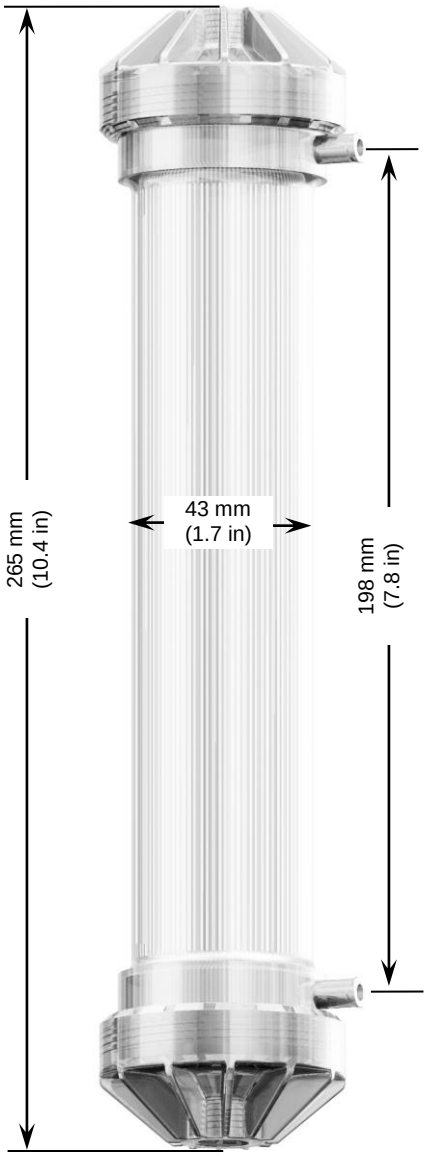
MiniModule™
MEMBRANE CONTACTORS

1.7 x 8.75 MiniModule™ PRODUCT DATA SHEET



Membrane Characteristics	
Cartridge Configuration	Parallel Flow. Lumenside Liquid Flow.
Liquid Flow Guidelines	<3000 ml/min
Membrane Type	X50 Fiber
Membrane/Potting Material	Polypropylene/Polyurethane
Typical Membrane Surface Area	0.9 m^2 Calculated based on inner diameter of hollow fiber
Priming Volume (approximate)	
Shellside	140 ml
Lumenside	70 ml
Pressure Guidelines*	
Maximum Lumenside <u>LIQUID</u> Working Temperature/ Pressure	5-20° C, 4.1 barg (41-68° F, 60 psig) 40° C, 2.1 barg (104° F, 30 psig)
* Note: Liquid pressure should always exceed gas pressure.	
Housing Options and Characteristics	
Material	Polycarbonate
Flange Connections	
Shellside (gas/vacuum)	Standard Female Luer Lock *Supplied with two ¼ inch Hosebarb adaptors which mate to ¼ inch ID tubing*
Lumenside (wetted surface)	1/4 inch FNPT
Seal Options	
Material	**Applications**
EPDM	All Purpose
Weight (approximate)	
Dry	186 grams
Shipping weight (max)	196 grams
Regulatory	
Complies with the limits as set by RoHS Directive 2011/65/EU Annex II; recasting 2002/95/EC. Constructed of FDA CFR title 21 compliant materials for wetted parts only at ambient temperatures.	

Note: All dimensions are nominal values. Refer to liqui-cel.com for detailed housing drawings.

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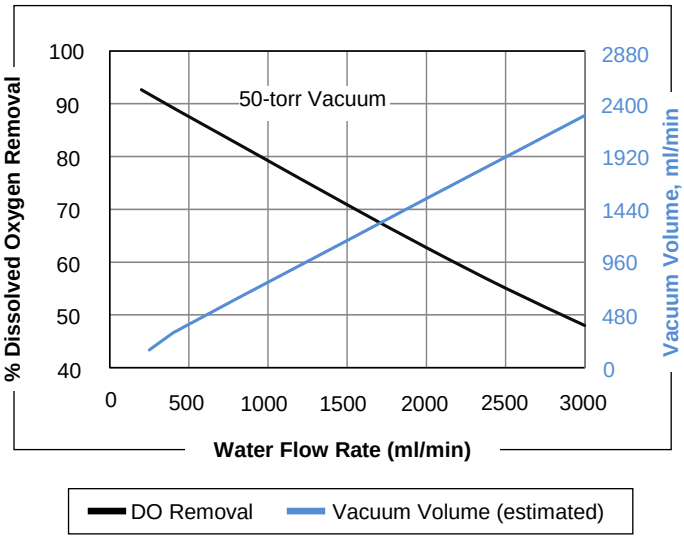

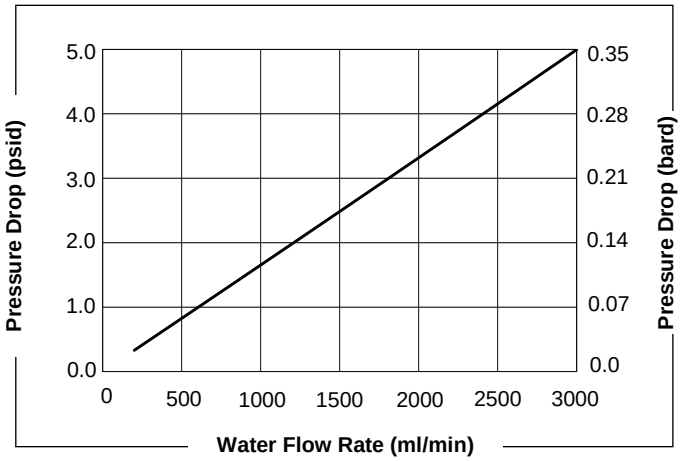

Curves represent nominal values, generated using water on the Lumenside at 20º C with 50 torr of vacuum drawn on both Shellside ports. The estimated vacuum volume guideline is based on a flow rate at 20º C, 50 Torr. Characteristics may change under different operating conditions.

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