

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 manufacture of the provention.
	product you can rely on for years of trouble-free operation.

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

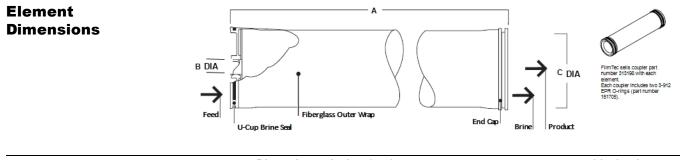
Typical Properties

		Active		Permeate flow		
FilmTec™	Part	area	Feed spacer	rate	Stabilized salt	Minimum salt
Element	number	ft ² (m ²)	thickness (mil)	gpd (m³/d)	rejection (%)	rejection (%)
BW30-400	98650	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 inch = 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[™] 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
Operating	Maximum Operating Temperature ^a	113°F (45°C)
Conditions	Maximum Operating Pressure Maximum Pressure Drop	600 psig (41 bar) 15 psig (1.0 bar)
	pH Range	15 psig (1.0 bar)
	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
	membrane failure. Since oxidation damage is no	96-en). lorine and other oxidizing agents will cause premature t covered under warranty, DuPont recommends removing mbrane exposure. Please refer to <u>Dechlorinating</u>
Important Information	Proper start-up of reverse osmosis water tre membranes for operating service and to pre or hydraulic shock. Following the proper sta system operating parameters conform to de quality and productivity goals can be achiev	vent membrane damage due to overfeeding art-up sequence also helps ensure that sign specifications so that system water
	Before initiating system start-up procedures membrane elements, instrument calibration completed.	
	Please refer to the application information li (Form No. 45-D01609-en) for more informat	
Operation Guidelines	shutdown, cleaning or other sequences to p start-up, a gradual change from a standstill follows: • Feed pressure should be increased	iations on the spiral elements during start-up, revent possible membrane damage. During to operating state is recommended as gradually over a 30-60 second time frame. point should be achieved gradually over 15-
	20 seconds.	
General Information	that membrane elements be immersed inThe customer is fully responsible for the lubricants on elements.	this bulletin are not strictly followed, the iltration Three-Year Prorated Limited be null and void. nged system shutdowns, it is recommended a preservative solution. effects of incompatible chemicals and e pressure vessel (housing) is 50 psi (3.4 bar).

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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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