

Product Data Sheet

DuPont[™] TapTec[™] Membranes Large Commercial TapTec[™] LC HF 4040 Reverse Osmosis Elements

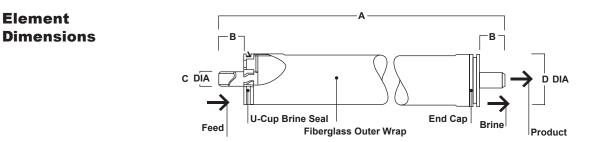
Description	DuPont [™] TapTec [™] LC HF 4040 is a product that is specially developed for commercial segments, such as drinking water applications that require high flow rate. DuPont's quality process enables the most consistent products in the industry that minimize the total cost of ownership of water treatment systems.		
	 TapTec[™] HF 4040 offers the following benefits: DuPont[™] TapTec[™], powered by more than 40 years of membrane innovation. Advanced membrane technologies can achieve ultra-high flow and good salt rejection. Proven consistency and reliability with quick stabilization. 		
Product Type	Spiral-wound element with polyamide thin-film composite membrane		

Typical Properties

Product	Feed Spacer Thickness (mil)	Average Permeate Flow Rate gpd (m ³ /d)	Min. Salt Rejection (%)	Stabilized Salt Rejection (%)
LC HF-4040	31	2800 (10.6)	98.5	99.0

Permeate flow and salt rejection based on the following test conditions: 1500 ppm NaCl, 77°F (25°C), 15% recovery, pH 7, and applied pressure 150 psig.
 Minimum permeate flow for individual elements no less than -15%.

- 3. For the purpose of improvement, specifications may be updated periodically.



	А	В	С	D
Product	Inches (mm)	Inches (mm)	Inches (mm)	Inches (mm)
LC HF-4040	40.00 (1016)	1.14 (29)	0.75 (19)	3.9 (99.5)

1. Refer to FilmTec[™] Design Guidelines for multiple-element systems of midsize elements (Form No. 45-D01588-en).

2. LC HR-4040 Elements fit nominal 4-inch I.D. pressure vessel.

Onereting and	Membrane type	PA	
Operating and Cleaning Limits	Maximum operating temperature	95°F (35°C)	
	Maximum operating pressure	300 psi (21 bar)	
	Maximum pressure drop	15 psi (1.0 bar)	
	Maximum feed flow rate, gpm (m ³ /h)	16 gpm (3.6 m ³ /h)	
	pHrange		
	Continuous operation	6-8	
	Maximum Feed Silt Density Index	5	
	Free chlorine concentration	< 0.1 ppm	
	a. Under certain conditions, the presence of free chlorine and other o membrane failure. Since oxidation damage is not covered under w residual free chlorine and other oxidants by pretreatment prior to m <u>Dechlorinating Feedwater</u> (Form No. 45-D01569-en) for more information.	arranty, DuPont recommends removing membrane exposure. Please refer to	
General Information	Proper start-up of reverse osmosis water treatment syste membranes for operating service and to prevent membrar or hydraulic shock. Following the proper start-up sequenc system operating parameters conform to design specifica quality and productivity goals can be achieved.	ne damage due to overfeeding e also helps ensure that	
	Before initiating system start-up procedures, membrane pretreatment, loading of the membrane elements, instrument calibration and other system checks should be completed.		
	Please refer to the application information literature entitle (Form No. 45-D01609-en) for more information.	ed <u>Start-Up Sequence</u>	
Operation Guidelines	Avoid any abrupt pressure or cross-flow variations on the shutdown, cleaning or other sequences to prevent possible start-up, a gradual change from a standstill to operating st follows: • Feed pressure should be increased gradually over • Cross-flow velocity at set operating point should be	le membrane damage. During ate is recommended as a 30 – 60 second time frame.	
	20 seconds.		
Important Information	Keep elements moist at all times after initial wetting.		
Information	If operating limits and guidelines given in this Product Bulletin are not strictly followed, the limited warranty in Form No. <u>45-D00903-en</u> will be null and void.		
	To prevent biological growth during prolonged system shu that membrane elements be immersed in a storage solution		
	The customer is fully responsible for the effects of incomponelements.	patible chemicals and lubricants	
	Maximum pressure drop across an entire pressure vessel	(housing) is 50 psi (3.4 bar).	
	Avoid static permeate-side backpressure at all times.		

Product Stewardship	DuPont has a fundamental concern for all who make, distribute, and use its products, and for the environment in which we live. This concern is the basis for our product stewardship philosophy by which we assess the safety, health, and environmental information on our 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 every individual involved with DuPont products—from the initial concept and research, to manufacture, use, sale, disposal, and recycle of each product.
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. 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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