

HYDRACoRe70pHT Series

High flux, approximate 600-700 Dalton MWCO thin film, chlorine-resistant nanofiltration membranes designed specifically for color removal as well as acid, caustic, and other chemical reclamation applications through the membrane's ability to reject color, proteins, fats, oils, and other macromolecular species. Conforms to FDA regulation CFR Title 21 Part 177, USDA 3-A Sanitary Standard 45-03. Kosher certified. Halal certified.

Specified Performance

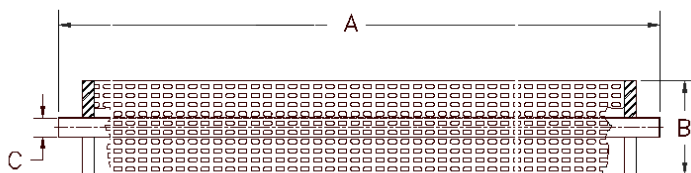
Model	Feed Spacer, inches (cm)	Area, ft ² (m ²)	Element Performance* Nominal		Max Feed Flow, gpm (m ³ /hr)	Max. Pressure Drop per Element, psi (MPa)
			GPD (m ³ /day)	% Rej		
HYDRACoRe70pHT 4040-46	0.046 (0.117)	70 (6.5)	1220 (4.6)	87	30 (6.8)	15 (0.10)
			760 (2.8)	83		
HYDRACoRe70pHT 8040-46	0.046 (0.117)	275 (25.5)	4800 (18.2)	87	80 (18.2)	13 (0.09)
			3000 (11.4)	83		

* Element performance is at 165 psig (1.13 MPa), 500 mg/L NaCl, 15% recovery, 77°F (25 °C)

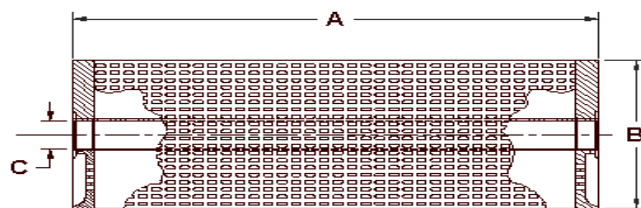
General Product Description

Configuration: Sanitary Spiral Wound
 Membrane Polymer: Sulfonated Polyethersulfone

Packaging: All membrane elements are supplied with a brine seal, interconnector, and O-rings. For Halal installations do not use the brine seal. Elements are enclosed in a sealed polyethylene bag containing less than 1.0% sodium meta-bisulfite solution, and then packaged in a cardboard box.



Core tube extension = 1.05" (26.7 mm)
4040 Style



8040 Style with ATDs

	A, inches (mm)	B, inches (mm)	C, inches (mm)
4040	40.0 (1016)	3.98 (10110)	0.750 (19.1)
8040	40.0 (1016)	7.90 (201.0)	1.125 (28.6)

Product Use and Restrictions[^]

Maximum Applied Pressure: 600 psig (4.14 MPa)
 Maximum Continuous Chlorine Concentration¹: 10 ppm
 Maximum Chlorine Concentration for Cleaning¹: 100 ppm
 Maximum Operating Temperature: 158 °F (70°C)
 Operating and Cleaning pH Range: 1-14
 Maximum Pressure Drop for a vessel: 60 psi (0.41 mPa)

¹ Transition metals (Fe, Mn) should not be present in the water or on the membrane as these can accelerate detrimental reactions between the membrane and the oxidant.

[^] The 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 Bulletins for more details.

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