Membrane Element

ESPA2-LD

(Low Fouling Technology)

Performance:
- Permeate Flow: 10,000 gpd (37.9 m³/d)
- Salt Rejection: 99.6% (99.5% minimum)

Type
- Configuration: Low Fouling Spiral Wound
- Membrane Polymer: Composite Polyamide
- Membrane Active Area: 400 ft² (37.1 m²)
- Feed Spacer: 34 mil (0.864 mm) with biostatic agent

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): 2-11 (1-13) *
- 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 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:

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

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 metabisulfite solution, and then packaged in a cardboard box.

Hydranautics believes the information and data contained herein to be accurate and useful. The information and data are offered in good faith, but without guarantee, as conditions and methods of use of our products are beyond our control. Hydranautics assumes no liability for results obtained or damages incurred through the application of the presented information and data. It is the user’s responsibility to determine the appropriateness of Hydranautics’ products for the user’s specific end uses. 7/18/11