

Product Data Sheet



FilmTec™ Eco Pro-440 Element

Description	Ideal for: reverse osmosis plant managers and operators dealing with controlled pre-treatment waters and seeking advanced membrane treatment with high water purity and low energy consumption.
	 FilmTec[™] Eco Pro-440: Offers high salt-rejection at low pressure Delivers excellent silica, boron, nitrate, TOC and ammonium rejection Provides increased active area with the most 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
Product Type	Spiral-wound element with polyamide thin-film composite membrane

Typical Properties

FilmTec™	Active Area Feed Spacer Permea		Permeate	Flow Rate	Typical Stabilized Salt	Minimum Salt	
Element	(ft ²)	(m²)	Thickness (mil)	(GPD)	(m³/d)	Rejection (%)	Rejection (%)
Eco Pro-440	440	41	28	12,650	48	99.7	99.4

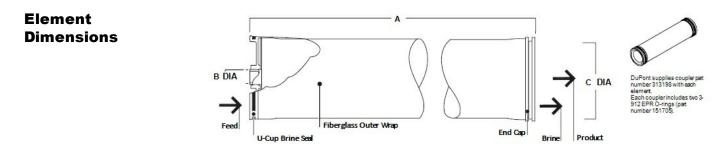
1. Permeate flow and salt (NaCl) rejection based on the following standard test conditions: 2,000 ppm NaCl, 150 psi (10.3 bar), 77°F (25°C), pH 8, 15% recovery.

2. Flow rates for individual elements may vary but will be no more than +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.



Dimensions – inches (mm)						1 inch = 25.4 mm	
		A		В		C	
FilmTec™ Element	(in.)	(mm)	(in.)	(mm)	(in.)	(mm)	
Eco Pro-440	40.0	1,016	1.125 ID	29 ID	7.9	201	

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

2. Element to fit nominal 8-inch (203-mm) I.D. pressure vessel.

Operating and Cleaning Limits

113°F (45°C)	
600 psig (41 bar)	
15 psig (1.0 bar)	
2-11	
1-13	
SDI5	
< 0.1 ppm	

a. Maximum temperature for continuous operation above pH 10 is 95°F (35°C).

b. Refer to 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

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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⁽Form No. 45-D01695-en).

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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. 				
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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