

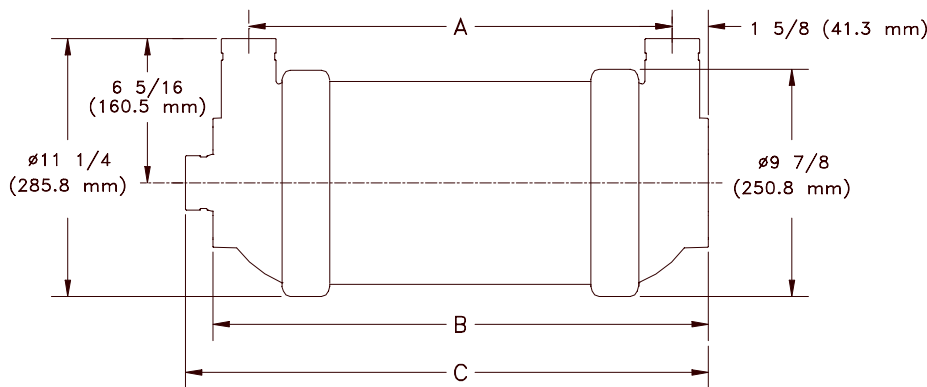
## Membrane Element

## HYDRAcap40-IND

<b>Performance:</b>	Filtrate Flow:	7 – 19 gpm (1.6 – 4.5 m <sup>3</sup> /h)
	Filtrate Turbidity:	<0.1 NTU*
	Particles > 2 µm removal	> 4 log
	Virus removal	> 4 log
	Bacteria removal	> 4 log
	TOC Reduction	0 – 50% <sup>†</sup>
<b>Type</b>	Configuration:	Self-Encapsulated Capillary Ultrafiltration module (Inside - out)
	Membrane Polymer:	Hydrophilic polyether sulfone
	MWCO, nominal	150,000 Daltons
	Nominal Membrane Area:	320 ft <sup>2</sup> (30 m <sup>2</sup> )
	Number of Fibers:	13,200
	Fiber Dimensions:	ID 0.031" (0.8 mm), OD 0.051" (1.3 mm)
<b>Application Data</b>	Typical Filtrate Flux Range:	35 – 85 gfd (59 – 145 l/m <sup>2</sup> /h)
	Maximum Applied Feed Pressure:	73 psig (5 bar)
	Maximum Trans Membrane Pressure	30 psig (2 bar)
	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	Directflow or Cross-flow, Backwashable

### Typical Process Conditions

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



### Certifications NSF 61, CADHS and ETV-NSF Verification

A, inches (mm)	B, inches (mm)	C, inches (mm)	Pipe connections	Dry Weight, lbs. (kg) ave.
43 (1092)	46 1/8 (1172)	47 1/4 (1200)	2" Victaulic	46 (20.9)

\* - 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. Hydranautics believes the information and data contained herein to be accurate and useful. The information and data are offered in good faith, but without guarantee, as conditions and methods of use of our products are beyond our control. Hydranautics assumes no liability for results obtained or damages incurred through the application of the presented information and data. It is the user's responsibility to determine the appropriateness of Hydranautics' products for the user's specific end uses. 8/30/01