

Product Data Sheet

FilmTec[™] SW30XHR-400i Element

Seawater Reverse Osmosis Element with iLEC™ Interlocking Endcaps

Description	DuPont Water Solutions offers various premium seawater reverse osmosis (RO) elements designed to produce high quality water which may reduce capital and operation cost of seawater RO systems. These products combine premium membrane performance with automated precision fabrication to provide reliable and consistent performance.					
	 FilmTec[™] SW30XHR-400i Elements are the highest rejection seawater RO elements in the FilmTec[™] Element portfolio, enabling stringent water quality requirements to be met with single-pass seawater systems in most situations. Benefits of the FilmTec[™] SW30XHR-400i Element include: Very high NaCl and boron rejection to help meet World Health Organization (WHO) and other drinking water standards more cost effectively. Utilization of the distinct iLEC[™] Interlocking Endcaps that help reduce system operating costs and reduce the risk of O-ring leaks that cause poor water quality. Guaranteed active area of 400 ft² maximizes productivity and enables accurate and predictable system design and operating flux. Effective use in permeate staged seawater desalination systems without impairing the performance of the downstream stage. High performance over the operating lifetime without the use of oxidative posttreatments. FilmTec[™] Elements are more durable and may be cleaned over a wider pH range (1 – 13) than other RO elements. 					
Product Type	Spiral-wound element with polyamide thin-film composite membrane					

Typical Properties

	Feed Spacer							
	Active Area		Thickness	Permeate	Flowrate	Stabilized Boron	Stabilized Salt	
FilmTec™ Element	(ft ²)	(m²)	(mil)	(gpd)	(m ³ /d)	Rejection (%)	Rejection (%)	
SW30XHR-400i	400	37	28	6,000	23	93	99.82	

1. The above benchmark values are based on the following test conditions: 32,000 ppm NaCl, 800 psi (5.5 MPa), 77°F (25°C), pH 8, 8% recovery.

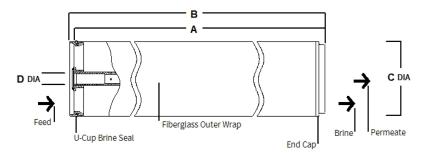
Permeate flows for individual elements may vary ± 15%. 2.

3. Minimum Salt Rejection is 99.70%.

4. Stabilized salt rejection is generally achieved within 24 - 48 hours of continuous use, depending upon feedwater characteristics and operating conditions.

 Product specifications may vary slightly as improvements are implemented.
 Active area guaranteed ± 5%. Active area as stated by DuPont Water Solutions is not comparable to the nominal membrane area figure often stated by some element suppliers.

Element Dimensions



	Dimensions	– inches (mr	n)			1 inc	h = 25.4 mm	
	Α		В			С	D	
FilmTec™ Element	(in)	(mm)	(in)	(mm)	(in)	(mm)	(in)	(mm)
SW30XHR-400i	40.0	1,016	40.5	1,029	7.9	201	1.125 ID	29 ID
	(Forr 2. Elem 3. Indiv	m No. 45-D0169 nent to fit nomina idual elements	Design Guideline: 95-en). al 8-inch (203-mr with iLEC™ Inter nents when conn	n) I.D. pressu locking Endc	ure vessel. aps measure	40.5 inches (gth (B). The r
Operating and	Maximum	Operating Ter	nperature ^{a, b}	113°F (45	°C)			
Cleaning Limits	Maximum	Operating Pre	ssure ^b	1,200 psig	g (83 bar)			
	Maximum	Element Pres	sure Drop	15 psig (1	.0 bar)			
	pH Range	;						
	Continu	uous Operatior	l a	2–11				
	Short-te	Short-term Cleaning (30 min) ^c						
	Maximum Feed Silt Density Index (Sl			SDI 5				
	Free Chlo	Free Chlorine Tolerance ^d						
	c. Refe d. Unde mem reco	er certain condit Ibrane failure. S mmends remov	n FilmTec [™] Clea ions, the presence ince oxidation da ing residual free chlorinating Feec	e of free chlo mage is not o chlorine by pr	orine and othe covered unde retreatment p	er oxidizing ag er warranty, Du rior to membr	ents will cause p Pont Water Solu ane exposure. Pl	remature tions
Additional Important Information	 Before use or storage, review these additional resources for important information: Usage Guidelines for FilmTec[™] 8" Elements (Form No. 45-D01706-en) Start-Up Sequence (Form No. 45-D01609-en) Storage and Shipping of New FilmTec[™] Elements (Form No. 45-D01633-en) 							
Product Stewardship	DuPont has a fundamental concern for all who make, distribute, and use its products, and for the environment in which we live. This concern is the basis for our product stewardship philosophy by which we assess the safety, health, and environmental information on our products and then take appropriate steps to protect employee and public health and our environment. The success of our product stewardship program rests with each and every individual involved with DuPont products—from the initial concept and research, to manufacture, use, sale, disposal, and recycle of each product.							

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	 Please be aware of the following: 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. Permeate obtained from the first hour of operation should be discarded. 				
Regulatory Note	This product may be subject to drinking water application restrictions in some countries; please check the application status before use and sale.				

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