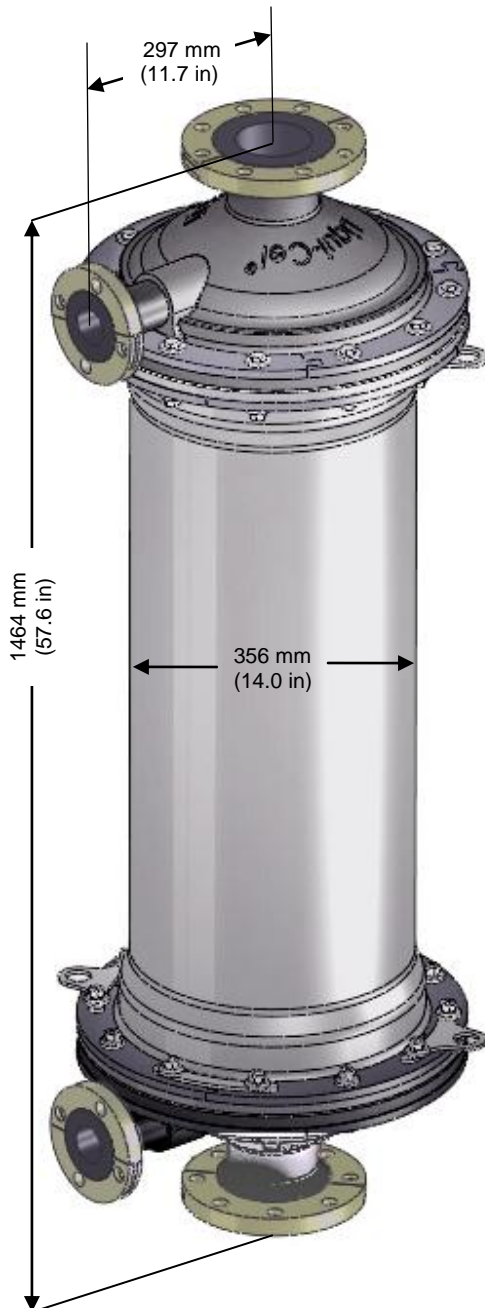


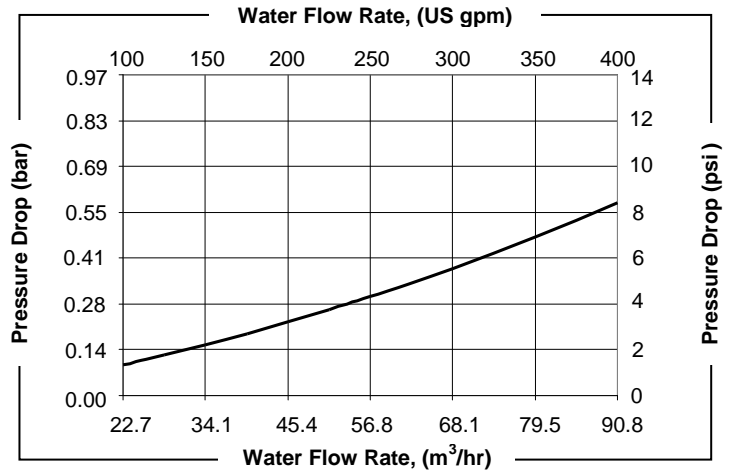
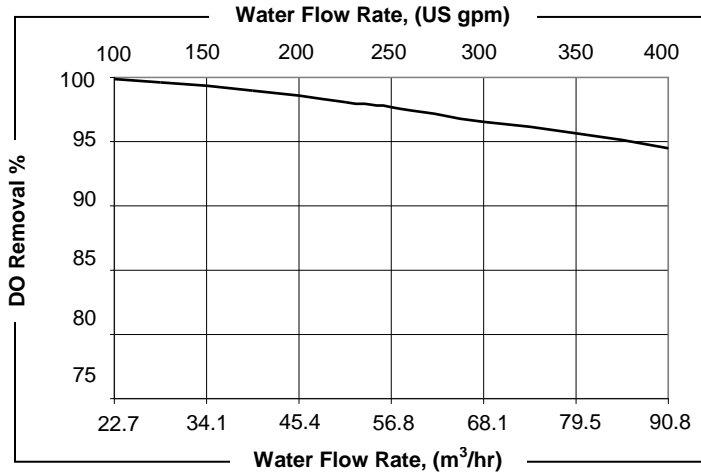
## 14 x 40 EXTRA-FLOW PRODUCT DATA SHEET



**NOTE:** All dimensions are nominal values

| Cartridge Characteristics   |  |
|---|--|
| Cartridge Configuration   | Extra-Flow with Center Baffle  |
| Liquid Flow Guidelines  | 16 – 125 m <sup>3</sup> /hr (70 – 550 gpm)   |
| Membrane Type   | <b>X40 Fiber</b>   |
|   | Recommended for O <sub>2</sub> removal from liquid and other gas transfer applications   |
| Membrane/Potting Material   | Polypropylene / Epoxy  |
| Typical Active Membrane Area  | 4015 ft <sup>2</sup> (373m <sup>2</sup> )  |
| Priming Volume (approximate)  |  |
| Shellside   | 51.3 liters (13.5 gal.)  |
| Lumenside   | 23.8 liters (6.3 gal.)   |
| Pressure Guidelines   |  |
| Maximum Shellside <b>LIQUID</b> Working Temperature/Pressure in vacuum or combo mode  | 5-25° C, 7.2 bar (41-77° F, 105 psig)<br>50° C, 2.1 bar (122° F, 30 psig)  |
| If no vacuum is used, 1.05 bar (15 psig) can be added to pressures above.   |  |
| Maximum Applied Gas Pressure  | 4.1 bar (60 psig)  |
| Max applied gas pressure is for integrity testing at ambient temperatures. Normal operating pressures are typically lower.  |  |
| *Pressures are based on non-dangerous liquids and gasses per the European Union Pressure Equipment Directive /97/23/EC. See Operating Guide for pressure limits in the European Union with dangerous liquids and gasses. Also, see Operating Guide for complete temp/pressure limits for housings and membrane.<br>Note: Liquid pressure should always exceed gas pressure. |  |
| Housing Options and Characteristics   |  |
| Housing Material  | PVC Vessel with Nylon End Caps   |
| Flange Backing Rings  | SMC (Sheet Molded Compound)  |
| Flange Connections  |  |
| Shellside (Liquid Inlet/Outlet)   | <ul style="list-style-type: none"> <li>SMC 4 inch class 150 raised face flange per ANSI B16.5</li> <li>SMC 100A at 10K raised face flange per JIS B2238</li> </ul> |
| Lumenside   | <ul style="list-style-type: none"> <li>SMC 2 inch class 150 raised face flange per ANSI B16.5</li> <li>SMC 50A at 10K flat face flange per JIS B2238</li> </ul>    |
| Mounting Kit  |  |
| A Mounting Kit with 2 cradles and 2 straps is available and sold separately. It will hold the contactor horizontally or vertically.   |  |
| Seal Options  |  |
| Material  | Applications   |
| EPDM (ANSI / NSF 61)  | All Purpose  |
| Weight (approximate)  |  |
| Dry   | 72.3 kg. (159.5 lbs.)  |
| Liquid Full   | 123.6 kg. (272.5 lbs.)   |
| Regulatory  |  |
| Meets RoHS threshold limits. Complies with the PED 97/23/EC. NSF Certified to NSF/ANSI 61.  |  |

## 14 x 40 EXTRA-FLOW PRODUCT DATA SHEET



| Cartridge Specifications                          |   |                     |
|---|---|---------------------|
| Characteristics                                   | Test Conditions   | Specifications      |
| Performance<br>O <sub>2</sub> Removal,<br>minimum | Shellside water flow:<br>300 gpm, 20°C (68°F)<br>Lumenside N <sub>2</sub> Flow:<br>6.5 scfm | X40: 92%<br>minimum |
| Pressure Drop,<br>psi maximum                     | Shellside water flow:<br>300 gpm, 20°C (68°F)   | 9.0 psi<br>maximum  |

Curves represent nominal values, generated using water at 20°C.

Test condition O<sub>2</sub> Removal: X40 membrane, N<sub>2</sub>-vacuum combo mode, Vacuum: 50 torr, N<sub>2</sub>: 0.8 scfm.

Characteristics may change under different operating conditions.

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**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**  
Oehder 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



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