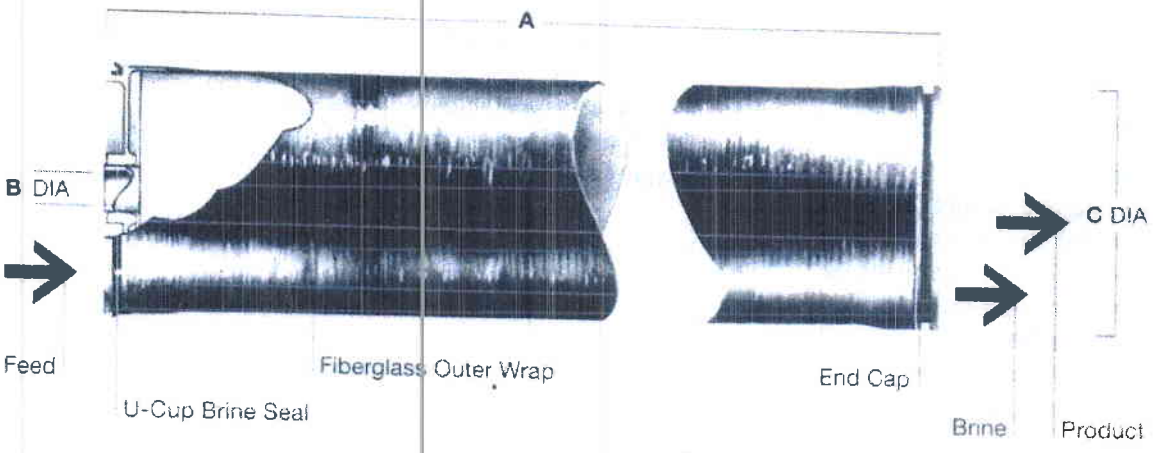
SIDMAS
Membranes

8" Brackish Water RO Element

Technical Bulletin

Product	Nominal Surface Area (ft^2)	Product Flow gpd	Optimum Operating Pressure (psi)	Salt Rejection %
SB-400NR	400	10500	225	99.5

Permeate flow and salt rejection based on the following standard conditions:
2000 ppm NaCl, 225 psi, 25°C (77°F), pH 8, and 15% recovery.
Flow rates for individual elements may vary ± 15%.
Minimum salt rejection for individual elements is 98.5%.



Operating Limits			
Membrane Type	Thin Film Composite	pH Range:	
Maximum Operating Pressure	600 psig (41 Bar)	Continuous Operation	2-11
Maximum Operating Temp.	45°C (113°F)	Short-term (30 min.), Cleaning	1-12
Maximum Feed Turbidity	1 NTU	Maximum Feed Flow	85 gpm
Free Chlorine Tolerance	< 0.1 mg/L	Maximum Feed SDI	< 3

Single Element Recovery (Permeate Flow to Feed Flow)		Dimensions (inches)		
	Recovery	A	B	C
SB-400NR	0.15	40.0	1.125	7.9

- Consult the recent DESIGN GUIDELINES for multiple element applications and recommended element recovery rates for various feed sources.

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Important Operating Information

1. Keep elements moist at all times after initial wetting.
2. If operating specifications given in this Product Information bulletin are not strictly followed, the limited warranty will be null and void.
3. Permeate obtained from first hour of operation should be discarded.
4. To prevent biological growth during storage, shipping, or system shutdowns it is recommended that elements be immersed in a protective solution. The standard storage solution contains 1.5 percent (by weight) sodium metabisulfite (food grade).
5. Elements must be in use for at least six hours before formaldehyde is used as a biocide. If the elements are exposed to formaldehyde before being in use for this period of time, a loss in flux may result.
6. The membrane shows some resistance to short-term attack by chlorine (hypochlorite). Continuous exposure, however, may damage the membrane and should be avoided.
7. The customer is fully responsible for the effects of incompatible chemicals on elements. Their use will void the elements limited warranty.

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