

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 ² , 2.5 in: 360-1300 cm ² , 5.0 in 700-2500 cm ² 7.5 in: 1060-3800, 10 in: 2600-5000 cm ² , MKL Size: 200-500cm ²
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
MKL 60mm Diameter	UE = Polyethylene F = PTFE Phobic G = Glass Fiber P = Polypropylene Media	H = HEPA	A = 200cm ² B = 300cm ² C = 400cm ² D = 500cm ²	1C	1C = 1/8" Compression	Shell Material Blank = Polypro -E = Polyethylene shell and HDPE media support -BLK = Black PP Shell -GP = Gamma stable polypropylene shell -NY = Nylon Shell Vent & Drain -N = No vent or drain -NI = No vent or drain -NO = NO vent or drain Sterilization -ETO = Ethylene oxide sterilization O-Ring for Quick Blank = O-ring Silicone (Standard) -OE = O-ring EPDM -ON = O-ring Nitrile -OV = O-ring Viton
				1H	1H = 1/8" Hose Barb	
				1Q	1Q = 1/8" Male Quick Coupling	
				1QF	1QF = 1/8" Female Quick Coupling	
				1QE	1QE = 1/8" Male Quick Coupling Elbow	
				1QFV	1QFV = 1/8" Female Quick Connect w/Valve	
				1QV	1QV = 1/8" Male Quick Connect w/Valve	
				2C	2C = 1/4" Compression	
				2CE	2CE = 1/4" Compression Elbow	
				2H	2H = 1/4" Hose barbs	
			UE, G and P Media are only available in Surface Area "C" (400cm²)	2N	2N = 1/4" MNPT	
				2NO	2NO = Short 1/4" MNPT+EP O-Ring	
				2NS	2NS = Short 1/4" MNPT	
				2Q	2Q = 1/4" Male Quick Coupling for Metal latch	
				2QE	2QE = 1/4" Male Quick Coupling for Metal latch	
				2QF	2QF = 1/4" Female Quick Coupling with Metal	
				2QFV	2QFV = 1/4" Female Quick Connect w/Valve	
				2QV	2QV = 1/4" Male Quick Connect w/Valve	
				3H	3H = 3/8" Hose Barb	
				3NF	3NF = 3/8" Female NPT	
				5H	5H = 5/8" Hose Barb	
				LF	LF = Female Luer Lock	
				LFE	LFE = Female Luer Lock Elbow	
				MT	MT = 1/2" Tri clamps	

Example - MKL Series, PTFE, HEPA, 500cm², 1/4" Hose Barb I/O is **MKLFHD2H2H**



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
SKL 70mm Diameter Capsule	UE = Polyethylene F = PTFE Phobic G = Glass Fiber P = Polypropylene Media	H = HEPA	H = 1.5" S = 2.5" L = 5" E = 7.5" K = 10"	1C	1C = 1/8" Compression	Shell Material Blank = Polypro -E = Polyethylene shell and HDPE media support -BLK = Black PP Shell -GP = Gamma stable polypropylene shell -NY = Nylon Shell Vent & Drain -N = No vent or drain -NI = No vent or drain -NO = NO vent or drain Sterilization -ETO = Ethylene oxide O-Ring for Quick Blank = O-ring Silicone (Standard) -OE = O-ring EPDM -ON = O-ring Nitrile -OV = O-ring Viton
				1H	1H = 1/8" Hose barbs	
				1N	1N = 1/8" MNPT	
				1NF	1NF = 1/8" FNPT	
				1Q	1Q = 1/8" Male Quick Coupling with Metal latch	
				1QF	1QF = 1/8" Female Quick Coupling with Metal latch	
				1QFV	1QFV = 1/8" Female Valved Quick Coupling with Metal latch	
				1QV	1QV = 1/8" Male Valved Quick Coupling with Metal latch	
				2C	2C = 1/4" Compression	
				2H	2H = 1/4" to 1/2" Hose barbs	
				2HS	2HS = 1/4" to 3/8" Hose barbs	
				2LF	2LF = Large Female Luer Lock fitting	
				2N	2N = 1/4" MNPT	
				2NF	2NF = 1/4" FNPT	
				2P	2P = 1/4" Push to Connect	
				2PE	2PE = 1/4" Push to Connect Elbow	
				2Q	2Q = 1/4" Male Quick Coupling for Metal latch	
				2QF	2QF = 1/4" Female Quick Coupling with Metal latch	
				2QFP	2QFP = 1/4" Female Quick Coupling with Plastic latch	
				2QFV	2QFV = 1/4" Female Valved Quick Coupling with Metal latch	
				2QP	2QP = 1/4" Male Quick Coupling for Plastic latch	
				2QV	2QV = 1/4" Male Valved Quick Coupling with Metal latch	
				2V	2V = 1/4" Walther Quick Connect	
				3C	3C = 3/8" Compression	
				3H	3H = 3/8" Hose Barb	
				3HE	3HE = 3/8" Hose Barb Elbow	
				3NF	3NF = 3/8" FNPT	
				4C	4C = 1/2" Compression	
				4H	4H = 1/2" Hose Barb	
				4N	4N = 1/2" MNPT	
				4Q	4Q = 1/2" Male Quick Coupling for Plastic latch	
				8C	8C = 5/16" Compression	
				MT	MT = 1/2" Tri clamps	
				TC	TC = 1-1/2" Tri clamp	

Example - 2.5", Glass Fiber, HEPA rated Capsule, with 1/2" Hose Barb fittings would be **SKLGHS4H4H**

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.

