

# HYDRACoRe50

Hydranautics' HydraCoRe50 product is a chemical and oxidant-resistant composite nanofiltration element which is designed to reject organic species with a nominal molecular weight of 1000 or greater. Applications include: color separations and adjustments in juices, sauces, and food extracts; amino acid production; concentration of fish, meat, and vegetable extracts for seasoning manufacturing; and concentration of oligosaccharides.

All products are USDA-accepted. Components conform to FDA regulation CFR Title 21 and "3A Sanitary Standards for Cross flow Membrane Modules, Number 45-01, Section C".

## Products & Guidelines:

Sizes	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 (bar)
			A	B	C		
3838-30	0.030 (0.076)	80 (7.4)	38.0 (96.5)	3.78 (9.60)	0.83 (2.11)	30 (6.9)	15 (1.0)
3838-46	0.046 (0.117)	60 (5.6)	38.0 (96.5)	3.78 (9.60)	0.83 (2.11)	30 (6.9)	15 (1.0)
3838-65	0.065 (0.165)	50 (4.5)	38.0 (96.5)	3.78 (9.60)	0.83 (2.11)	30 (6.9)	15 (1.0)
8038-30	0.030 (0.076)	360 (32)	38.0 (96.5)	7.90 (20.1)	1.125 (2.86)	80 (18.2)	13 (0.9)
8038-46	0.046 (0.117)	280 (26)	38.0 (96.5)	7.90 (20.1)	1.125 (2.86)	80 (18.2)	13 (0.9)
8038-65	0.065 (0.165)	215 (20)	38.0 (96.5)	7.90 (20.1)	1.125 (2.86)	80 (18.2)	13 (0.9)
8040-30	0.030 (0.076)	360 (32)	40.0 (106)	7.90 (20.1)	1.125 (2.86)	80 (22.7)	13 (0.9)
8040-46	0.046 (0.117)	280 (26)	40.0 (106)	7.90 (20.1)	1.125 (2.86)	80 (18.2)	13 (0.9)
8040-65	0.065 (0.165)	215 (20)	40.0 (106)	7.90 (20.1)	1.125 (2.86)	80 (18.2)	13 (0.9)

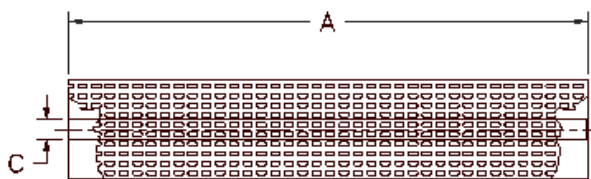
## Type

Configuration:	Sanitary (Full-Fit)
Outerwrap:	Polypropylene net wrap
Membrane Polymer:	Sulfonated Polyethersulfone
Molecular Weight Cut-off	1000 daltons

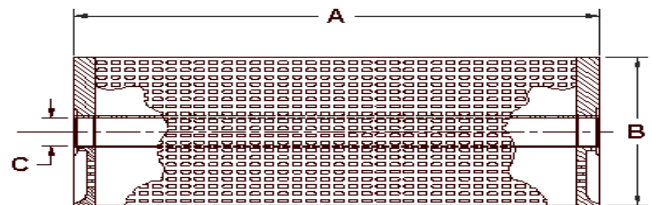
## Application Data

Maximum Applied Pressure:	600 psig (41 bar)
Maximum Continuous Chlorine Concentration:	10 ppm
Maximum Chlorine Concentration for Cleaning:	100 ppm
Maximum Operating Temperature:	140°F (60 °C)
Operating pH Range:	2.0 – 11.0
Cleaning pH Range:	1.0 – 12.0
Maximum Pressure Drop for a vessel	60 psi (4 bar)

3838, 8038 Style



8040 Style with ATDs



## Nomenclature = HydraCoRe50 + Size + Feed Spacer

**Notice:** Elements are vacuum-sealed in a polyethylene bag containing less than 1.0% sodium meta-bisulfite solution, and then packaged in a reinforced cardboard box. 8040 styles include interconnector assembly, ATDs and brine seals. 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.