NITTO DENKO HYDRANAUTICS

# Membrane Element SWC6-8040

## Performance:

| | Low Pressure: | High Flow: |
|---|---|---|
| Permeate Flow: | 6,000 gpd (22.7 $m^3$/d) | 12,000 gpd (45.5 m3/d) |
| Salt Rejection: | 99.6% (99.4 % min) | 99.8 % (99.7 % min) |
| Boron Rejection (Typical)†: | 83.0% | 91.0% |
| Applied Pressure: | 600 psi (4.1 MPa) | 800 psi (5.4 MPa) |

## Type

| | |
|---|---|
| Configuration: | Spiral Wound |
| Membrane Polymer: | Composite Polyamide |
| Membrane Active Area: | 400 $ft^2$ (37.2$m^{`2}$) |

## Application Data*

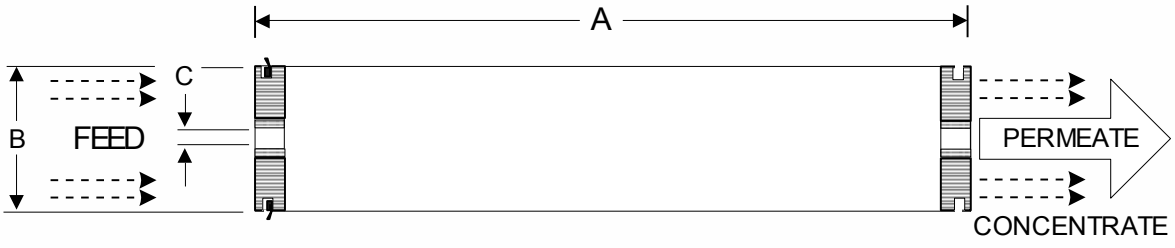
| | |
|---|---|
| Maximum Applied Pressure: | 1200 psig (8.27 MPa) |
| Maximum Chlorine Concentration: | < 0.1 PPM |
| Maximum Operating Temperature: | 113 °F (45 °C) |
| pH Range, Continuous (Cleaning): | 2-11 (1-13)* |
| Maximum Feedwater Turbidity: | 1.0 NTU |
| Maximum Feedwater SDI (15 mins): | 5.0 |
| Maximum Feed Flow: | 75 GPM (17.0 $m^3$/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 low pressure conditions:

32,000 ppm NaCl
600 psi (4.1 Mpa) Applied Pressure
77 °F (25 °C) Operating Temperature
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 +25% or -15%. Membrane active area may vary +/-4%. All membrane elements are supplied with a brine seal, interconnector, and o-rings. Elements are vacuum sealed in a polyethylene bag containing less than 1.0% sodium meta-bisulfite solution, and then packaged in a cardboard box.

† When tested at standard test conditions with 5.0ppm Boron in feed solution.

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