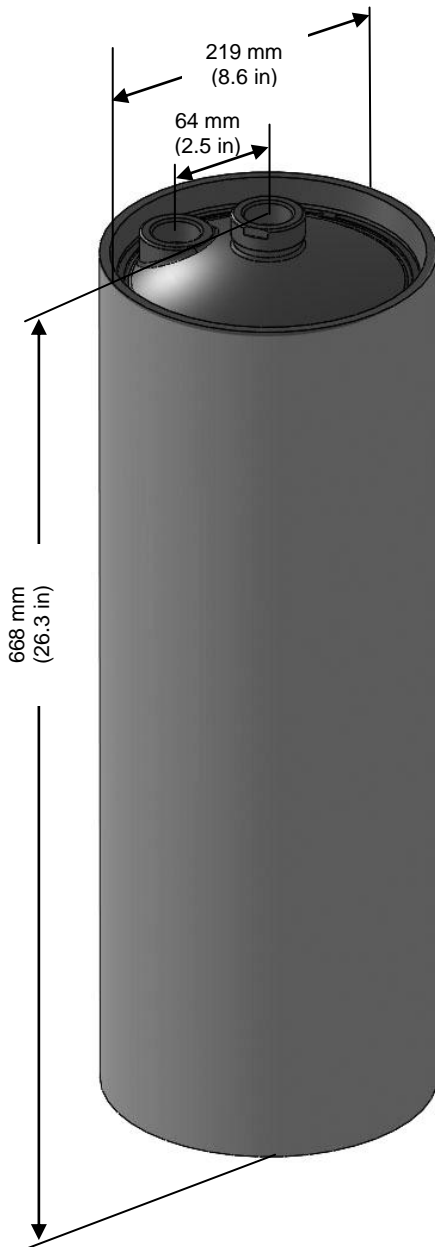


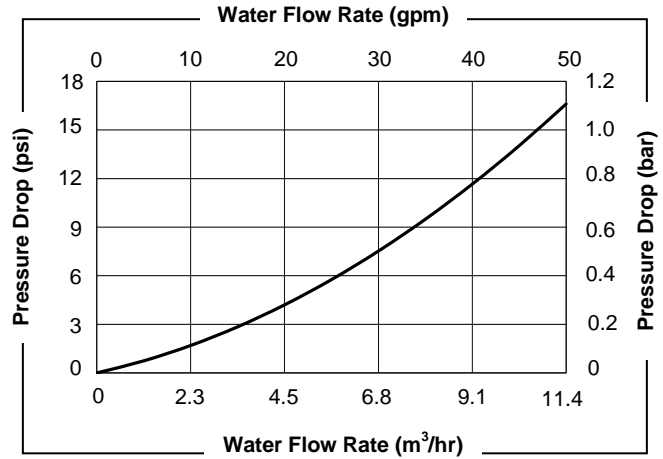
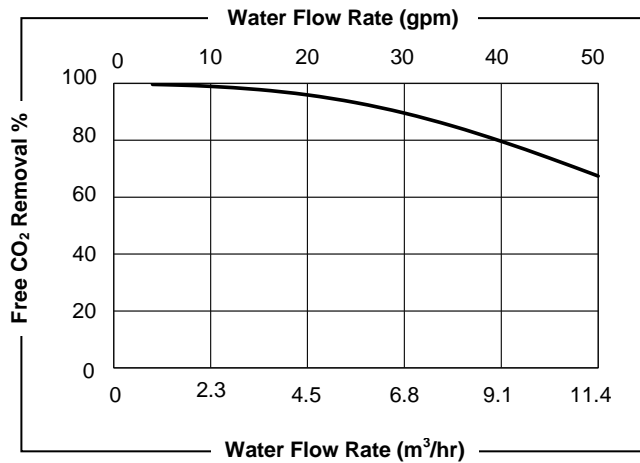
## 8 x 20 INDUSTRIAL EXTRA-FLOW PRODUCT DATA SHEET



| Membrane Characteristics  |   |
|---|---|
| Cartridge Configuration   | Extra-Flow with center baffle   |
| Liquid Flow Guidelines  | 1-11.4 m <sup>3</sup> /hr (5-50 gpm)  |
| Membrane Type   | <b>XIND Fiber</b>   |
|   | Recommended for CO <sub>2</sub> removal from liquid and other gas transfer applications   |
| Membrane/Potting Material   | Polypropylene / Epoxy   |
| Typical Membrane Surface Area   | 53 m <sup>2</sup> (570.5 ft <sup>2</sup> )  |
| Priming Volume  |   |
| Shellside   | 6.7 liters (1.8 gal)  |
| Lumenside   | 5.2 liters (1.4 gal)  |
| Pressure Guidelines   |   |
|   | <b>XIND</b>   |
| Maximum Shellside <u>LIQUID</u> Working Temperature/Pressure  | 25°C, 4.8 barg (77°F, 70 psig)<br>40°C, 2.1 barg (104°F, 30 psig)   |
| If no vacuum is used, 1.05 bar (15 psig) can be added to pressures above.   |   |
| Maximum Applied Gas Pressure  | 2.1 barg (30 psig)  |
| Max applied gas pressure is for integrity testing at ambient temperatures. Normal operating pressures are typically lower.  |   |
| See Operating Guide for complete listing of temp/pressure limits for housings and membrane.<br>Note: Liquid pressure should always exceed gas pressure.                             |   |
| Housing Options and Characteristics   |   |
| Material  | PVC housing<br>Engineering thermoplastic end caps   |
| Port Connections  |   |
| Shellside (Liquid Inlet/Outlet)   | <ul style="list-style-type: none"> <li>1 Inch Female NPT</li> <li>1.5 Inch Victaulic<sup>®</sup> Grooved Pipe</li> </ul> Note: both options are standard on 1 end cap |
| Lumenside   | <ul style="list-style-type: none"> <li>1 Inch Female NPT</li> </ul>   |
| Weight  |   |
| Dry   | 12.7 Kg (27.9 lbs)  |
| Liquid full (shellside)   | 19.3 Kg (42.7 lbs)  |
| Shipping weight   | 15.4 Kg (34.0 lbs)  |
| Regulatory  |   |
| Meets ROHS threshold limits. Complies with the PED 97/23/EC and is manufactured with sound engineering practice. Contactor is <b>NOT</b> manufactured with FDA compliant materials. |   |

**NOTE:** All dimensions are nominal values. See full housing drawing on website for additional details

## 8 x 20 INDUSTRIAL EXTRA-FLOW PRODUCT DATA SHEET



Curves represent nominal values using water at 25°C.  
Characteristics may change under different operating conditions.

Test conditions:  
CO<sub>2</sub> Removal: Air sweep mode at 5 scfm.

This product is to be used only by persons familiar with its use. It must be maintained within the stated limitations. All sales are subject to Seller's terms and conditions. Purchaser assumes all responsibility for the suitability and fitness for use as well as for the protection of the environment and for health and safety involving this product. Seller reserves the right to modify this document without prior notice. Check with your representative to verify the latest update. To the best of our knowledge, the information contained herein is accurate. However, neither Seller nor any of its affiliates assumes any liability whatsoever for the accuracy or completeness of the information contained herein. Determination of the suitability of any material and infringement of any third party rights, including patent, trademark, or copyright rights, are the sole responsibility of the user. Users of any substance should satisfy themselves by independent investigation that the material can be used safely. We may have described certain hazards, but we cannot guarantee that these are the only hazards that exist. Nothing herein shall be construed as a recommendation or license to use any information that conflicts with any patent, trademark or copyright of Seller or others. Please read our Operating Manuals carefully before installing and using these modules.

THE INFORMATION CONTAINED HEREIN AND SELLER'S PRODUCTS ARE PROVIDED "AS IS" WITHOUT WARRANTY OF ANY KIND, EITHER EXPRESSED OR IMPLIED, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY, FITNESS FOR ANY PARTICULAR PURPOSE OR USE, OR NON-INFRINGEMENT OF INTELLECTUAL PROPERTY. IN NO EVENT SHALL SELLER BE LIABLE FOR ANY SPECIAL, INCIDENTAL, INDIRECT, OR CONSEQUENTIAL DAMAGES OF ANY KIND, OR ANY DAMAGES WHATSOEVER RESULTING FROM THE USE OF INFORMATION CONTAINED HEREIN AND SELLER'S PRODUCTS.

Liqui-Cel<sup>®</sup>, SuperPhobic<sup>®</sup>, MiniModule<sup>®</sup> and MicroModule<sup>®</sup> are registered trademarks of Membrana-Charlotte, A Division of Celgard, LLC. Victaulic<sup>®</sup> is a registered trademark of Victaulic company.

Copyright © 2013 Membrana – Charlotte

All rights reserved.

(D107 Rev 4)

**Membrana - Charlotte**  
A Division of Celgard, LLC  
13800 South Lakes Drive  
Charlotte, North Carolina 28273  
USA

Phone: (704) 587 8888  
Fax: (704) 587 8610

**Membrana GmbH**  
Oehler Strasse 28  
42289 Wuppertal  
Germany

Phone: +49 202 6099 - 658  
Phone: +49 6126 2260 - 41  
Fax: +49 202 6099 - 750

**Membrana - Japan**  
**Polypore K.K.**  
Shinjuku Mitsui Building, 27F  
1-1, Nishishinjuku 2-chome  
Shinjuku-ku, Tokyo 163-0427  
Japan

Phone: 81 3 5324 3361  
Fax: 81 3 5324 3369

**MEMBRANA**  
A POLYPORE COMPANY

[www.liqui-cel.com](http://www.liqui-cel.com)

