

# Nitto

# HYDRANAUTICS

Nitto Group Company

## Membrane Element

## SWC5-LD (Low Fouling Technology)

### Performance:

Permeate Flow:	9,000 gpd (34.1 m <sup>3</sup> /d)
Salt Rejection:	99.8% (99.7% minimum)
Boron Rejection (Typical):	92.0% <sup>†</sup>

### Type

Configuration:	Low Fouling Spiral Wound
Membrane Polymer:	Composite Polyamide
Membrane Active Area:	400 ft <sup>2</sup> (37.1m <sup>2</sup> )
Feed Spacer:	34 mil (0.864 mm) with biostatic agent

### Application Data\*

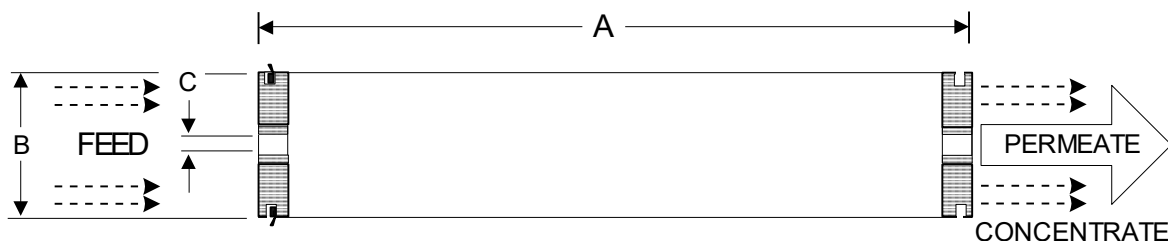
Maximum Applied Pressure:	1200 psig (8.27 MPa)
Maximum Chlorine Concentration:	< 0.1 PPM
Maximum Operating Temperature:	113 °F (45 °C)
pH Range, Continuous (Cleaning):	2-11 (1-13)*
Maximum Feedwater Turbidity:	1.0 NTU
Maximum Feedwater SDI (15 mins):	5.0
Maximum Feed Flow:	75 GPM (17.0 m <sup>3</sup> /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 membrane. See Hydranautics Technical Bulletins for more detail on operation limits, cleaning pH, and cleaning temperatures.

### Test Conditions

The stated performance is initial (data taken after 30 minutes of operation), based on the following conditions:

32,000 ppm NaCl  
800 psi (5.5 MPa) Applied Pressure  
77 °F (25 °C) Operating Temperature  
10% Permeate Recovery  
6.5 - 7.0 pH Range



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 - 15 percent. Membrane active area may vary +/-4%. All membrane elements are supplied with a brine seal, interconnector, and o-rings. Elements are enclosed in a sealed polyethylene bag containing less than 1.0% sodium meta-bisulfite solution, and then packaged in a cardboard box.

<sup>†</sup> When tested at standard test conditions with 5.0 ppm Boron in feed solution.

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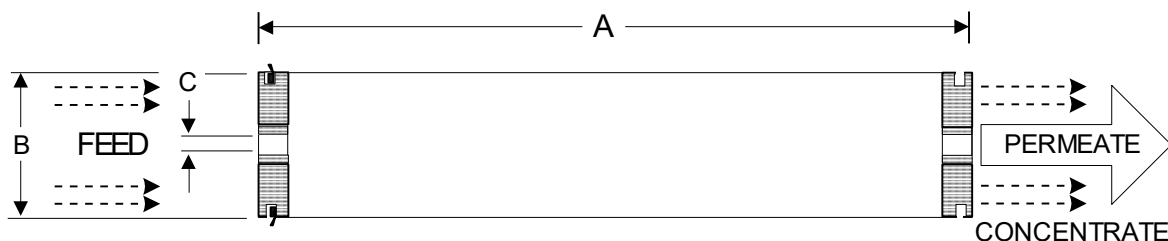
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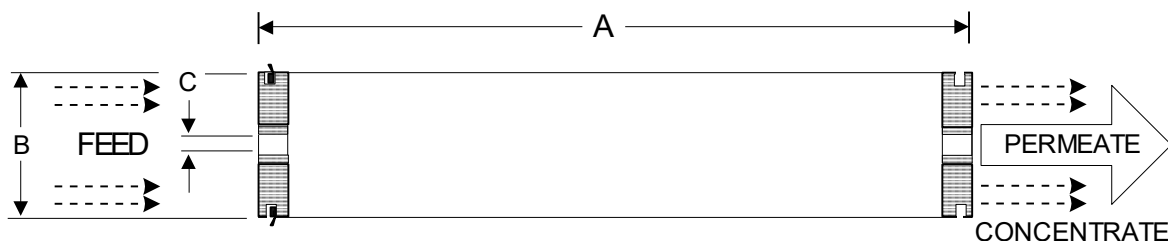
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