

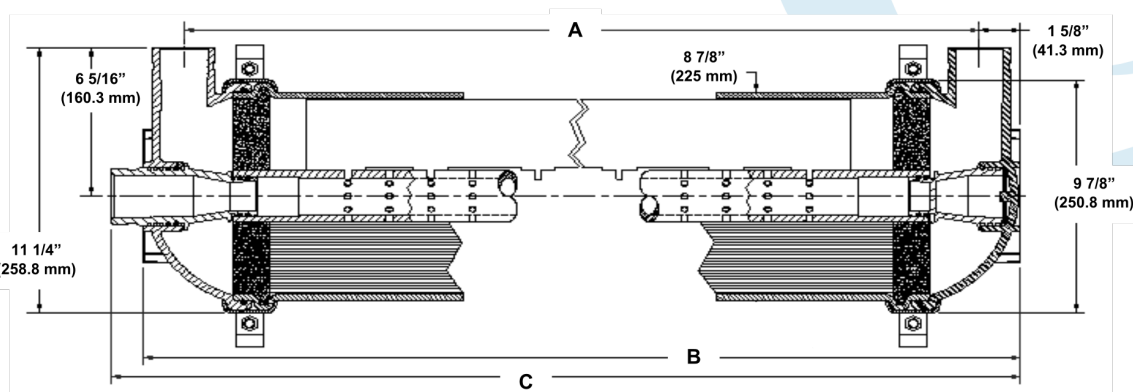
Capillary Ultrafiltration Module

HYDRAcap® 40-LD

Performance[†]	Filtrate Flow:	5 – 12.3 gpm (1.1 – 2.8 m ³ /h)
	Filtrate Turbidity:	≤ 0.07 NTU
	Virus removal	≥ 4 log
	Bacteria removal	≥ 4 log
Type	Configuration:	Capillary Ultrafiltration Module
	Membrane Polymer:	Hydrophilic Polyethersulfone
	Nominal Membrane Area:	208 ft ² (19.3 m ²)
	Fiber Dimensions:	ID 0.047" (1.2 mm), OD 0.08" (2.0 mm)
	Pore size:	0.02 micron
Application Data[‡]	Typical Filtrate Flux Range:	35 – 85 gfd (59 – 145 l/m ² /h)
	Maximum Applied Feed Pressure:	73 psig (5 bar) [*]
	Maximum Transmembrane Pressure:	20 psig (1.4 bar)
	Maximum Backwash Transmembrane Pressure:	20 psig (1.4 bar)
	Instantaneous Chlorine Tolerance:	100 ppm ^{**}
	Instantaneous Hydrogen Peroxide Tolerance:	200 ppm ^{**}
	Maximum Chlorine Exposure:	100,000 ppm-hrs
	Maximum Instantaneous Feed Turbidity:	200 NTU
	Maximum Operating Temperature:	104 °F (40 °C)
	pH Operating Range:	4.0 - 10.0
	Cleaning pH Range:	1.5 – 13.0
	Operating Mode:	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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