

Product Data Sheet

## FilmTec<sup>™</sup> BW30-400 Membranes

High Rejection, High Surface Area Brackish Water RO Element

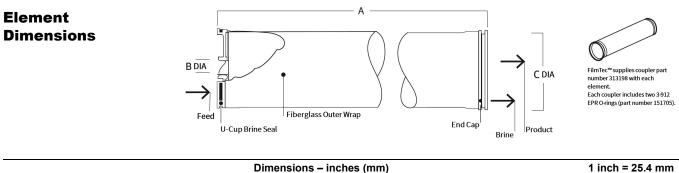
Description		<ul> <li>The FilmTec<sup>™</sup> BW30-400 is the product of choice when the highest quality permeate is required. It was the first 400 square foot membrane element on the market and continues to be widely used in new equipment and retrofits where system capital and productivity are factors.</li> <li>DuPont's superior automated manufacturing technology results in the most consistent performance element-to-element and year-after-year.</li> <li>FilmTec<sup>™</sup> BW30-400 Elements deliver high flow and high rejection without being chlorinated during the manufacturing process. This is one reason why FilmTec<sup>™</sup> Elements are more durable and may be cleaned over a wider pH range (pH 1-13) than other RO elements.</li> <li>With more than a decade of proven performance, FilmTec<sup>™</sup> BW30-400 is the product you can rely on for years of trouble-free operation.</li> </ul>				
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 <sup>2</sup> (m <sup>2</sup> )	(mil)	gpd (m <sup>3</sup> /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.



	Dimensions – Inches (mm)		1 incn = 25.4 mm
FilmTec™ Element	Α	В	С
BW30-400	40.0 (1,016)	1.125 ID (29)	7.9 (201)

1. Refer to FilmTec<sup>™</sup> 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.

Gummaatad	Membrane Type	Polyamide Thin-Film Composite			
Suggested	Maximum Operating Temperature <sup>a</sup>	113°F (45°C)			
Operating	Maximum Operating Pressure	600 psig (41 bar)			
Conditions	Maximum Pressure Drop	15 psig (1.0 bar)			
	pH Range				
	Continuous Operation <sup>a</sup>	2 - 11			
	Short-Term Cleaning (30 min.) <sup>b</sup>	1 - 13			
	Maximum Feed Flow	70 gpm (15.9 m³/hr)			
	Maximum Feed Silt Density Index	SDI 5			
	Free Chlorine Tolerance <sup>c</sup>	< 0.1 ppm			
	<ul> <li>b. Refer to FilmTec<sup>™</sup> Cleaning Gui</li> <li>c. Under certain conditions, the pre membrane failure. Since oxidati</li> </ul>	sence of free chlorine and other oxidiz on damage is not covered under warra ment prior to membrane exposure. Pl	ing agents will cause premature		
Important Information	Proper start-up of reverse osmosis water treatment systems is essential to prepare the membranes for operating service and to prevent membrane damage due to overfeeding or hydraulic shock. Following the proper start-up sequence also helps ensure that system operating parameters conform to design specifications so that system water quality and productivity goals can be achieved.				
	Before initiating system start- membrane elements, instrum completed. Please refer to the application (Form No. 45-D01609-en) for	ent calibration and other sys	tem checks should be		
Operation Guidelines		er sequences to prevent pos ange from a standstill to oper be increased gradually over	ssible membrane damage. ating state is recommended		
General Information	<ul> <li>Warranty (Form No. 45-D0</li> <li>To prevent biological grow</li> </ul>	lelines given in this bulletin an sis and Nanofiltration Three- 00903-en) will be null and voi th during prolonged systems rane elements be immersed onsible for the effects of incom across an entire pressure ves	Year Prorated Limited d. shutdowns, it is in a preservative solution. mpatible chemicals and		

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Customer Notice	DuPont strongly encourages its customers to review both their manufacturing processes and their applications of DuPont products from the standpoint of human health and environmental quality to ensure that DuPont products are not used in ways for which they are not intended or tested. DuPont personnel are available to answer your questions and to provide reasonable technical support. DuPont product literature, including safety data sheets, should be consulted prior to use of DuPont products. Current safety data sheets are available from DuPont.
	<ul> <li>Please be aware of the following:</li> <li>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.</li> <li>Permeate obtained from the first hour of operation should be discarded.</li> </ul>
Regulatory Note	This product may be subject to drinking water application restrictions in some countries; please check the application status before use and sale.

## **PT WATERMART PERKASA**

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