

# 3M™ Liqui-Cel™ MM-1×5.5 Series Membrane Contactor

## Typical Properties

Membrane Characteristics	
Cartridge Configuration	Parallel Flow. Lumenside Liquid Flow.
Liquid Flow Guidelines	< 500 ml/min
Membrane Type	X50 Fibre
Membrane/Potting Material	Polypropylene/Polyurethane
Priming Volume (approximate)	
Shellside	25 ml
Lumenside	16 ml

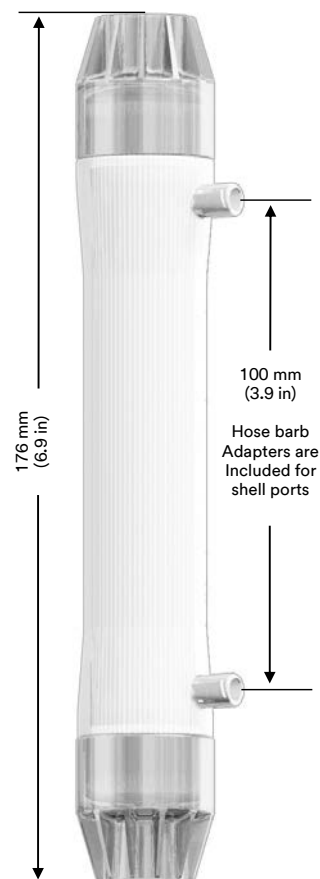
Pressure Guidelines*	
Maximum Lumenside <b>LIQUID</b>	5-20°C, 4.1 barg (41-68°F, 60 psig)
Working Temperature/ Pressure	40°C, 2.1 barg (104°F, 30 psig)

\* Note: Liquid pressure should always exceed gas pressure.

Housing Characteristics	
Material	Polycarbonate
Flange Connections	
Shellside (gas/vacuum)	Standard Female Luer Lock with Polycarbonate adaptors to ¼ inch Hosebarb
Lumenside (wetted surface)	¼ inch FNPT

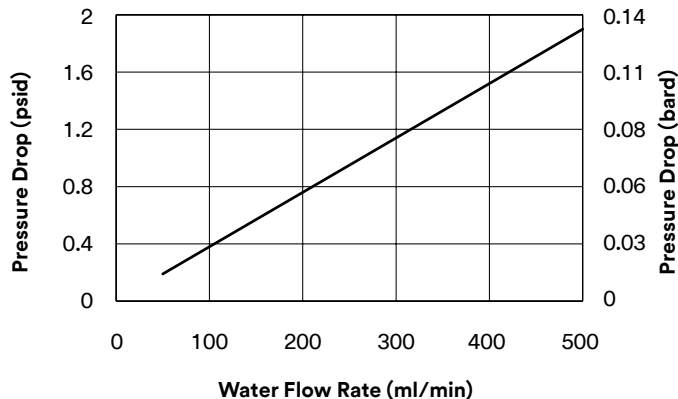
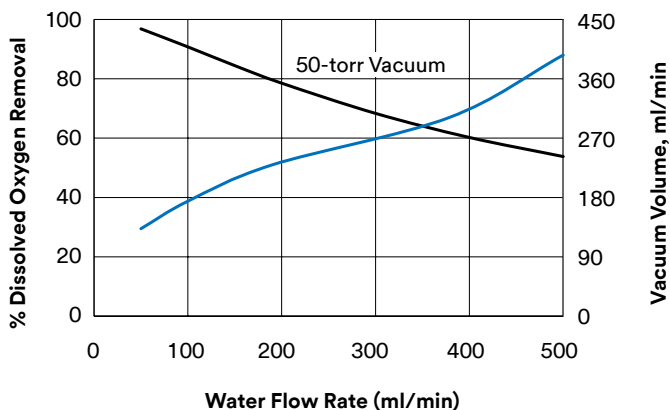
Weight (approximate)	
Dry	47 grams

Regulatory	
Complies with the limits as set by (EU) 2015/863 amending Annex II to the Restriction on Hazardous Substances (RoHS) Directive (2011/65/EU). 3M™ Liqui-Cel™ MM-1×5.5 Series Membrane Contactors are constructed of FDA Title 21 CFR § 174-186 compliant materials for wetted parts only at ambient temperatures.	



All dimensions are nominal values.  
See full housing drawing on  
[3M.ca/Liqui-Cel](http://3M.ca/Liqui-Cel) for  
additional details.

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— DO removal — Vacuum volume (estimated)

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

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