

Membrane Element

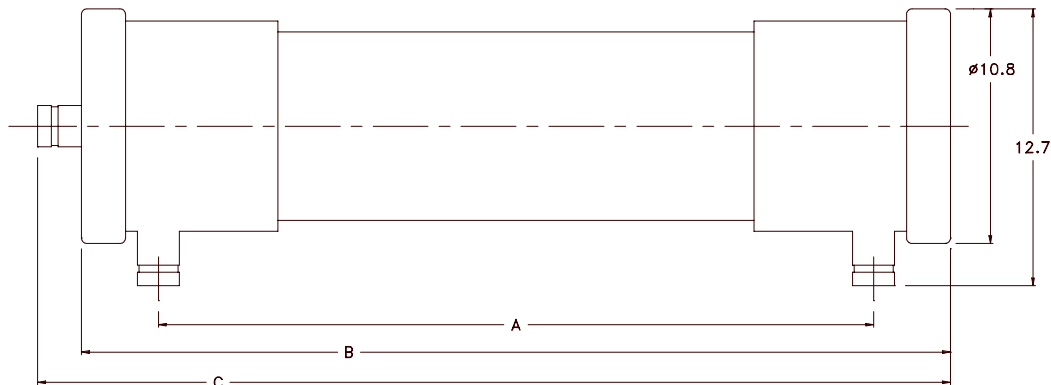
HYDRAcap60 DWI-B

Performance:	Filtrate Flow:	9 – 25 gpm (2.1 – 5.6 m ³ /h)
	Filtrate Turbidity:	<0.1 NTU*
	Particles > 2 µm removal:	>4 log
	Virus removal:	> 4 log
	Bacteria removal:	> 4 log
TOC Reduction:	0 – 50% [†]	
Type	Configuration:	Self-Encapsulated Capillary Ultrafiltration module (Inside - out)
	Membrane Polymer:	Hydrophilic polyether sulfone
	MWCO, nominal:	150,000 Daltons
	Nominal Membrane Area:	420 ft ² (39 m ²)
	Number of Fibers:	11,800
Fiber Dimensions:	ID 0.031" (0.8 mm), OD 0.051" (1.3 mm)	
Application Data	Typical Filtrate Flux Range:	35 – 85 gfd (59 – 145 l/m ² /h)
	Maximum Applied Feed Pressure:	45 psig (3 bar)
	Maximum Transmembrane Pressure:	30 psig (2bar)
	Instantaneous Chlorine Tolerance:	100 ppm
	Instantaneous Hydrogen Peroxide Tolerance:	1000 ppm
	Maximum Feed Turbidity:	100 NTU
	Maximum Operating Temperature:	104 °F (40 °C)
	pH Range:	2.0 - 13.0
Operating Mode:	Direct flow or Cross-flow, Backwashable	

Typical Process Conditions

Backwash Pressure:	35 psi (2.4 bar)
Backwash Flux:	175 – 200 gfd (298 – 340 l/m ² /h)
Backwash Duration:	30 – 60 sec
Chemical Enhanced Backwash Frequency:	min. 1 – 2 day ⁻¹ , max. every backwash
Chemical Enhanced Backwash Duration:	1 – 10 minutes
Disinfections Chemicals:	NaOCl or H ₂ O ₂ ‡
Cleaning Chemicals:	Citric Acid, NaOH/ NaOCl or NaOH/ H ₂ O ₂

Certifications DWI (UK), CADHS and ETV-NSF Verification



A, inches (mm)	B, inches (mm)	C, inches (mm)	Feed connector	Filtrate connector	Dry Weight, lbs. (kg)
63 (1600)	66 ⁷ / ₈ " (1753)	72 ¹ / ₈ " (1832)	2" Victaulic	1 ½ Victaulic	85 (38.6)

* - Typically. Tested on feed Turbidities up to 50 NTU.

† - Typically 0-10%, but can be as high as 50% with pretreatment

‡ - Other standard membrane cleaning solutions are also acceptable. Please contact Hydranautics Customer Service.

Notice: Elements are preserved in a solution containing 0.95% sodium bisulfite solution and 10% propylene glycol. This adds ~20lbs (10kg) to the dry weight.

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