



## **Membrane Element**

## **ESPA1-4040**

**Performance:** Permeate Flow: 2600 gpd (9.8 m<sup>3</sup>/d)

Salt Rejection: 99.3 % (99.0 % Minimum)

Type Configuration: Spiral Wound

Membrane Polymer: Composite Polyamide

Membrane Active Area: 85 ft<sup>2</sup> (7.9m<sup>2</sup>)

**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, Continuous (Cleaning): 2-10 (1-12)\*

Maximum Feedwater Turbidity: 1.0 NTU

Maximum Feedwater SDI (15 mins): 5.0

Maximum Feed Flow: 16 GPM (3.6 m<sup>3</sup>/h)

Minimum Ratio of Concentrate to

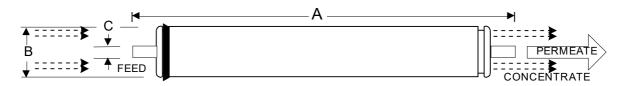
Permeate Flow for any Element: 5:1

Maximum Pressure Drop for Each Element: 10 psi

## **Test Conditions**

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

1500 PPM NaCl solution 150 psi (1.05 MPa) Applied Pressure 77 °F (25 °C) Operating Temperature 15% Permeate Recovery 6.5 - 7.0 pH Range (Data taken after 30 minutes of operation)



Core tube extension = 1.05" (26.7 mm)

**Notice:** Permeate flow for individual elements may vary + or - 15 percent. 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% sodium meta-bisulfite solution and 10% propylene glycol, and then packaged in a cardboard box.

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<sup>\*</sup> 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.