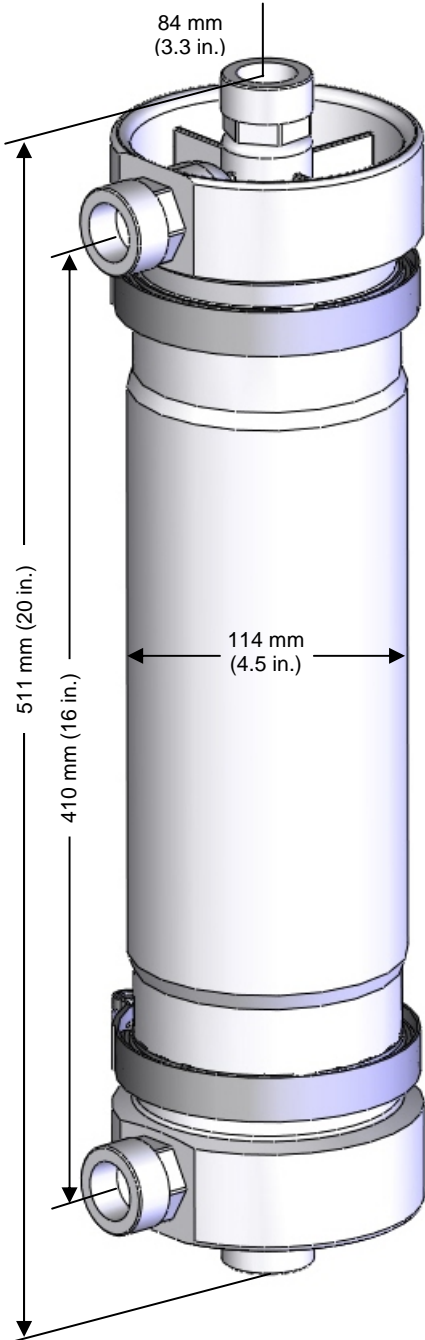


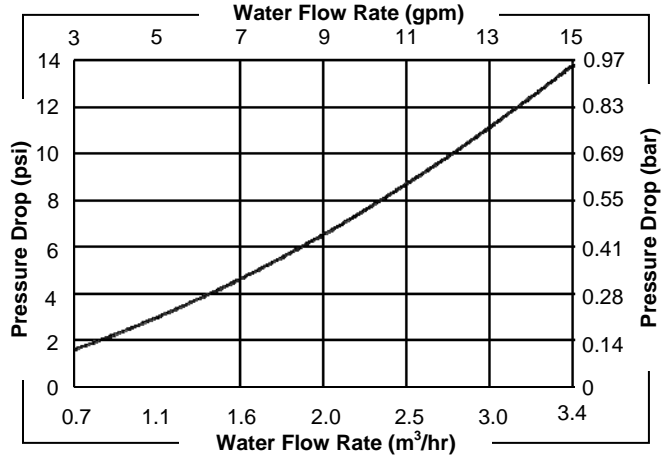
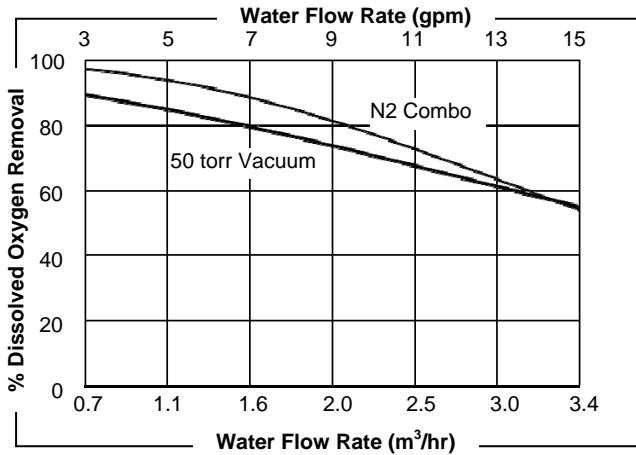
4 x 13 SuperPhobic® PRODUCT DATA SHEET



NOTE: All dimensions are nominal values.

Cartridge Characteristics	
Cartridge Configuration	Extra-Flow with center baffle
Liquid Flow Guidelines	0.2 – 3.4 m ³ /hr (1-15 gpm) Liquid must flow on the shellside
Membrane/Potting Material	Polyolefin / Polyethylene
Typical Membrane Surface Area	7.0 m ² (75.3 ft ²)
Priming Volume	
Shellside	1.4 liters (0.37 gal.)
Lumenside	0.5 liters (0.14 gal.)
Pressure Guidelines	
Maximum Shellside <u>LIQUID</u> Working Temperature/Pressure (Using 50 mm vacuum on lumenside)	30°C, 7.3 bar (86°F, 105 psig) 40°C, 4.8 bar (104°F, 70 psig)
Note: Liquid pressure should always exceed gas pressure.	
Housing Options and Characteristics	
Material	Polypropylene
Flange Connections	
Shellside (Wetted surface)	<ul style="list-style-type: none"> 1 inch Sanitary ¾ inch NPT Female 1 inch George Fisher Rc ¾ per JIS B0203
Lumenside (Gas/Vacuum)	<ul style="list-style-type: none"> 1 inch 90° Sanitary ¾ inch 90° NPT Female Rc ¾ per JIS B0203
Seal Options	
Material	Applications
Viton	General Purpose
K-UPW	Ultra Pure Water
Weight	
Dry	2.5 kg. (5.6 lbs.)
Liquid full	3.9 kg. (8.6 lbs.)
Shipping weight	3.2 kg. (7.1 lbs.)
Regulatory	
Meets RoHS threshold limits. All components of the SuperPhobic® Membrane Contactor, when used in accordance with recommendations given in our product literature at and below ambient temperatures, are in compliance with all relevant FDA regulations as specified in Title 21 of the Code of Federal Regulations.	

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Cartridge Specifications		
Characteristics	Test Conditions	Specifications
Performance O ₂ Removal	Shellside water flow: 12 gpm, 20°C (68°F) Lumenside N ₂ Flow: 1.0 scfm	61% minimum
Pressure Drop, psi maximum	Shellside water flow: 12 gpm, 20°C (68°F)	10

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

Test condition O₂ Removal: Vacuum mode, vacuum: 50 torr. N₂-Combo, vacuum: 50 torr, N₂ sweep: 0.07 scfm.

Characteristics may change under different operating conditions.

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