

Product Data Sheet



FilmTec[™] BW30-400 Membranes

High Rejection, High Surface Area Brackish Water RO Element

Description	 The FilmTec[™] BW30-400 is the product of choice when the highest quality permeate is required. It was the first 400 square foot membrane element on the market and continues to be widely used in new equipment and retrofits where system capital and productivity are factors. DuPont's superior automated manufacturing technology results in the most consistent performance element-to-element and year-after-year. FilmTec[™] BW30-400 Elements deliver high flow and high rejection without being chlorinated during the manufacturing process. This is one reason why FilmTec[™] Elements are more durable and may be cleaned over a wider pH range (pH 1-13) than other RO elements. With more than a decade of proven performance, FilmTec[™] BW30-400 is the product you can rely on for years of trouble-free operation.

Product Type Spiral-wound element with polyamide thin-film composite membrane

Typical Properties

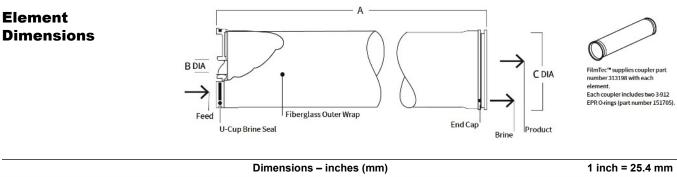
			Permeate flow		
	Active area	Feed spacer thickness	rate	Stabilized salt rejection	Minimum salt rejection
FilmTec™ Element	ft ² (m ²)	(mil)	gpd (m³/d)	(%)	(%)
BW30-400	400 (37)	28	10,500 (40)	99.5	99.0

1. Permeate flow and salt rejection based on the following standard conditions: 2,000 ppm NaCl, 225 psi (15.5 bar), 77°F (25°C), pH 8 and 15% recovery.

2. Flow rates for individual elements may vary but will be no more than 15% below the value shown.

3. Sales specifications may vary as design revisions take place.

4. Active area guaranteed +/-3%. Active area as stated by DuPont is not comparable to nominal membrane area often stated by some manufacturers.



FilmTec™ Element	Α	В	С
BW30-400	40.0 (1,016)	1.125 ID (29)	7.9 (201)

1. Refer to FilmTec[™] Design Guidelines for multiple-element systems of 8-inch elements

(Form No. 45-D01695-en) and recommended element recovery rates for various feed sources.

2. Element to fit nominal 8.0-inch (203 mm) I.D. pressure vessel.

Suggested	Membrane Type	Polyamide Thin-Film Composite	
Suggested	Maximum Operating Temperature ^a	113°F (45°C)	
Operating Conditions	Maximum Operating Pressure	600 psig (41 bar)	
Conditions	Maximum Pressure Drop	15 psig (1.0 bar)	
	pH Range		
	Continuous Operation ^a	2 - 11	
	Short-Term Cleaning (30 min.) ^b	1 - 13	
	Maximum Feed Flow	70 gpm (15.9 m ³ /hr)	
	Maximum Feed Silt Density Index	SDI 5	
	Free Chlorine Tolerance ^c	< 0.1 ppm	
	 b. Refer to FilmTec[™] Cleaning Gu c. Under certain conditions, the pre membrane failure. Since oxidati 	esence of free chlorine and other oxidiz ion damage is not covered under warra tment prior to membrane exposure. Pl	zing agents will cause premature
Important Information	Proper start-up of reverse os membranes for operating ser overfeeding or hydraulic show ensure that system operating system water quality and proc	vice and to prevent membrar ck. Following the proper star parameters conform to desig	ne damage due to t-up sequence also helps gn specifications so that
	Before initiating system start- membrane elements, instrum completed. Please refer to the application	nent calibration and other sys	tem checks should be
	(Form No. 45-D01609-en) for		
Operation Guidelines	•	ner sequences to prevent pos ange from a standstill to oper I be increased gradually over	ssible membrane damage. ating state is recommended
General Information	Warranty (Form No. 45-D0 • To prevent biological grow	delines given in this bulletin a psis and Nanofiltration Three- 00903-en) will be null and voi with during prolonged system rane elements be immersed onsible for the effects of incom across an entire pressure ves	Year Prorated Limited id. shutdowns, it is in a preservative solution. mpatible chemicals and

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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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