

Product Data Sheet

FilmTec[™] Eco Pro-440 Element

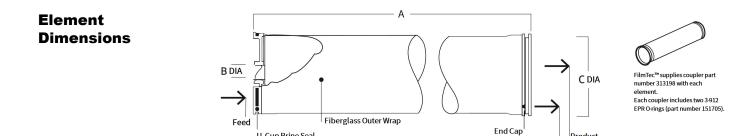
Description	Ideal for: reverse osmosis plant managers and operators dealing with controlled pre-treatment waters and seeking advanced membrane treatment with high water purity and low energy consumption.				
	 FilmTec[™] Eco Pro-440: Offers high salt-rejection at low pressure Delivers excellent silica, 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	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	

 Flow rates for individual elements may vary but will be no more than ±15%.
 Stabilized salt rejection is generally achieved within 24-48 hours of continuous use; depending upon feedwater characteristics and operating conditions.
 Sales specifications may vary as design revisions take place.
 Active area guaranteed ± 3%. Active area as stated by DuPont Water Solutions is not comparable to nominal

membrane area often stated by some manufacturers.



U-Cup Brine Seal

	Dimensions – ir	Dimensions – inches (mm)			1	inch = 25.4 mm	
	Α		В		I	С	
FilmTec™ Element	(in.)	(mm)	(in.)	(mm)	(in.)	(mm)	
Eco Pro-440	40.0	1,016	1.125 ID	29 ID	7.9	201	
	(Form No. 45	Tec™ Design Guideline 5-D01695-en). t nominal 8-inch (203-mr	· · ·		inch elements		
Operating and	Maximum Operat	Maximum Operating Temperature ^a 113°F (45°C)					
Cleaning Limits	Maximum Operat	ting Pressure	600 psig (41 ba	r)			
	Maximum Element Pressure Drop		15 psig (1.0 bai	-)			
	pH Range						
	Continuous Op	peration ^a	2–11				
	Short-Term Cle	eaning (30 min.) ^b	1 – 13				
	Maximum Feed S	Silt Density Index (SDI)	SDI 5				
	Free Chlorine To	lerance ^c	< 0.1 ppm				
Additional Important Information	b. Refer to Film c. Under certai membrane fa recommends <u>Dechlorinatin</u> Before use or s • <u>Usage</u>	mperature for continuous Tec™ Cleaning Guidelir n conditions, the presend ailure. Since oxidation da s removing residual free ng Feedwater (Form No. storage, review the Guidelines for Film p Sequence (Form	es (Form No. 45-E the of free chlorine a image is not covert chlorine by pretrea 45-D01569-en) for ese additional 1Tec [™] 8" Eler	001696-en). and other oxidizir ed under warrant tment prior to me more informatic resources fo <u>nents</u> (Form	g agents will caus y, DuPont Water S mbrane exposure n. r important int	Solutions Please refer to formation:	
Product Stewardship	DuPont has a fundamental concern for all who make, distribute, and use its products, ar for the environment in which we live. This concern is the basis for our product stewardsh philosophy by which we assess the safety, health, and environmental information on ou products and then take appropriate steps to protect employee and public health and our environment. The success of our product stewardship program rests with each and even individual involved with DuPont products—from the initial concept and research, to					t stewardship ation on our alth and our ch and every	

manufacture, use, sale, disposal, and recycle of each product.

Product

Brine

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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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