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HYDRApro[®] 500 Series

The HYDRApro® 500 series is a unique set of spiral wound membranes customized specifically for industrial process applications. These membranes are based on existing Hydranautics high performance membrane products which have been specially designed to treat a variety of challenging industrial feed streams including high fouling, high temperature, or chemically aggressive feeds.

Products & Guidelines

Model		Area, ft ²	Feed Spacer, mil	Product Output, gpd (m ³ /d)	Rejection (Avg), %		
HYDRApro®501 series	501-2540	23		380 (1.4)	99.7		
	501-4040	70	34	1160 (4.4)			
	501-8040	320		5300 (20.0)			
HYDRApro®502 series	502-2540	23		500 (1.9)	99.5		
	502-4040	70	34	1530 (5.8)			
	502-8040	320		7000 (26.5)			
Туре	Configuration: Membrane Po	lymer:		Low Fouling Spiral Wound Composite Polyamide			
Application Data*	Maximum Applied Pressure: (see Chart 1 for detail) Maximum Chlorine Concentration: Maximum Operating Temperature: pH Range, Continuous (Cleaning): Maximum Feedwater Turbidity: Maximum Feedwater SDI (15 mins) Maximum Feed Flow for 2540 : Maximum Feed Flow for 4040 : Maximum Feed Flow for 8040 : Maximum Pressure Drop for Each Element:			600 psig (4.1 MPa) at 65 °C 200 psig (1.4 MPa) at 90 °C < 0.1 ppm Pressure dependent (see Chart 1 for detail) 2 –11 (1 –13)* 1.0 NTU 5.0 6 gpm (23 l/m) 16 gpm (3.6 m ³ /h) 75 gpm (17 m ³ /h) 15 nsi			

*Limitations shown here are for general use. For specific projects, operating at more conservative values may ensure the best performance and longest life of the membrane. See Hydranautics Technical Service Bulletin TSB107 for more details on operation limits, cleaning pH, and cleaning temperatures.

Performance Conditions

Performance is from after 30 minutes of operation, in the following conditions:

	HYDR 32000 800 ps 77 °F 15% F 6.5 – 7	Apro® 501 ppm NaCl solutions (5.5 MPa) Applions (25 °C) Operating Permeate Recover 7.0 pH Range	on ied Pressure g Temperature ry	HYDRApro® 502 1500 ppm NaCl solution 225 psi (1.55 MPa) 77 °F (25 °C) Operating Temperature 15% Permeate Recovery 6.5 – 7.0 pH Range					
2540, 4040				8040					
	A, inches(mm)	B, inches(mm)	C, inches(mm)		A, inches(mm)	B, inches(mm)	C, inches(mm)		
2540	40 (1016)	2.4 (61)	0.75 (19.05)		40 (1016)	7.89 (200.0)	1.125 (28.6)		
4040	40 (1016)	3.95 (100.3)	0.75 (19.05)						

Core Tube Extension = 1.05" (26.7 mm)

Notice: Elements are enclosed in a sealed polyethylene bag containing less than 1.0% sodium meta-bisulfite solution, and then packaged in a cardboard box. All membrane elements are supplied with a brine seal, interconnector, and o-rings. Element may be tested at conditions other than stated test condition.

Hydranautics believes the information and data contained herein to be accurate and useful. The information and data are offered in good faith, but without guarantee, as conditions and methods of use of our products are beyond our control. Hydranautics assumes no liability for results obtained or damages incurred through the application of the presented information and data. It is the user's responsibility to determine the appropriateness of Hydranautics' products for the user's specific end uses.







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