

**Membrane Element**
**NANO-BW MAX**
**Performance**
**MgSO<sub>4</sub>**

 Permeate Flow (Nominal):  
 MgSO<sub>4</sub> Rejection:

 12,000 gpd (45.4 m<sup>3</sup>/d)  
 99.7% (99.5% minimum)

**Type**

 Configuration:  
 Membrane Polymer:  
 Nominal Membrane Area:  
 Feed/Brine Spacer Thickness:

 Spiral Wound  
 Composite Polyamide  
 440 ft<sup>2</sup> (40.8 m<sup>2</sup>)  
 26 mil (0.66 mm) with  
 HYDRAblock™ Technology

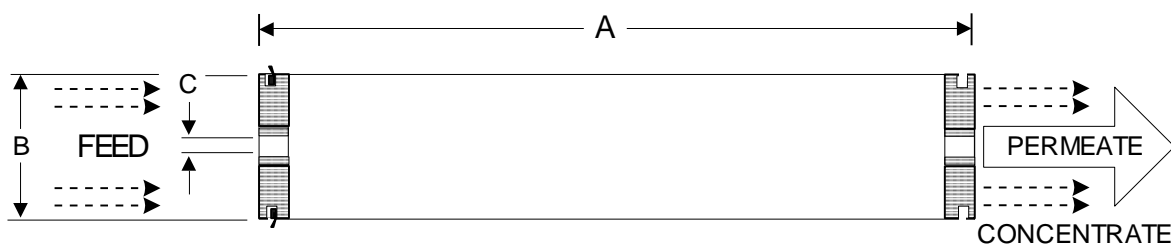
**Application Data\***

 Maximum Applied Pressure: 600 psig (4.16 MPa)  
 Maximum Chlorine Concentration: < 0.1 PPM  
 Maximum Operating Temperature: 113 °F (45 °C)  
 pH Range, Operation (Cleaning): 3.0 - 9.0 (1.0 - 11.5)  
 Maximum Feedwater Turbidity: 1.0 NTU  
 Maximum Feedwater SDI (15 mins): 5.0  
 Maximum Feed Flow: 75 GPM (17.0 m<sup>3</sup>/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. 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 MgSO<sub>4</sub>  
 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.

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