



# FILMTEC Membranes

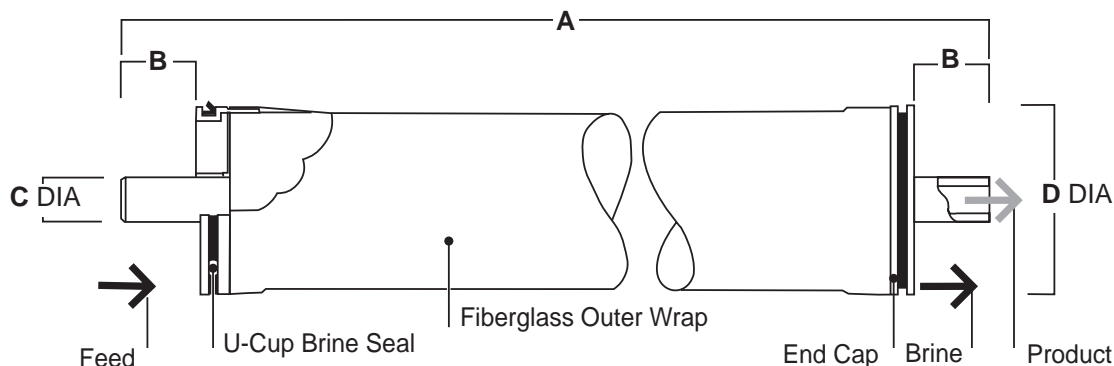
## FILMTEC® 2.5" Seawater RO Elements

### Product Specifications

Product	Product Water Flow Rate			Minimum Salt Rejection Cl <sup>-</sup> (%)	Stabilized Salt Rejection Cl <sup>-</sup> (%)
	(gpd)	(m <sup>3</sup> /d)	(l/h)		
SW30-2514	100	0.38	16	99.2	99.4
SW30-2521	200	0.76	32	99.2	99.4
SW30-2540	540	2.0	83	99.2	99.4
SW30HR-2514	65	0.25	10	99.2	99.4
SW30HR-2521	130	0.50	21	99.2	99.4
SW30HR-2540	320	1.2	54	99.2	99.4

1. Permeate flow and salt rejection based on the following conditions: 32000 ppm NaCl, 800 psi (5.5 MPa), 77°F (25°C), pH 8, and recovery as indicated below.

2. Flow rates for individual elements may vary ±15%.



Product	Single-Element Recovery (Permeate Flow to Feed Flow)	Dimensions – Inches (mm)			
		A	B	C	D
SW30-2514	0.02	14.0 (356)	1.1 (28)	0.75 (19)	2.4 (61)
SW30-2521	0.04	21.0 (533)	1.1 (28)	0.75 (19)	2.4 (61)
SW30-2540	0.08	40.0 (1016)	1.1 (28)	0.75 (19)	2.4 (61)
SW30HR-2514	0.02	14.0 (356)	1.1 (28)	0.75 (19)	2.4 (61)
SW30HR-2521	0.04	21.0 (533)	1.1 (28)	0.75 (19)	2.4 (61)
SW30HR-2540	0.08	40.0 (1016)	1.1 (28)	0.75 (19)	2.4 (61)

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

4. Element to fit 2.45 inch I.D. pressure vessel.

1 inch = 25.4 mm

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For more information about FILMTEC membranes, call Dow Liquid Separations:

North America . . . . . 1-800-447-4369  
Latin America . . . . . (+55) 11-5188-9348  
Europe . . . . . (+31) 20-691-6268  
Japan . . . . . (+81) 3-5460-2100  
Australia . . . . . (+61) 2-9776-3226  
<http://www.dow.com/liquidseps>

## Operating Limits

Membrane Type.....	Thin-Film Composite
Maximum Operating Pressure.....	1000 psi (6.9 MPa)
Maximum Operating Temperature .....	113° F (45 °C)
Maximum Feed Turbidity.....	1 NTU
Free Chlorine Tolerance .....	<0.1 ppm
pH Range, Continuous Operation.....	2-11
pH Range, Short-term Cleaning Cycle (30 min.).....	1-12
Maximum Feed Flow Rate .....	6 gpm (1.4 m <sup>3</sup> /h)
Maximum Feed Silt Density Index .....	SDI 5

## 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 FILMTEC 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 element limited warranty.

**Notice:** The use of this product in and of itself does not necessarily guarantee the removal of cysts and pathogens from water. Effective cyst and pathogen reduction is dependent on the complete system design and on the operation and maintenance of the system.

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