OLTREMARE
LIQUID SEPARATION

Model LOW1-4021-XL

Extra Area - 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:
1450 gpd *(5,5 m^3/d)*	99,0% nominal (98,0% minimum)	45ft^2 *(4,2m^2)*

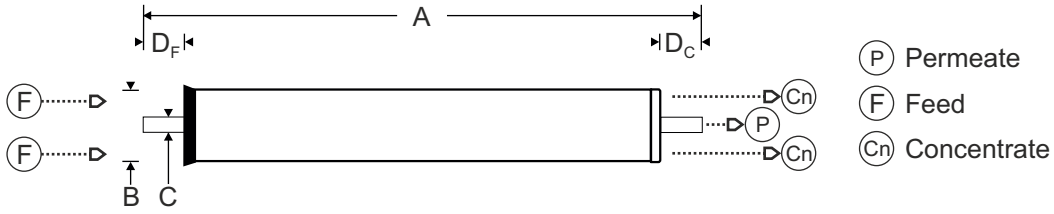
Test Conditions

(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)*	10%	6,5 ÷ 7,0

Dimensions

A Total Length	B ATD Diameter	C Connection Diameter	D_F Core Tube Extension Feed Side	D_C Core Tube Extension Conc. Side	Weight
21.0 inches *(533,4 mm)*	3.95 inches *(100,3 mm)*	0.75 inches *(19,1 mm)*	1.2 inches *(30,5 mm)*	1.2 inches *(30,5 mm)*	4 lbs *(1,8 Kg)*



Maximum Operating Limits

Operating Pressure Tape Wrapped	Temperature	Pressure Drop	Feed Flow	Chlorine Concentration	Feedwater SDI (15min)	Feedwater Turbidity
300 psi *(20,7 bar)*	113 °F *(45 °C)*	10 psi *(0,7 bar)*	12 gpm *(45,4 lpm)*	<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 elements can vary -15/+25 percent of listed flow. Elements are vacuum sealed in a polyethylene bag containing less than 1.0% sodium meta-bisulfite and 10% propylene glycol solution.

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.
For element loading use only glycerine to lubricate o-rings and brine seal.