



MEMBRANE ELEMENT

PMES4-440HR

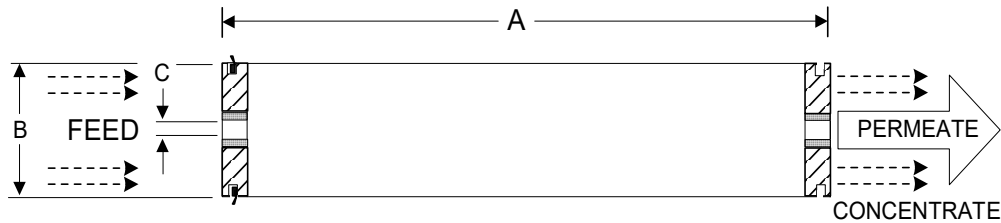
Low Energy and High Rejection

SPECIFICATIONS AND PRODUCT DESCRIPTION

Configuration:	Spiral Wound
Membrane Polymer:	Polyamide Thin-Film Composite
Active Area:	440 ft ²
Feed Spacer Thickness:	28 mil (0.711 mm)
Permeate Flow:	13,500 gpd
Stabilized Salt Rejection:	99.2%

The stated performance is based on the following conditions:

500 ppm NaCl
 100 psig (0.70 MPa) Applied Pressure
 77°F (25°C) Operating Temperature
 15% Permeate Recovery
 pH 6.5 – 7.5



A, inches (mm)	B, inches (mm)	C, inches (mm)	Weight, lbs (Kg)
40.0 (1016)	7.9 (201)	1.125 (28.6)	33 (15)

OPERATING DATA

Maximum Applied Pressure:	600 psig (4.14 MPa)
Free Chlorine Tolerance:	< 0.1 ppm
Maximum Operating Temperature:	113°F (45°C)
Continuous pH Range (Cleaning):	2 – 11 (2 – 12)
Maximum Feedwater Turbidity:	1.0 NTU
Maximum Feedwater SDI ₁₅ :	5.0
Maximum Pressure Drop for Each Element:	15 psig (0.10 MPa)
Maximum Feed Flow:	75 gpm (17.0 m ³ /h)
Minimum Ratio of Concentrate to Permeate Flow for any Element:	5:1

NOTICE: Permeate flow for individual membrane elements may vary by ±15% from the nominal specified value. Elements are supplied with a brine seal, interconnector, and O-rings in sealed polyethylene packaging. Use only glycerin or silicone-based lubricants for seals and O-rings. Static permeate back pressure must be always avoided.

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