

## SuPRO – Microfiltration Elements

Highly permeable, high-rejection polysulfone microfiltration crossflow elements designed from 300,000 to 500,000 Dalton (0.1 micron) membrane to clarify saccharification liquor and other intermediate starch process streams. Other applications include: clarification of enzyme streams, broth, fruit and vegetable juices, vinegar, and wine. All membrane is tested for compliance with flux standards, and 100% of elements are vacuum-decay-tested to ensure performance integrity.

All SuPRO membrane components conform to FDA regulation CFR Title 21 and 3A Sanitary Standards for Crossflow Membrane Modules, Number 45-01, Section C.

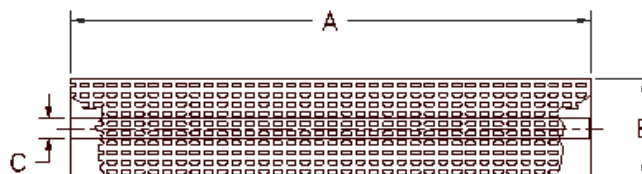
### Products & Guidelines:

Model	Feed Spacer, inches (cm)	Area, ft <sup>2</sup> (m <sup>2</sup> )	Dimensions, inches. (cm)			Max. Feed Flow, GPM (m <sup>3</sup> /hr)	Max. Pressure Drop per Element, psi (MPa)
			A	B	C		
SuPRO 8338-60	0.060 (0.152)	222 (20.5)	38.0 (96.5)	8.35 (21.2)	1.138 (2.89)	250 (57)	15 (0.1)
SuPRO 8338-80	0.080 (0.203)	184 (17.0)	38.0 (96.5)	8.35 (21.2)	1.138 (2.89)	250 (57)	15 (0.1)
SuPRO 8338-100	0.100 (0.254)	155 (14.3)	38.0 (96.5)	8.35 (21.2)	1.138 (2.89)	350 (79)	15 (0.1)

Other dimensional and feed spacer sizes are available upon request

Type	Configuration:	Sanitary spiral wound element with net-type outer wrapping
	Membrane Polymer:	Polysulfone with nonwoven PET backing material
	Core tube:	Polysulfone

Application Data	Maximum Applied Pressure:	200 psig (13.8 bar)
	Maximum Chlorine Concentration (at pH >10.5):	200 PPM
	Maximum Operating Temperature:	158 °F (70 °C)
	Operating pH Range:	3.0 - 10.0
	Cleaning pH Range:	2.0 - 11.0
	Maximum Pressure Drop per vessel (4 in series)	60 psi (4.1 bar)



**Notice:** Anti-telescoping devices and interconnectors are supplied by end-user. Elements are vacuum-sealed in a polyethylene bag containing less than 1.0% sodium metabisulfite solution, and then packaged in a cardboard box. 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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