

**Module Characteristics**

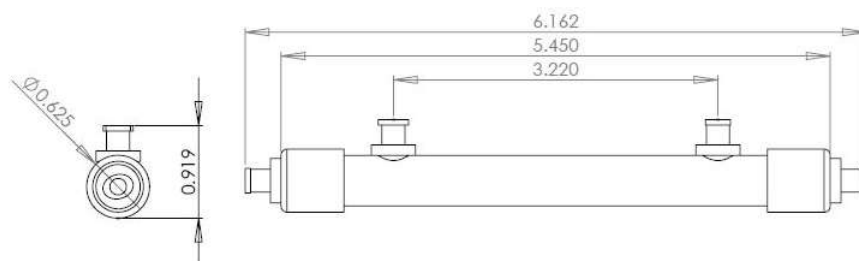
Membrane Material Membrane Type		PDMS ( Silicone ) Dense Hollow Fiber
Fiber ID	µm (in)	190 ( 0.00748 )
Fiber OD	µm (in)	300 ( 0.0118 )
Fiber Wall Thickness	µm (in)	55 (0.0022)
Fiber Count	#	156
Membrane Area <sup>1</sup>	cm <sup>2</sup> (ft <sup>2</sup> )	125 ( 0.13 )
Module Length	cm (in)	16 ( 6.2)
Module Diameter	cm (in)	1.59 (0.625)
Fittings / Connection Size	in	Female Luer
Shell / End Caps		Polycarbonate
Fittings Material		Polycarbonate
Potting Material		Polyurethane
Other Materials of Construction <sup>2</sup>		Polypropylene, Acrylic

**Operating Conditions**

Max Continuous Operating Temperature	°C (°F)	60 ( 140 )
Max Shell Side Pressure	bar (psig)	1 ( 15 ) @ 77°F
Max Lumen Pressure	bar (psig)	3 ( 45 ) @ 77°F
Max TMP <sup>3</sup> Shell to Lumen	bar (psi)	1 ( 15 ) @ 77°F
Max TMP <sup>3</sup> Lumen to Shell	bar (psi)	3 ( 45 ) @ 77°F
Typical Liquid Flow Rate	ml/min	60
Sweep Flow Rate (no Vacuum)	cc/min	60
Sweep Flow Rate with Vacuum	cc/min	60
Typical Gas Flow Rate	cc/min	120

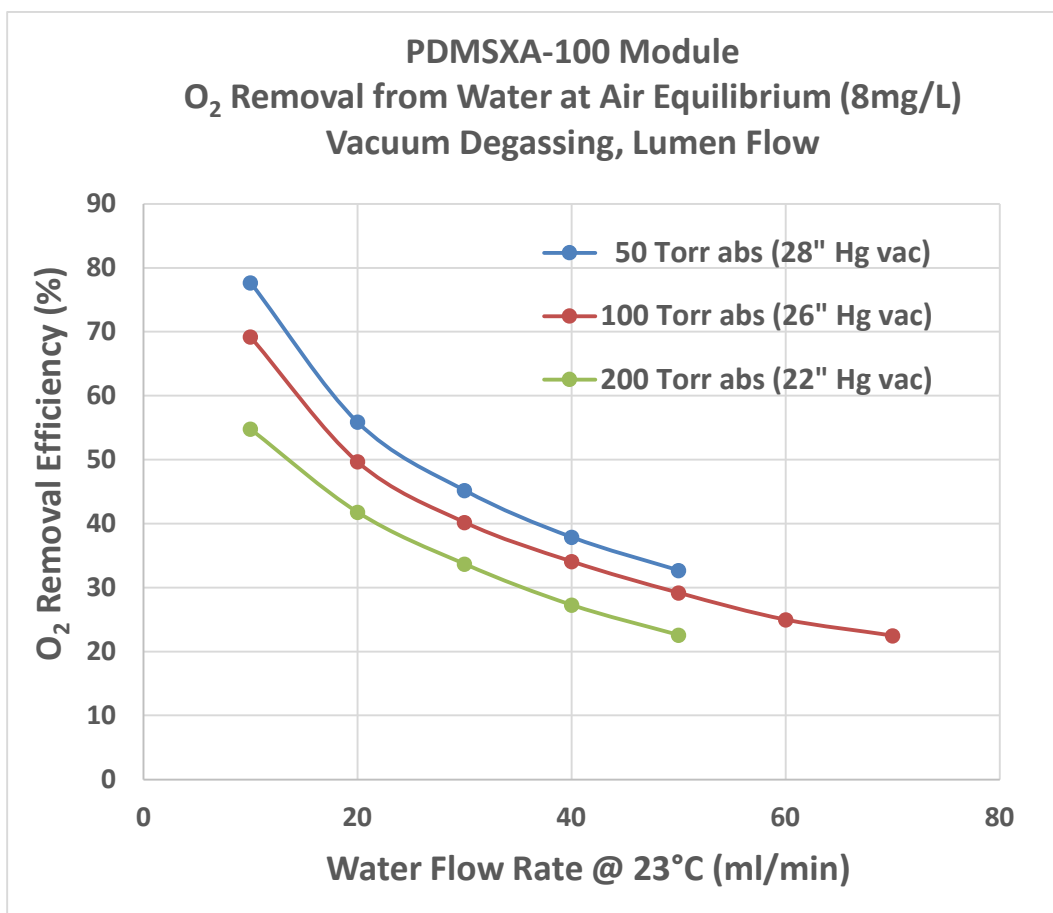
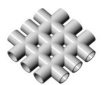
**Volume / Weight**

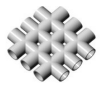
Lumen Side Priming Volume	ml	2.10
Dry Weight	g	20.3
Wet Weight - Lumen Side Filled	g	22.4



Note: All dimensions in inches

- 1- Based on fiber OD
- 2- Traces of PVOH (polyvinyl alcohol) possible in lumens
- 3- TMP (Transmembrane Pressure)





## WARNING

MEMBRANE MODULES CAN DEVELOP LEAKS UNDER NORMAL OPERATING CONDITIONS. MEDARRAY CANNOT GUARANTEE, AND DOES NOT REPRESENT THAT MEMBRANE MODULES WILL NOT DEVELOP LEAKS.

All membrane applications are unique and different. While we may provide technical information to help our customers determine if our PermSelect® membrane modules could be suitable for their intended application, MedArray does not represent or warrant that our products are fit or safe for a particular application.

PermSelect® membrane modules are only to be used by persons thoroughly familiar with its use in its intended application. It is the responsibility of the user to determine the suitability of membrane modules in their specific application. Membrane modules can fail, permitting fluid discharge into the environment and mixing of shell and tube side fluids. **Users must take all precautions to ensure safety to people and property in case of module failure.** 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. Please read our Terms of Sale for further information.

MedArray reserves the right to modify this document without prior notice. Check our web site at [www.permselect.com](http://www.permselect.com) or [www.medarray.com](http://www.medarray.com) to verify the latest update. To the best of our knowledge the information contained herein is accurate. However, neither MedArray, Inc. nor any of its affiliates assumes any liability whatsoever for the accuracy or completeness of the information contained herein. Final determination of the suitability of any material and whether there is any infringement of patents, trademarks, or copyrights is the sole responsibility of the user. Users of any substance with PermSelect® membrane modules 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.

PermSelect® is a registered trademark of MedArray, Inc., 3915 Research Park Dr., Ste. A-4, Ann Arbor, MI 48108; +1 (734) 769-1066; [www.permselect.com](http://www.permselect.com). PermSelect® membranes and membrane modules are protected by US and international patents.

PDMSXA-100\_04-25