



## HEPA Filter Capsules (99.97% efficiency at 0.3µm)

### High-Efficiency Particulate Air and Gas Filter

PureFlo® HEPA Capsules are designed for high retention and particle holding capacity for air and gas in the pharmaceutical, biotechnology, medical, chemical, food and beverage applications worldwide. This family of products is particularly suitable for a variety of gases with four different filtration media to choose from.

They are designed to provide bacteria, algae, fungal-free air for sterile applications such as fermentors or incubators. The capsules have a durable polypropylene housings. The media allows for high flow rates and low pressure drops.



### Specifications

Applications	
Tank Vent	Air Filter
Vacuum pump	Beverages
Fermentor	Pharmaceuticals
Fine Chemicals	Biologics
Incubator	Wine
Beer	Water

Materials of Construction:	Media: Non-Woven Polypropylene, Micro-Glass fiber, PTFE, Polyethylene Media Supports: Polypropylene Shell, Cage, Core, and End Caps: Polypropylene
Fitting Connections:	Hose Barb, NPT, Compression Quick Couplings, and Sanitary. Any inlet/outlet combinations. (Custom adaptors available upon request)
Nominal Dimensions:	Length: 1.5 in (68 mm), Length: 2.5 in (98 mm), Length: 5.0 in (153 mm), Length: 7.5 in (221mm), Length: 10 in (276mm), Diameter: 2.88 in (73 mm), MKL Size: 2.3in (60mm)
Effective Filtration Area:	1.5 in: 180-600 cm <sup>2</sup> , 2.5 in: 360-1300 cm <sup>2</sup> , 5.0 in 700-2500 cm <sup>2</sup> 7.5 in: 1060-3800, 10 in: 2600-5000 cm <sup>2</sup> , MKL Size: 200-500cm <sup>2</sup>
Operating Conditions:	Maximum Operating Pressure: Liquid: 5.5 bar (80psi) at 72°F/22°C Gas: 4.1 bar (60psi) at 72°F/22°C Maximum Forward Differential Pressure: 4.1 bar (60psi) at 72°F/22°C Maximum Reverse Differential Pressure: 2.1 bar (30 psi) at 72°F/22°C Minimum Burst Pressure: 8.3 bar (120psi) at 72°F/22°C Maximum Operating Temperature: 140°F/60°C
HEPA Rated: Pyrogenicity:	Ensures particulate-free air 99.97% retention of 0.3 µm DOP aerosol <0.25 EU/ml using the LAL test method
Autoclavable & Sanitizable:	Capsules can be autoclaved 25 times at 257°F/125°C for 30 minutes or chemically sanitized in situ using common sanitizing agents or hot water at 194°F/90°C for a limited time (dependent on time and temperature). Capsules must not be in situ steam-sterilized.
Regulatory Compliance:	The filters are constructed with polypropylene resins and filtration media in compliance with 21CFR Part 177 of the US Code of Federal Regulations and USP Class VI Biological Test for Plastic.



## HEPA Filter Capsules

### PureFlo MK Series HEPA Filter Capsule Ordering Guide

PureFlo Capsule Filters	Filter Media	Pore size (Micron)	Surface Area	Inlet Fitting	Outlet Fitting	Options
<b>MKL</b> 60mm Diameter	<b>UE</b> = Polyethylene <b>F</b> = PTFE Phobic <b>G</b> = Glass Fiber <b>P</b> = Polypropylene Media	<b>H</b> = HEPA	<b>A</b> = 200cm <sup>2</sup> <b>B</b> = 300cm <sup>2</sup> <b>C</b> = 400cm <sup>2</sup> <b>D</b> = 500cm <sup>2</sup>  <b>UE, G and P Media are only available in Surface Area "C" (400cm<sup>2</sup>)</b>	<b>1C</b>	<b>1C</b> = 1/8" Compression	<b>Shell Material</b> <b>Blank</b> = Polypro <b>-E</b> = Polyethylene shell and HDPE media support <b>-BLK</b> = Black PP Shell <b>-GP</b> = Gamma stable polypropylene shell <b>-NY</b> = Nylon Shell <b>Vent &amp; Drain</b> <b>-N</b> = No vent or drain <b>-NI</b> = No vent or drain <b>-NO</b> = NO vent or drain <b>Sterilization</b> <b>-ETO</b> = Ethylene oxide sterilization <b>O-Ring for Quick</b> <b>Blank</b> = O-ring Silicone (Standard) <b>-OE</b> = O-ring EPDM <b>-ON</b> = O-ring Nitrile <b>-OV</b> = O-ring Viton
				<b>1H</b>	<b>1H</b> = 1/8" Hose Barb	
				<b>1Q</b>	<b>1Q</b> = 1/8" Male Quick Coupling	
				<b>1QF</b>	<b>1QF</b> = 1/8" Female Quick Coupling	
				<b>1QE</b>	<b>1QE</b> = 1/8" Male Quick Coupling Elbow	
				<b>1QFV</b>	<b>1QFV</b> = 1/8" Female Quick Connect w/Valve	
				<b>1QV</b>	<b>1QV</b> = 1/8" Male Quick Connect w/Valve	
				<b>2C</b>	<b>2C</b> = 1/4" Compression	
				<b>2CE</b>	<b>2CE</b> = 1/4" Compression Elbow	
				<b>2H</b>	<b>2H</b> = 1/4" Hose barbs	
				<b>2N</b>	<b>2N</b> = 1/4" MNPT	
				<b>2NO</b>	<b>2NO</b> = Short 1/4" MNPT+EP O-Ring	
				<b>2NS</b>	<b>2NS</b> = Short 1/4" MNPT	
				<b>2Q</b>	<b>2Q</b> = 1/4" Male Quick Coupling for Metal latch	
				<b>2QE</b>	<b>2QE</b> = 1/4" Male Quick Coupling for Metal latch	
				<b>2QF</b>	<b>2QF</b> = 1/4" Female Quick Coupling with Metal	
				<b>2QFV</b>	<b>2QFV</b> = 1/4" Female Quick Connect w/Valve	
				<b>2QV</b>	<b>2QV</b> = 1/4" Male Quick Connect w/Valve	
				<b>3H</b>	<b>3H</b> = 3/8" Hose Barb	
				<b>3NF</b>	<b>3NF</b> = 3/8" Female NPT	
<b>5H</b>	<b>5H</b> = 5/8" Hose Barb					
<b>LF</b>	<b>LF</b> = Female Luer Lock					
<b>LFE</b>	<b>LFE</b> = Female Luer Lock Elbow					
<b>MT</b>	<b>MT</b> = 1/2" Tri clamps					
<b>Example - MKL Series, PTFE, HEPA, 500cm<sup>2</sup>, 1/4" Hose Barb I/O is <b>MKLFHD2H2H</b></b>						



MK Series Filter



SKL Series Filter

### PureFlo SK Series HEPA Filter Capsule Ordering Guide

PureFlo Capsule Filters	Filter Media	Pore size (Micron)	Length	Input Fitting	Output Fitting	Options
<b>SKL</b> 70mm Diameter Capsule	<b>UE</b> = Polyethylene <b>F</b> = PTFE Phobic <b>G</b> = Glass Fiber <b>P</b> = Polypropylene Media	<b>H</b> = HEPA	<b>H</b> = 1.5"	<b>1C</b>	<b>1C</b> = 1/8" Compression	<b>Shell Material</b> <b>Blank</b> = Polypro <b>-E</b> = Polyethylene shell and HDPE media support <b>-BLK</b> = Black PP Shell <b>-GP</b> = Gamma stable polypropylene shell <b>-NY</b> = Nylon Shell <b>Vent &amp; Drain</b> <b>-N</b> = No vent or drain <b>-NI</b> = No vent or drain <b>-NO</b> = NO vent or drain <b>Sterilization</b> <b>-ETO</b> = Ethylene oxide <b>O-Ring for Quick</b> <b>Blank</b> = O-ring Silicone (Standard) <b>-OE</b> = O-ring EPDM <b>-ON</b> = O-ring Nitrile <b>-OV</b> = O-ring Viton
			<b>S</b> = 2.5"	<b>1H</b>	<b>1H</b> = 1/8" Hose barbs	
			<b>L</b> = 5"	<b>1N</b>	<b>1N</b> = 1/8" MNPT	
			<b>E</b> = 7.5"	<b>1NF</b>	<b>1NF</b> = 1/8" FNPT	
			<b>K</b> = 10"	<b>1Q</b>	<b>1Q</b> = 1/8" Male Quick Coupling with Metal latch	
				<b>1QF</b>	<b>1QF</b> = 1/8" Female Quick Coupling with Metal latch	
				<b>1QFV</b>	<b>1QFV</b> = 1/8" Female Valved Quick Coupling with Metal latch	
				<b>1QV</b>	<b>1QV</b> = 1/8" Male Valved Quick Coupling with Metal latch	
				<b>2C</b>	<b>2C</b> = 1/4" Compression	
				<b>2H</b>	<b>2H</b> = 1/4" to 1/2" Hose barbs	
				<b>2HS</b>	<b>2HS</b> = 1/4" to 3/8" Hose barbs	
				<b>2LF</b>	<b>2LF</b> = Large Female Luer Lock fitting	
				<b>2N</b>	<b>2N</b> = 1/4" MNPT	
				<b>2NF</b>	<b>2NF</b> = 1/4" FNPT	
				<b>2P</b>	<b>2P</b> = 1/4" Push to Connect	
				<b>2PE</b>	<b>2PE</b> = 1/4" Push to Connect Elbow	
				<b>2Q</b>	<b>2Q</b> = 1/4" Male Quick Coupling for Metal latch	
				<b>2QF</b>	<b>2QF</b> = 1/4" Female Quick Coupling with Metal latch	
				<b>2QFP</b>	<b>2QFP</b> = 1/4" Female Quick Coupling with Plastic latch	
				<b>2QFV</b>	<b>2QFV</b> = 1/4" Female Valved Quick Coupling with Metal latch	
				<b>2QP</b>	<b>2QP</b> = 1/4" Male Quick Coupling for Plastic latch	
				<b>2QV</b>	<b>2QV</b> = 1/4" Male Valved Quick Coupling with Metal latch	
				<b>2V</b>	<b>2V</b> = 1/4" Walther Quick Connect	
				<b>3C</b>	<b>3C</b> = 3/8" Compression	
				<b>3H</b>	<b>3H</b> = 3/8" Hose Barb	
				<b>3HE</b>	<b>3HE</b> = 3/8" Hose Barb Elbow	
				<b>3NF</b>	<b>3NF</b> = 3/8" FNPT	
				<b>4C</b>	<b>4C</b> = 1/2" Compression	
				<b>4H</b>	<b>4H</b> = 1/2" Hose Barb	
				<b>4N</b>	<b>4N</b> = 1/2" MNPT	
	<b>4Q</b>	<b>4Q</b> = 1/2" Male Quick Coupling for Plastic latch				
	<b>8C</b>	<b>8C</b> = 5/16" Compression				
	<b>MT</b>	<b>MT</b> = 1/2" Tri clamps				
	<b>TC</b>	<b>TC</b> = 1-1/2" Tri clamp				
<b>Example - 2.5", Glass Fiber, HEPA rated Capsule, with 1/2" Hose Barb fittings would be <b>SKLGH54H4H</b></b>						
<small>Male Quick Couplings are molded, Female Quick Coupling with Plastic latch will be threaded on, compatible with CPC (Colder), Link Tech and other compatible couplings.</small>						

