## Membrane Element: ESPA-75

### Performance
- **Permeate Flow:** 75 gpd (0.28 m³/d)
- **Salt Rejection (Nominal):** 98.0 %

### Type
- **Configuration:** Spiral Wound
- **Membrane Polymer:** Composite Polyamide
- **Feed/Brine Spacer Thickness:** 16 mil (0.41 mm)

### Application Data*
- **Maximum Applied Pressure:** 300 psig (2.1 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):** 4.0
- **Maximum Feed Flow:** 3 GPM (11 l/m)
- **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
Elements are wet tested for quality assurance using the following conditions:
- 500 PPM Softened Tap Water
- 65 psi (0.45 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: E = 0.86” (21.8 mm)

* Fits 2” sch 40 PVC pipe

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* FEED
  A
  D
  B
  CONCENTRATE
  PERMEATE

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### Diagram

- **A, inches (mm):** 11.74 (298)
- **B, inches (mm):** 1.78 (45.2)
- **C, inches (mm):** 10.0 (254)
- **D, inches (mm):** 0.68 (17.3)
- **Dry Weight, lbs. (kg):** 0.5 (0.23)

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Notice: Minimum permeate flow for individual elements is 20 percent below listed flow. All membrane elements are supplied with a brine seal and o-rings. Most elements are packaged dry, sealed in polyethylene bags, and shipped in a cardboard box. Some elements are sealed in polyethylene bags containing less than 1.0% sodium metabisulfite solution and shipped in a cardboard box.

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2/25/15

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