

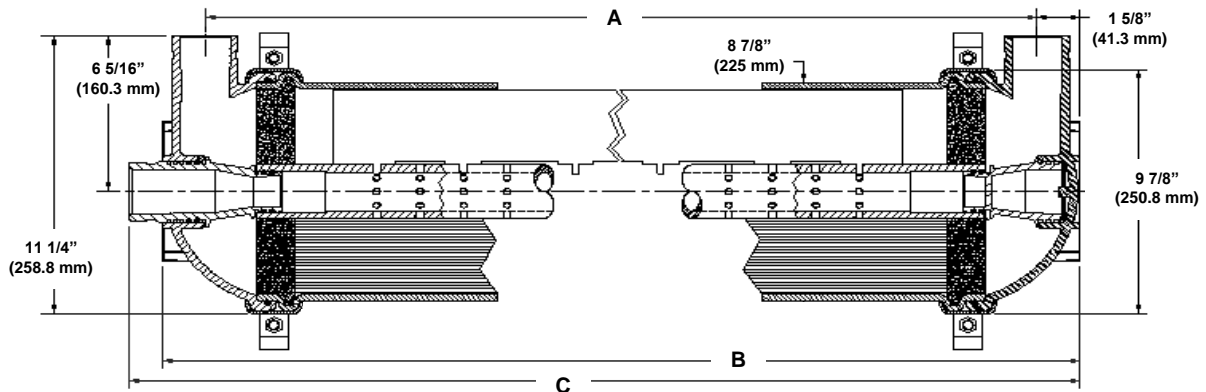
## Capillary Ultrafiltration Module

## HYDRAcap<sup>®</sup> 40-LD

<b>Performance<sup>†</sup></b>	Filtrate Flow: Filtrate Turbidity: Virus removal Bacteria removal	5 – 12.3 gpm (1.1 – 2.8 m <sup>3</sup> /h) ≤ 0.07 NTU ≥ 4 log ≥ 4 log
<b>Type</b>	Configuration: Membrane Polymer: Nominal Membrane Area: Fiber Dimensions: Pore size:	Capillary Ultrafiltration Module Hydrophilic Polyethersulfone 208 ft <sup>2</sup> (19.3 m <sup>2</sup> ) ID 0.047" (1.2 mm), OD 0.08" (2.0 mm) 0.02 micron
<b>Application Data<sup>‡</sup></b>	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 <sup>2</sup> /h) 73 psig (5 bar) 20 psig (1.4 bar) 20 psig (1.4 bar) 100 ppm 200 ppm 100,000 ppm-hrs 200 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 <sup>2</sup> /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 <sub>2</sub> O <sub>2</sub> , ClO <sub>2</sub> or NH <sub>2</sub> Cl
Cleaning Chemicals:	NaOH, HCl, H <sub>2</sub> SO <sub>4</sub> , 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

<sup>†</sup> At 68°F (20°C).

<sup>\*\*</sup> For 15 minutes or less.

<sup>†</sup> Typical module performance for most feedwaters.

<sup>‡</sup> 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<sup>®</sup>40-NON, which is a dummy module with no potting or fiber.

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