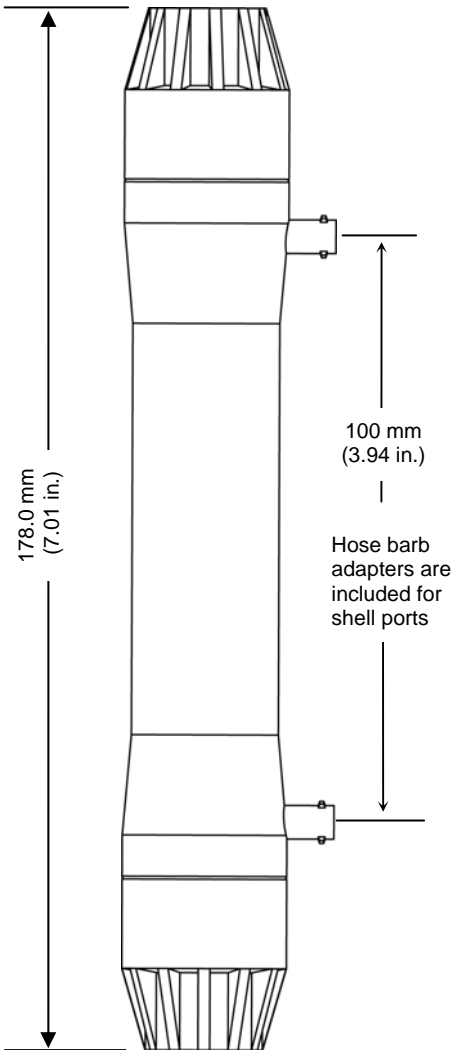
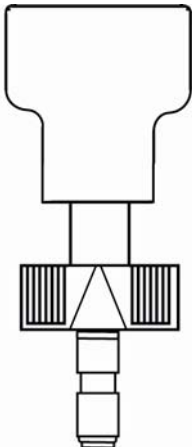


## MiniModule® 1 x 5.5 PRODUCT DATA SHEET



Optional John Guest Adapters

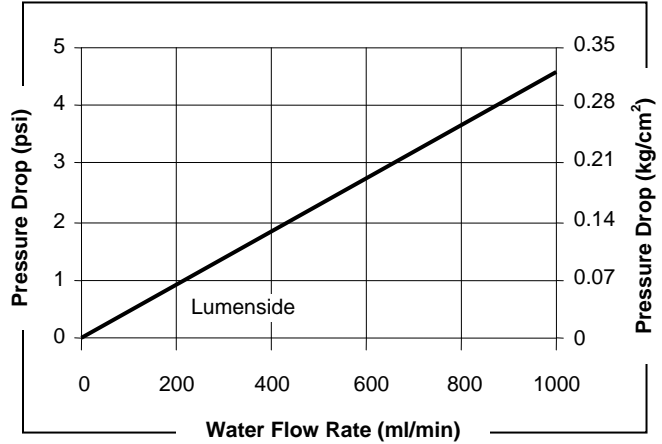
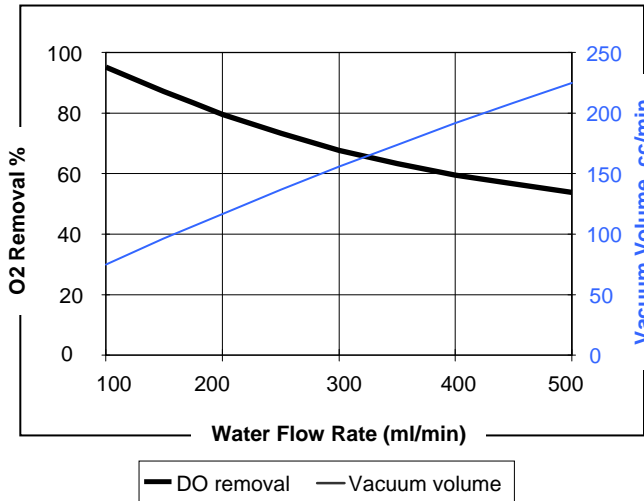


Contactor Characteristics	
	<b>1 x 5.5</b>
<b>Cartridge Configuration</b>	Parallel Flow. Lumenside Liquid Flow.
<b>Liquid Side Flow Guidelines</b>	< 500 ml/min (0.13 gpm)
<b>Membrane</b>	X50 Fiber
<b>Porosity</b>	40% Porosity
<b>OD / ID</b>	300µm OD/220µm ID
<b>Potting Material</b>	Polyurethane
<b>Active Surface Area</b>	0.18 m <sup>2</sup> (1.9 ft <sup>2</sup> )
<b>Number of Fibers</b>	2300
<b>Maximum Temperature/Pressure</b>	4.2 kg/cm <sup>2</sup> (4.1 bar, 60 psig) at 23°C (73°F) Maximum 35°C (95°F) at 2.1 kg/cm <sup>2</sup> (2.1 bar, 30 psig)
<b>Priming Volume (approximate)</b>	Lumenside 16 ml Shellside 25 ml
Housing Characteristics	
<b>Material</b>	Polycarbonate Housing and end caps
<b>Flange Connections</b>	
Shellside (Gas / Vacuum)	Standard Female Luer Lock with Polycarbonate adaptors to ¼ inch Hosebarb
Lumenside (Wetted Surface)	¼ inch FNPT or Dialyzer Type Male Luer Lock with ABS adaptors to 5.9mm (0.23 inch) Straight tube and acetal adaptors to 6.35mm (0.25 inch) John Guest® fittings
<b>Weight (with adapters)</b>	
Dry	0.051 kg (0.11 lbs.)
Liquid Full (Lumenside)	0.068 kg (0.15 lbs.)
Shipping Weight	0.218 kg (0.48 lbs.)

All components of the MiniModule® Membrane Contactor, when used in accordance with recommendations given in our product literature for treatment or processing of water, non-alcoholic beverages, and aqueous, acid and non-acid food products at and below ambient temperatures, are in compliance with all relevant FDA regulations as specified in Title 21 of the Code of Federal Regulations.

Overall length with John Guest Adapters is 281.2mm (11.07 inches)  
Note: All dimensions are nominal values

**MiniModule® 1 x 5.5 PRODUCT DATA SHEET**



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

Contactor Specifications		
Characteristics	Test Conditions	Specifications
Performance O2 Removal	Lumenside water flow: 200 ml/min, 20°C	70% minimum
Pressure Drop	Lumenside water flow: 200 ml/min, 20°C	1.6 psi maximum

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. 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 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.

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