

# HYDRACoRe70pHT Series

High flux, 720 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.

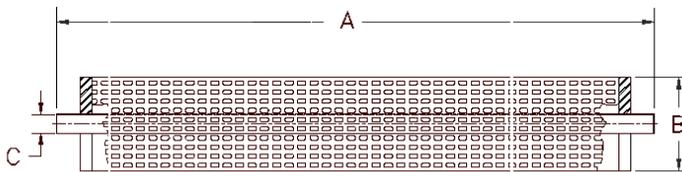
## Specified Performance

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 (bar)
			A	B	C		
HYDRACoRe70pHT <sup>1</sup> 4040-46	0.046 (0.12)	70 (6.5)	40.0 (101.6)	3.98 (10.1)	0.75 (1.9) OD	30 (6.8)	15 (1.0)
HYDRACoRe70pHT <sup>1</sup> 8040-46	0.046 (0.12)	275 (25.5)	40.0 (101.6)	7.90 (20.1)	1.125 (2.9) ID	80 (18.2)	13 (0.9)

## General Product Description

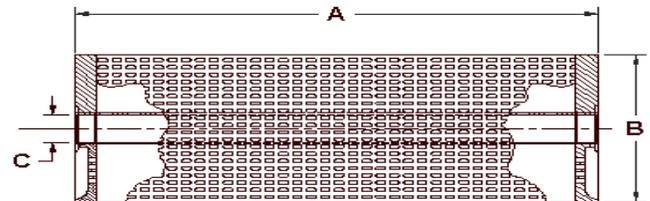
Configuration: Sanitary Spiral Wound  
 Membrane Polymer: Sulfonated Polyethersulfone

Packaging: All membrane elements are supplied with a brine seal, interconnector, and O-rings. 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

## Product Use and Restrictions<sup>^</sup>

Maximum Applied Pressure: 600 psig (41 bar)  
 Maximum Continuous Chlorine Concentration<sup>2</sup>: 10 ppm  
 Maximum Chlorine Concentration for Cleaning<sup>2</sup>: 100 ppm  
 Maximum Operating Temperature: 158 °F (70°C)  
 Operating pH Range: 1-13.5  
 Cleaning pH Range: 1-13.5  
 Maximum Pressure Drop for a vessel: 60 psi (4 bar)

<sup>1</sup> HYDRACoRe70pHT is not intended for use in drinking water or direct food contact applications.

<sup>2</sup> 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.

<sup>^</sup> 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 detail on operation limits, cleaning pH, and cleaning temperatures.

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