

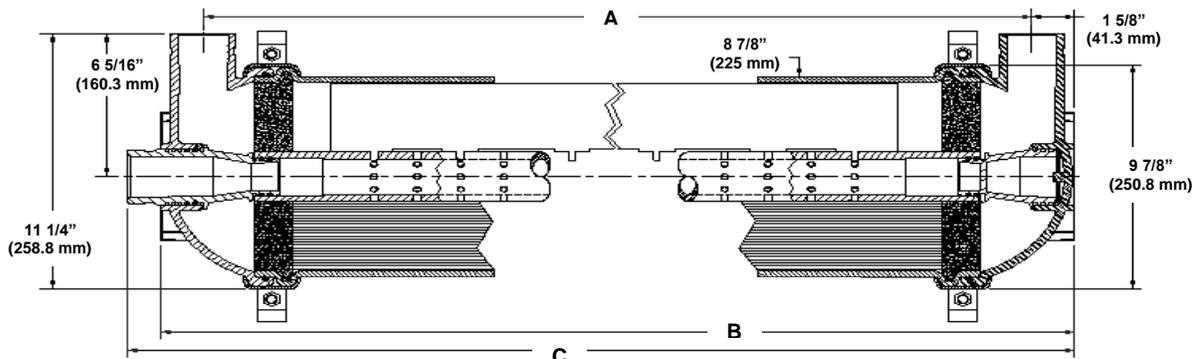
Capillary Ultrafiltration Module

HYDRAcap[®] 40

Performance[†]	Filtrate Flow: Filtrate Turbidity: Virus removal Bacteria removal	7.7 – 18.9 gpm (1.8 – 4.3 m ³ /h) ≤ 0.07 NTU ≥ 4 log ≥ 4 log
Type	Configuration: Membrane Polymer: Nominal Membrane Area: Fiber Dimensions: Pore size:	Capillary Ultrafiltration Module Hydrophilic Polyethersulfone 320 ft ² (30 m ²) ID 0.031" (0.8 mm), OD 0.055" (1.4 mm) 0.02 micron
Application Data[‡]	Typical Filtrate Flux Range: Maximum Applied Feed Pressure: Maximum Transmembrane Pressure: Maximum Backwash Transmembrane Pressure: Instantaneous Chlorine Tolerance: Instantaneous Hydrogen Peroxide Tolerance: Maximum Chlorine Exposure: Maximum Instantaneous Feed Turbidity: Maximum Operating Temperature: pH Operating Range: Cleaning pH Range: Operating Mode:	35 – 85 gfd (59 – 145 l/m ² /h) 73 psig (5 bar) [*] 20 psig (1.4 bar) 20 psig (1.4 bar) 100 ppm ^{**} 200 ppm ^{**} 200,000 ppm-hrs 100 NTU 104 °F (40 °C) 4.0 - 10.0 1.5 – 13.0 Inside to Outside Filtration Direct flow or Crossflow

Typical Process Conditions

Backwash Flux:	100 – 150 gfd (170 – 255 l/m ² /h)
Backwash Duration:	30 – 60 seconds
Backwash Frequency:	20 – 60 minutes
Chemical Enhanced Backwash Frequency:	0 – 4 times per day
Chemical Enhanced Backwash Duration:	1 – 30 minutes
Disinfection Chemicals:	NaOCl, H ₂ O ₂ , ClO ₂ or NH ₂ Cl
Cleaning Chemicals:	NaOH, HCl, H ₂ SO ₄ , or Citric Acid



A, inches (mm)	B, inches (mm)	C, inches (mm)	Pipe connections	Weight, lbs. (kg) ave.
43 (1092)	46 1/8 (1172)	47 1/4 (1200)	2" Victaulic	63 (28)

Certifications: NSF61, CDPH, and ETV-NSF Verification

^{*} At 68°F (20°C).

^{**} For 15 minutes or less.

[†] Typical module performance for most feedwaters.

[‡] The limitations shown here are for general use. The values may be more conservative for specific projects to ensure the best performance and longest life of the membrane.

Notice: Weight stated is shipping weight including 1L of a 0.95% solution of sodium bisulfite preservative. Hydranautics also offers HYDRAcap[®]40-NON, which is a dummy module with no potting or fiber.

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1/15/14



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