



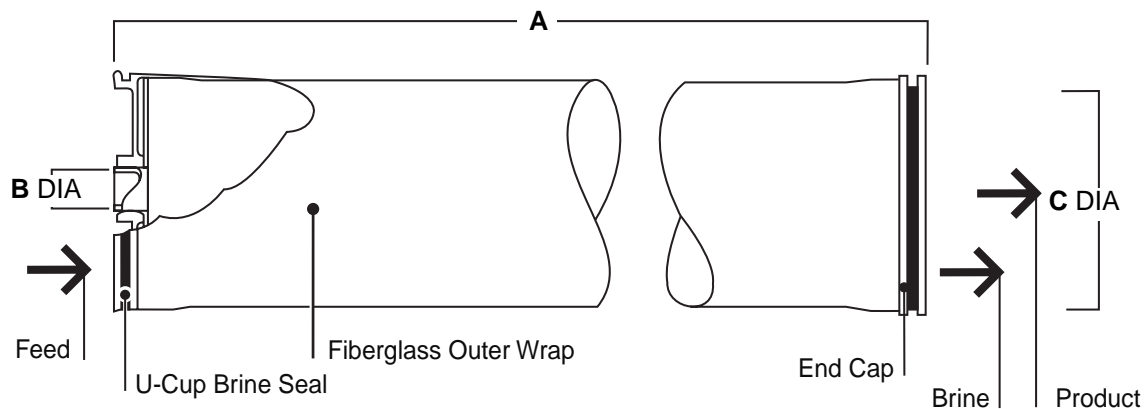
# FILMTEC Membranes

## FILMTEC® 8” Seawater RO Elements

### Product Specifications

Product	Nominal Active Surface Area ft <sup>2</sup> (m <sup>2</sup> )	Product Water Flow Rate gpd (m <sup>3</sup> /d)	Minimum Salt Rejection Cl <sup>-</sup> (%)	Stabilized Salt Rejection Cl <sup>-</sup> (%)
SW30-8040	300 (28)	6000 (23)	98.6	99.1
SW30HR-8040	300 (28)	4000 (15)	99.2	99.4
SW30HR-380	380 (35)	6000 (23)	99.4	99.6

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%.



### Operating Limits

Membrane Type .....	Thin-Film Composite
Maximum Operating Pressure .....	1015 psi (7.0 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 (30 min.) .....	1–12
Maximum Feed Flow .....	60 gpm (14 m <sup>3</sup> /h)
Maximum Feed Silt Density Index .....	SDI 5

Product	Single-Element Recovery (Permeate Flow to Feed Flow)	Dimensions – Inches (mm)		
		A	B	C
SW30-8040	0.10	40 (1,016)	1.125 (29)	7.9 (201)
SW30HR-8040	0.08	40 (1,016)	1.125 (29)	7.9 (201)
SW30HR-380	0.08	40 (1,016)	1.125 (29)	7.9 (201)

3. Consult most recent DESIGN GUIDELINES for multiple-element applications and recommended element recovery rates for various feed sources.
4. Element to fit 8.00-inch I.D. pressure vessel.

1 inch = 25.4 mm

\*Trademark of The Dow Chemical Company

## FILMTEC Membranes

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

North America . . . . . 1-800-447-4369  
Latin America . . . . . (+55) 11-5188-9345  
Europe . . . . . (+31) 20-691-6268  
Japan . . . . . (+81) 3-5460-2100  
Australia . . . . . (+61) 2-9776-3226  
<http://www.dow.com/liquidseps>

### 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.

**Notice:** No freedom from any patent owned by Seller or others is to be inferred. Because use conditions and applicable laws may differ from one location to another and may change with time, Customer is responsible for determining whether products and the information in this document are appropriate for Customer's use and for ensuring that Customer's workplace and disposal practices are in compliance with applicable laws and other governmental enactments. Seller assumes no obligation or liability for the information in this document. NO WARRANTIES ARE GIVEN; ALL IMPLIED WARRANTIES OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE ARE EXPRESSLY EXCLUDED.

Published March 1998.



\*Trademark of The Dow Chemical Company

Form No. 609-00226-398XQRP  
CH 172-191-E-398R