OLTREMARE
LIQUID SEPARATION

# Model XL-1812

Low Energy, Excellent Productivity - Brackish Water Element

## Type

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

## Specifications

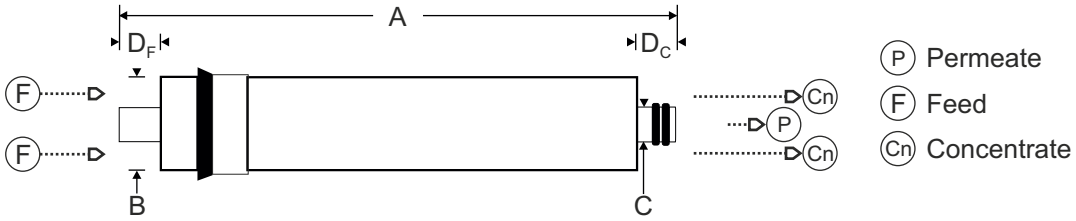
| Permeate Flow: | Salt Rejection: |
|---|---|
| 150 gpd<br>*(568 l / d)* | 97,5% nominal<br>(96,0% minimum) |

## Test Conditions
(After 30 min of operation)

| Solution NaCl | Applied Pressure: | Operating Temperature: | Permeate Recovery: | pH Range: |
|---|---|---|---|---|
| 200 ppm | *50* psi<br>*(3,5 bar)* | 77 °F<br>*(25 °C)* | 15% | 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 |
|---|---|---|---|---|---|
| 11.7 inches<br>*(298 mm)* | 1.9 inches<br>*(48,2 mm)* | 0.67 inches<br>*(17,0 mm)* | 0.83 inches<br>*(21,0 mm)* | 0.83 inches<br>*(21,0 mm)* | 0.5 lbs<br>*(0,23 Kg)* |




Note: Core tube on brine seal side (dimension: "$D_F$" ) is plugged. Permeate flow is through o-ring side of tube only.

## Maximum Operating Limits

| Operating Pressure | Temperature | Pressure Drop | Feed Flow | Chlorine Concentration | Feedwater SDI (15min) | Feedwater Turbidity |
|---|---|---|---|---|---|---|
| 125 psi<br>*(8,6 bar)* | 113 °F<br>*(45 °C)* | 10 psi<br>*(0,7 bar)* | 1,6 gpm<br>*(6 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: Minimum permeate flow for individual elements 15 percent below listed flow. Elements are dry and vacuum sealed in a polyethylene bag.

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.

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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