

Membrane Element

NANO-BW

Performance

MgSO₄

Permeate Flow (Nominal):

11,000 gpd (41.6 m³/d)

MgSO₄ Rejection (Nominal):

99.7% (99.5% minimum)

Type

Configuration:

Spiral Wound

Membrane Polymer:

Composite Polyamide

Nominal Membrane Area:

400 ft² (37 m²)

Feed/Brine Spacer Thickness:

34 mil (0.87 mm) with
HYDRAblock™ Technology

Application Data*

Maximum Applied Pressure:

600 psig (4.14 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 m³/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:

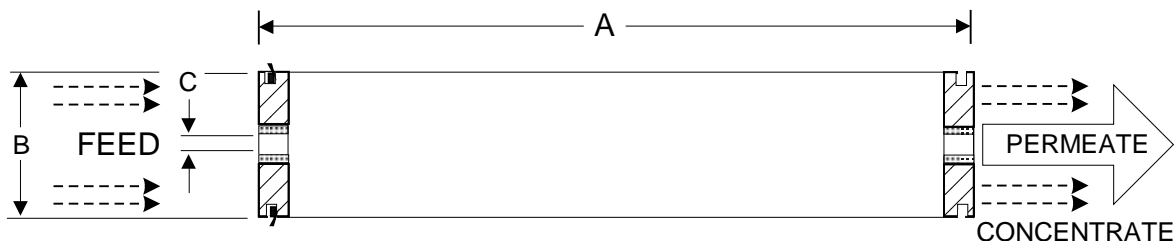
2000 ppm MgSO₄

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. Element weight may vary. 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 containing deionized water, and then packaged in a cardboard box.

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