





**4** 85 mm

detailed housing drawings.

## 3M<sup>™</sup> Liqui-Cel<sup>™</sup> MM-1.7×10 Series Membrane Contactor

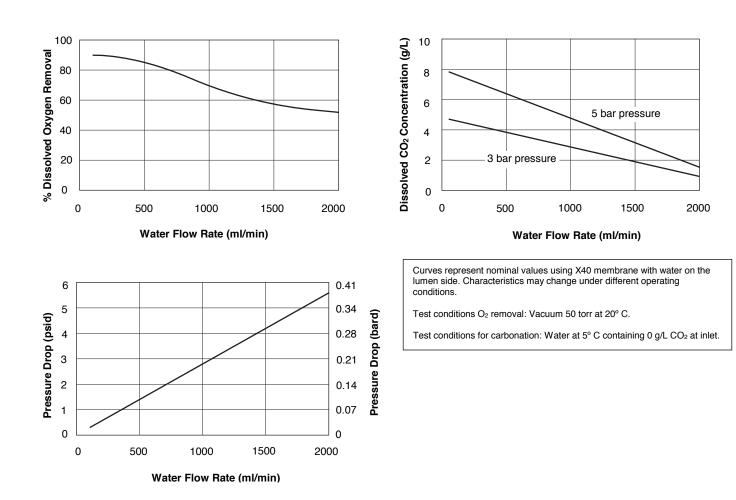
## **Typical Properties**

Membrane Characteristics	
Cartridge Configuration	Lumenside liquid flow
Liquid Flow Guidelines	<2000 ml/min
Membrane Type	X40 Fiber
	Recommended for carbonation, nitrogenation and other gasification applications. Can also be used for degassing applications.
Membrane/Potting Material	Polypropylene/Epoxy
Priming Volume (approximate)	
Shellside	161 ml
Lumenside	70 ml
Pressure Guidelines*	X50 or X40 Fiber
Maximum Lumenside <u>LIQUID</u> Working Temperature/ Pressure	5-20° C, 8 barg
Maximum Applied Shellside Gas Temperature/ Pressure	20° C, 6 barg
* Note: Liquid pressure (lumenside) should alv	ways exceed gas pressure (shellside).
Housing Options and Characterist	ics
Material	PVC
Flange Connections	
	5/16-inch John Guest®
Shellside (gas/vacuum)	Straight tube drain port
Lumenside (wetted surface)	5/16-inch John Guest®
Additional end cap rotation options: 20° rotat	ion of end cap A or 180° rotation of end cap B.
Weight (approximate)	
Dry	281g

Regulatory

Complies with the limits as set by RoHS Directive 2011/65/EU Annex II; recasting 2002/95/EC. CFR Title 21 compliant. FDA compliant for wetted parts only at ambient temperatures.

## 3M<sup>™</sup> Liqui-Cel<sup>™</sup> MM-1.7×10 Series Membrane Contactor



Technical Information: The technical information, recommendations and other statements contained in this document are based upon tests or experience that 3M believes are reliable, but the accuracy or completeness of such information is not guaranteed.

**Product Use:** Many factors beyond 3M's control and uniquely within user's knowledge and control can affect the use and performance of a 3M product in a particular application. Given the variety of factors that can affect the use and performance of a 3M product, user is solely responsible for evaluating the 3M product and determining whether it is fit for a particular purpose and suitable for user's method of application.

Warranty, Limited Remedy, and Disclaimer: Unless an additional warranty is specifically stated on the applicable 3M product packaging or product literature, 3M warrants that each 3M product meets the applicable 3M product specification at the time 3M ships the product. 3M MAKES NO OTHER WARRANTIES OR CONDITIONS, EXPRESS OR IMPLIED, INCLUDING, BUT NOT LIMITED TO, ANY IMPLIED WARRANTY OR CONDITION OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE OR ANY IMPLIED WARRANTY OR CONDITION ARISING OUT OF A COURSE OF DEALING, CUSTOM OR USAGE OF TRADE. If the 3M product does not conform to this warranty, then the sole and exclusive remedy is, at 3M's option, replacement of the 3M product or refund of the purchase price.

Limitation of Liability: Except where prohibited by law, 3M will not be liable for any loss or damage arising from the 3M product, whether direct, indirect, special, incidental or consequential, regardless of the legal theory asserted, including warranty, contract, negligence or strict liability.

3M and Liqui-Cel are trademarks of 3M Company. All other trademarks are the property of their respective owners. © 2017 3M Company. All rights reserved.



## LENNTECH

info@lenntech.com Tel. +31-152-610-900 www.lenntech.com Fax. +31-152-616-289



LC-1207 03/2017