



# PEPLYN AIR Filters

- air / gas filters
- meltblown polypropylene

PEPLYN AIR filter cartridges have been specifically designed to guarantee removal of particulate from gas streams.

They can be used to protect sterilizing grade filters in pressurized systems or in exhaust gas vent applications.

PEPLYN AIR is particularly suitable for:

- Inlet gas in the fermentation industry as protection to sterilizing grade filters where polypropylene media is preferred
- As protection to sterilizing grade filters in exhaust gas systems
- Vent applications
- Systems where high particulate loading is expected

PEPLYN AIR has the ability to be steam sterilized and has a broad range of chemical compatibility

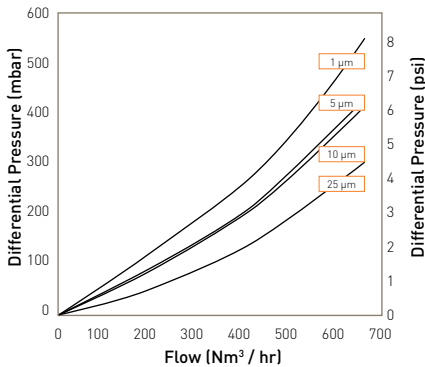
## Features and Benefits

- Cost-effective prefiltration
- Absolute micron rating range from 1.0 - 25 micron
- High flow rates and long life
- Steam sterilizable
- Graded density for excellent particle retention
- No release of particles even during system pressure fluctuations

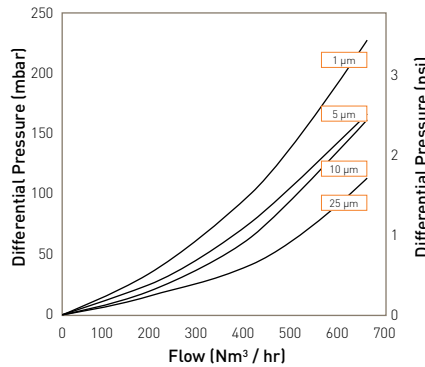


Note: PEPLYN is a registered trademark of Parker Hannifin Corporation.

## Performance Characteristics



Flow rates for other sizes available upon request



Flow rates for other sizes available upon request

**Cartridge flow rates @ 0 barg  
10" Size (250 mm)**

**Cartridge flow rates @ 2 barg  
10" Size (250 mm)**

## Specifications

### Materials of Construction

- Filtration Media: Meltblown Polypropylene
- Upstream Support: Polypropylene
- Downstream Support: Polypropylene
- Inner Support Core: 316L Stainless Steel
- Outer Protection Cage: Polypropylene
- End Caps: Polypropylene
- Standard o-rings/gaskets: Silicone

### Biological Safety

Materials conform to the relevant requirements of 21CFR Part 177 and current USP Plastics Class VI - 121 °C and ISO10993 equivalents.

### Recommended Operating Conditions

The maximum differential pressure in direction of flow (outside to in) is 3.5 barg (50.76 psig) at 20 °C (68 °F).

The maximum recommended continuous operating temperature is 50 °C (122 °F).

### Effective Filtration Area (EFA)\*

10" (250 mm) 0.49 m<sup>2</sup> (5.27 ft<sup>2</sup>)

\*Varies with micron rating

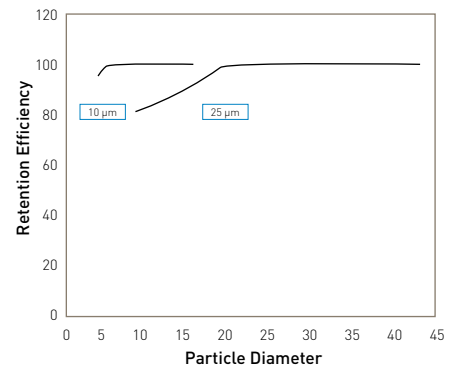
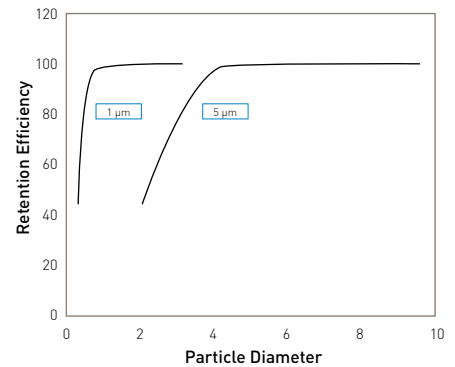
### Cleaning and Sterilization

PEPLYN AIR cartridges can be repeatedly in situ steam sterilized or autoclaved up to 142 °C (287.6 °F).

### Determination of Micron Ratings

Particle removal efficiencies of PEPLYN AIR cartridges have been determined independently by challenging with a cut silica test dust, generated by BUS1701 dust injector used in conjunction with laser particle counters.

### Micron Efficiency Ratings



## Ordering Information

ZCPH [ ] - [ ] - [ ] - [ ]

Code   Length (Nominal)	Code   Micron	Code   Endcap (10")	Code   O-rings
B* 2.5" (65 mm)	1.0 1.0 µm	C BF / 226 Bayonet	E EPDM
A* 5" (125 mm)	005 5.0 µm	H UF Retrofit	P PTFE Encapsulated Silicone
K 5" (125 mm)	010 10.0 µm		S* Silicone
1 10" (250 mm)	025 25.0 µm	<b>Code   Endcap (Demi)</b>	V Viton
2 20" (500 mm)		T TRUESEAL	
3 30" (750 mm)		Y Demi Stub	
		Z Demi A & B Std	

\* Silicone o-ring supplied as standard without having to specify the 'S' code.

\* Supplied in Packs of 3.

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