75 ft <sup>2</sup> (7 m <sup>2</sup> ) 34 mil (0.87 mm)
Application Data*	Maximum Applied Pressure (Recommended) <sup>^</sup> : Maximum Chlorine Concentration: Maximum Operating Temperature: pH Range, Operation (Cleaning): Maximum Feedwater Turbidity: Maximum Feedwater SDI (15 mins): Maximum Feed Flow: Maximum Pressure Drop for Each Element: Typical Seawater Performance <sup>†</sup> : Nominal Permeate Flow: Nominal Chloride Rejection: Nominal Sulfate Rejection:	600 psig (4.14 MPa) < 0.1 PPM 113 °F (45 °C) 3.0 - 9.0 (1.0 – 11.5) 1.0 NTU 5.0 16 GPM (3.6 m³/h) 15 psi 1,200 gpd (4.6 m³/d) 25% 99.8%

<sup>\*</sup> 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 membranes. See Hydranautics Technical Bulletins for more detail on operation limits, cleaning pH, and cleaning temperatures.
^ Element can withstand 1,200 psig as maximum applied pressure, however, applied feed pressure exceeding 600 psig may cause

## **Test Conditions**

The stated performance is based on the following test conditions:

2000 ppm MgSO<sub>4</sub> 110 psi (0.76 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) (3.6)

Core tube extension = 1.05" (26.7 mm)

Permeate flow for individual elements may vary + or - 20 percent. Element weight may vary. All membrane elements are supplied with a brine seal, interconnector, Notice: and o-rings. All membrane elements are supplied with a brine seal, interconnector, and o-rings. Elements are enclosed in a sealed polyethylene bag containing deionized water, and then packaged in a cardboard box

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reduction in membrane permeablitiv.

Typical Synthetic Seawater Test Condition: 35,000 ppm NaCl + 8000 ppm MgSO<sub>4</sub> 200 psi (1.4 MPa), 77 °F (25°C), 15% Permeate Recovery, 6.5 – 7.0 feed pH.