

Product Data Sheet

FilmTec™ BW30HR-440i Element

Description

FilmTec™ BW30HR-440i Element is ideal for: reverse osmosis plant managers and operators dealing with controlled pre-treatment waters and seeking consistency, high performance, long element life, increase productivity, higher water quality coupled with outstanding fouling resistance and reduced footprint installations.

With proven performance, FilmTec™ BW30HR-440i:

- Delivers high quality permeate water while minimizing CAPEX and OPEX
- Offers increased active area with highly effective cleaning performance, robustness and durability due to its widest cleaning pH range (1-13) and chemical tolerance and the support of DuPont technical representatives
- Includes iLEC™ interlocking end caps, reducing system operating costs and the risk of o-ring leaks that can cause poor water quality

Product Type

Spiral-wound element with polyamide thin-film composite membrane

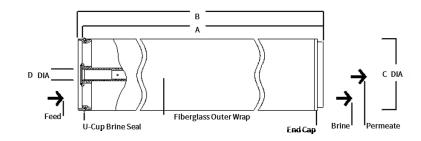
Typical Properties

Active Area		Feed Spacer	Permeate Flow Rate		Typical Stabilized	Minimum Salt	
FilmTec™ Element	(ft ²)	(m ²)	Thickness (mil)	(GPD)	(m ³ /d)	Salt Rejection (%)	Rejection (%)
BW30HR-440i	440	41	28	12,650	48	99.7	99.4

- 1. Permeate flow and salt (NaCl) rejection based on the following standard test conditions: 2,000 ppm NaCl, 225 psi (15.5 bar), 77°F (25°C), pH 8, 15% recovery.
- 2. Flow rates for individual elements may vary but will be no more than \pm 15%.
- 3. Stabilized salt rejection is generally achieved within 24-48 hours of continuous use; depending upon feedwater characteristics and operating conditions.
- 4. Sales specifications may vary as design revisions take place.
- 5. Active area guaranteed ± 3%. Active area as stated by DuPont Water Solutions is not comparable to nominal membrane area often stated by some manufacturers.

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Element Dimensions



	Dimensions	- inches (mm))				1 inc	h = 25.4 mm
	A		В		С		D	
FilmTec™ Element	(in.)	(mm)	(in.)	(mm)	(in.)	(mm)	(in.)	(mm)
BW30HR-440i	40.0	1,016	40.5	1,029	7.9	201	1.125 ID	29 ID

- Refer to FilmTec™ Design Guidelines for multiple-element systems of 8-inch elements (Form No. 45-D01695-en).
- 2. Element to fit nominal 8-inch (203-mm) I.D. pressure vessel.
- Individual elements with iLEC™ endcaps measure 40.5 inches (1,029 mm) in length (B). The net length (A) of the elements when connected is 40.0 inches (1,016 mm).

Operating and Cleaning Limits

Maximum Operating Temperature ^a	113°F (45°C)			
Maximum Operating Pressure	600 psig (41 bar)			
Maximum Element Pressure Drop	15 psig (1.0 bar)			
pH Range				
Continuous Operation ^a	2 – 11			
Short-Term Cleaning (30 min.) b	1 – 13			
Maximum Feed Silt Density Index (SDI)	SDI 5			
Free Chlorine Tolerance c	< 0.1 ppm			

- a. Maximum temperature for continuous operation above pH 10 is 95°F (35°C).
- b. Refer to FilmTec™ Cleaning Guidelines (Form No. 45-D01696-en).
- c. Under certain conditions, the presence of free chlorine and other oxidizing agents will cause premature membrane failure. Since oxidation damage is not covered under warranty, DuPont Water Solutions recommends removing residual free chlorine by pretreatment prior to membrane exposure. Please refer to Dechlorinating Feedwater (Form No. 45-D01569-en) for more information.

Additional Important Information

Product Stewardship

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)

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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.

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.

Regulatory Note

This product may be subject to drinking water application restrictions in some countries; please check the application status before use and sale.

Have a question? Contact us at:

www.dupont.com/water/contact-us

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