

813-HR(CA)

Brackish Water Desalination Full-Fit™ Membrane Element Reverse Osmosis

ELEMENT SPECIFICATIONS

Model	Flow GPD	Flow (m3/d)	Active Area		Rejection		Part Number
			ft2	m2	Average	Minimum	
813-HR(CA)	7,500	28.4	350	32.5	97.5%	96.0%	1118224

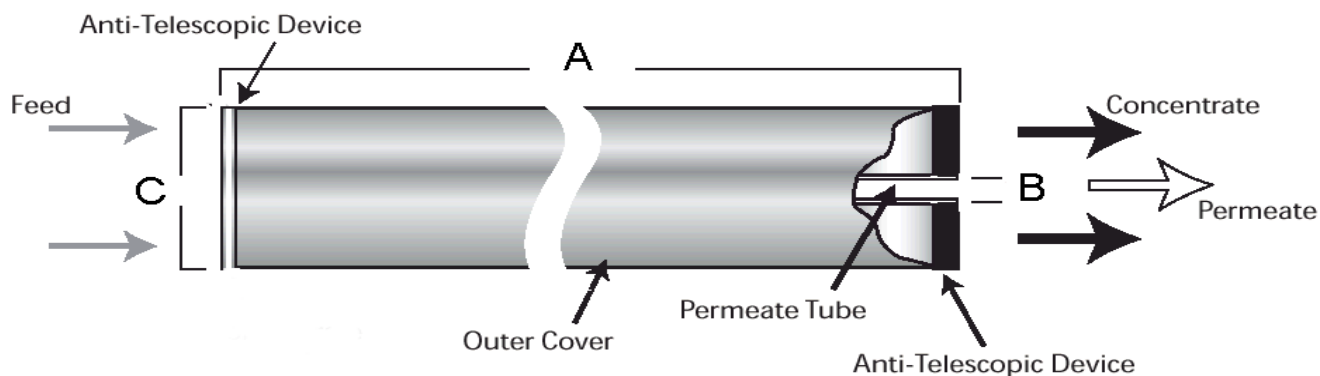
Specifications are based on a 2000 mg/L NaCl solution at 420 psig operating pressure (2930kPa), 77deg.F.(25deg.C), 10% recovery, pH 6-7. Individual flux may vary +15%/ -15%. Average salt rejection after a minimum of 24 hours in continuous operation.

OPERATING AND DESIGN PARAMETERS

Membrane: Cellulose Acetate
Typical Operating Pressure: 140-400psig (965-2760 kPa)
Maximum Pressure: 450psig (3143 kPa)
Maximum Pressure Drop: 10 psig (69 kPa) per element
 50 psig (345 kPa) per vessel
Chlorine Tolerance: 1 ppm maximum, continuous 30 ppm for 30 min. during sanitization
Typical Operating Flux: 10-20 GFD (15-35 L.H-1.M-2)

Optimum rejection pH: 5.0- 6.5
Operating pH range: 5.0-6.5
Cleaning pH range: 3.0-8.0
Maximum Temperature: 86°F (30°C)
Feed NTU: <1
Feed SDI: <5

ELEMENT DIMENSIONS AND WEIGHT



Model	A inches (mm)	B inches (mm)	C* inches (mm)	Weight lbs (kg)
813-HR(CA)	40 (1016)	1.139 (29)	8.3 (211)	42 (19.1)

* The element diameter (dimension C) is designed for optimum performance in Osmonics pressure vessels. Other pressure vessel dimension and tolerance may result in excessive bypass

Notes:

The Langelier Saturation Index (LSI) of the concentrate must be negative to minimize the possibility of calcium scale formation on the membrane surface.
 At start-up the first two hours of permeate should be discarded because of element preservative.
Storage conditions should be at a minimum of: <100F, dry, in original carton and not in direct sunlight.



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