



Performance	Membrane Element	NANO-SW
	MgSO ₄ Permeate Flow (Nominal): MgSO ₄ Rejection:	11,000 gpd (41.6 m³/d) 99.8% (99.6% minimum)
Туре	Configuration: Membrane Polymer: Nominal Membrane Area: Feed/Brine Spacer Thickness:	Spiral Wound Composite Polyamide 400 ft² (37 m²) 34 mil (0.87 mm)
Application Data*	Maximum Applied Pressure: 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†: Nominal Permeate Flow: Nominal Chloride Rejection: Nominal Sulfate Rejection:	600 psig (4.14 MPa) < 0.1 ppm 113 °F (45 °C) 3 – 9 (1 – 11.5) 1.0 NTU 5.0 75 gpm (17.0 m³/h) 15 psi 6,500 gpd (24.6 m³/d) 25% 99.8%

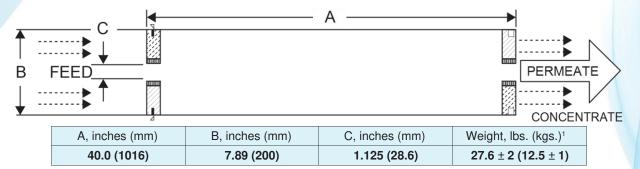
^{*} Limitations shown here are for general use. For specific projects, operating at more conservative values may ensure the best performance and longest life of the membrane. See Hydranautics Technical Service Bulletin TSB107 for more details on operation limits, cleaning pH, and cleaning temperatures. † Typical Synthetic Seawater Test Condition: 35,000 ppm NaCI + 8000 ppm MgSQ, 200 psi (1.4 MPa), 77 °F (25 °C), 15% Permeate Recovery, 6.5 –7.0 feed pH.

Test Conditions

The stated performance is based on the following test conditions:

2000 ppm MgSO₄ 110 psi (0.76 MPa) Applied Pressure 77 °F (25 °C) Operating Temperature 15% Permeate Recovery 6.5–7.0 Feed pH

Product Dimensions



Notice: Permeate flow for individual elements may vary ±20%. Element weight may vary. 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.

Hydranautics believes the information and data contained herein to be accurate and useful. The information and data are offered in good faith, but without guarantee, as conditions and methods of use of our products are beyond our control. Hydranautics assumes no liability for results obtained or damages incurred through the application of the presented information and data. It is the user's responsibility to determine the appropriateness of Hydranautics' products for the user's specific end uses.

¹ Element weight when shipped from factory. Used, drained elements may still contain an additional 2 lbs (1 kg) of liquid.

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