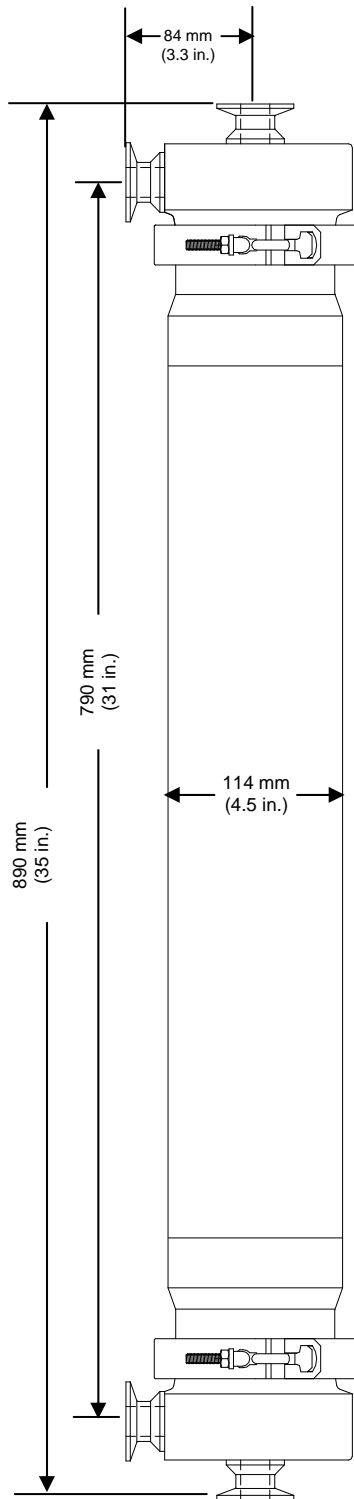


4 x 28 SuperPhobic® PRODUCT DATA SHEET

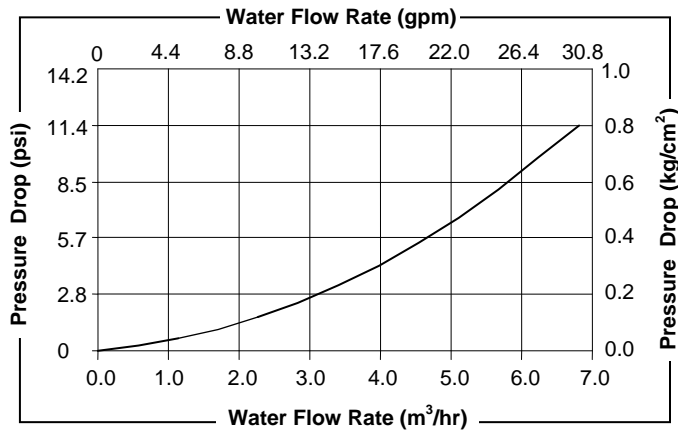
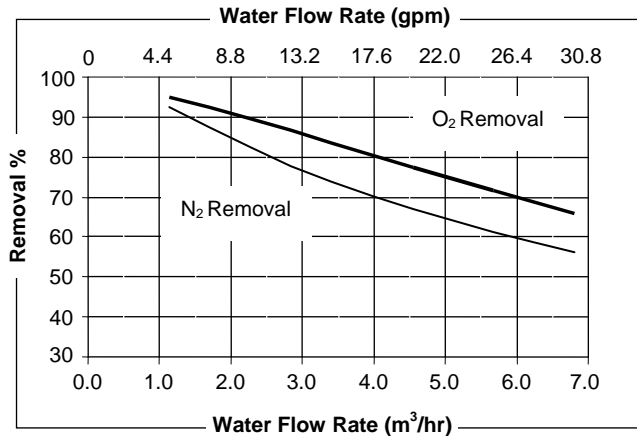


NOTE: All dimensions are nominal values.

Cartridge Characteristics		
Cartridge Configuration	Extra-Flow with center baffle	
Liquid Flow Guidelines (one cartridge)	1.1-6.8 m ³ /hr (5-30 gpm) Liquid must flow on the shellside	
Membrane/Potting Material	Polyolefin / Polyethylene	
Typical Membrane Surface Area	21.7 m ² (234 ft ²)	
Maximum Shellside Working Temperature/Pressure of Fiber (Using 50 mm vacuum on lumenside)	25°C, 4.2 kg/cm ² (4.1 bar) 50°C, 1.1 kg/cm ² (1.0 bar) (77°F, 60 psig) (122°F, 15 psig)	
Priming Volume		
Shellside	3.27 liters (0.86 gal.)	
Lumenside	0.67 liters (0.18 gal.)	
Housing Characteristics		
Material	Polypropylene	316L SS (32 Ra finish)
Flange Connections		
Shellside (Wetted surface)	<ul style="list-style-type: none"> 1 inch Sanitary ¾ inch NPT Female 1 inch GF Rc ¾ per JIS B0203 	<ul style="list-style-type: none"> 1 inch Sanitary
Lumenside (Gas/Vacuum)	<ul style="list-style-type: none"> 1 inch 90° Sanitary ¾ inch 90° NPT Female Rc ¾ per JIS B0203 	<ul style="list-style-type: none"> 1 inch Sanitary
Maximum Temperature/ Pressure Guideline of Housing	30°C, 7.4 kg/cm ² 40°C, 4.9 kg/cm ² (86°F, 105 psig) (104°F, 70 psig)	70°C, 10.5 kg/cm ² (158°F, 150 psig)
The membrane is the limiting factor. See above		
Seal Options		
Material	Applications	
Viton	General Purpose	
K-UPW	Ultra Pure Water	
Weight	Polypropylene	316L SS
Dry Cartridge Only	4.7 kg. (10.4 lbs.) 1.2 kg. (2.6 lbs.)	7.0 kg (15.4 lbs.) 1.2 kg (2.6 lbs.)
Shipping Weight	Additional 0.9 kg (2 lbs.)	

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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Test Conditions: Vacuum 30 torr

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

Cartridge Specifications		
Characteristics	Test Conditions	Specifications
Performance O ₂ Removal	Shellside water flow: 27 gpm, 20°C (68°F) Lumenside N ₂ Flow: 1.0 scfm	66% minimum
Pressure Drop, psi maximum	Shellside water flow: 27 gpm, 20°C (68°F)	6.3

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