

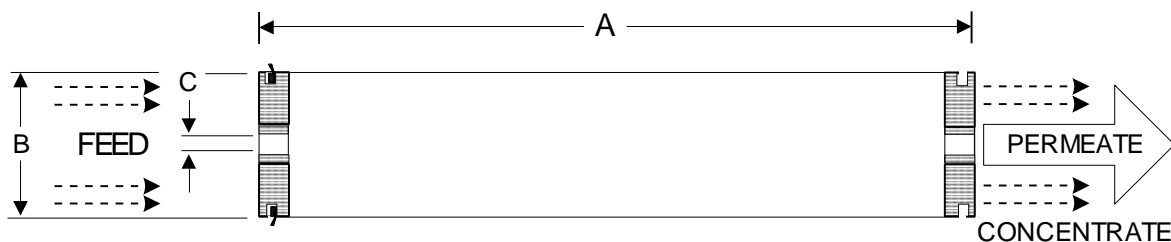
Membrane Element		NANO-BW
Performance	MgSO₄ Permeate Flow (Nominal): MgSO ₄ Rejection (Nominal):	11,000 gpd (41.6 m ³ /d) 99.7% (99.5% minimum)
Type	Configuration: Membrane Polymer: Nominal Membrane Area: Feed/Brine Spacer Thickness:	Spiral Wound Composite Polyamide 400 ft ² (37 m ²) 34 mil (0.87 mm) with HYDRAblock™ Technology
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: Minimum Ratio of Concentrate to Permeate Flow for any Element: Maximum Pressure Drop for Each Element:	600 psig (4.1 MPa) < 0.1 PPM 113 °F (45 °C) 3.0 - 9.0 (1.0 – 11.5) 1.0 NTU 5.0 75 GPM (17.0 m ³ /h) 5:1 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 membranes. See Hydranautics Technical Bulletins for more detail on operation limits, cleaning pH, and cleaning temperatures.

Test Conditions

The stated performance is based on the following test conditions:

2000 ppm MgSO₄
 130 psi (0.9 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 + or - 20 percent. All membrane elements are supplied with a brine seal, interconnector, and o-rings. All membrane elements are supplied with a brine seal, interconnector, and o-rings. Elements are enclosed in a sealed polyethylene bag 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.

3/21/12