OLTREMARE
LIQUID SEPARATION

Model LOW1-8040

Low Energy, Very High Rejection - Brackish Water Element

Type

Configuration:	Membrane Polymer:	Brine Spacer Material:
Spiral Wound	Composite Polyamide	Polypropylene

Specifications

Permeate Flow:	Salt Rejection:	Nominal Membrane Area:
12000 gpd *(45,4 m^3/d)*	99,3% nominal (99,0% minimum)	400ft^2 *(37,2m^2)*

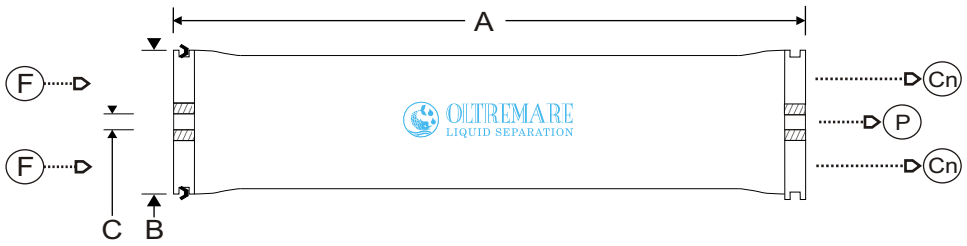
Test Conditions

(After 30 min of operation)

Solution NaCl	Applied Pressure:	Operating Temperature:	Permeate Recovery:	pH Range:
1500 ppm	150 psi *(10,3 bar)*	77 °F *(25 °C)*	15%	6,5 ÷ 7,0

Dimensions

A Total Length	B ATD Diameter	C Connection Int. Diameter	Weight
40.0 inches *(1016 mm)*	7.89 inches *(200 mm)*	1.125 inches *(28,6 mm)*	36 lbs *(16,4 Kg)*



Maximum Operating Limits

Operating Pressure	Temperature	Pressure Drop	Feed Flow	Chlorine Concentration	Feedwater SDI (15min)	Feedwater Turbidity
600 psi *(41,4 bar)*	113 °F *(45 °C)*	10 psi *(0,7 bar)*	75 gpm *(17,0 m^3/h)*	<0,1 ppm	5,0	1,0 NTU

Other Operating Limits

Feedwater pH	Minimum ratio of concentrate to permeate flow for any element
3,0 ÷ 10,0	5:1

The limitations shown in Operating Limits are for general use. The values may be more conservative for specific projects to ensure the best performance and longest life of the membrane.

Notice: Permeate flow for individual element may vary +25 or -15 percent. Element is vacuum sealed in a polyethylene bag containing less than 1.0% sodium meta-bisulfite and 10% propylene glycol solution.Element is supplied with interconnector.

Guidelines: Permeate obtained from first hour of operation should be discarded.
Avoid static permeate-side backpressure at all times.
These membranes may be subject to drinking water application restrictions in some countries: please check the application status before use and sale.
Please refer to the application information “technical bulletins” in our website (search: foulant, cleaning, storage, other) or contact us.
For element loading use only silicon or glycerine to lubricate o-rings and brine seal.

The customer is fully responsible for the effects of incompatible chemicals on elements. The presence of free chlorine and other oxidizing agents will cause membrane failure, the damage is not covered under warranty.
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