

Micro-Sep Air Vent Filter

Micro separations filter is self-contained, compact, high flow, liquid rated, sterilizing-grade devices that meets the critical demands of the pharmaceuticals, biotechnology and related industries. The product is designed and purposes build for small scale critical air and gas filtration applications.

Rugged polypropylene housings have broad chemical compatibility, hydrophobic membranes, including PTFE, PVDF, fiber glass laminated, provide high efficiency removal of airborne bacteria and particulate under dry or moist conditions. These devices act as barriers on air lines. They prevent the entry of water and aerosols into sensitive equipment and also protect the lab environment from aerosolized pathogens. Vent filters can also enable air to enter and exit vessels such as bioreactors, while maintaining the sterility of the interior environment

Specifications

Material of Construction	Filter Membrane	PTFE/PVDF/PP/Fiberglass
	Downstream support	PP(Polypropylene)
	Capsule Housing	PP
	Sealing Method	Thermal Bonding
	Filtration Ratings	0.1,0.2,0.45,0.8,1,3,5µm
Inlet and Outlet	Stepped hose barbs, ¼"- 1/2"(6.4-12.7)mm	
Integrity Testing	Minimum Bubble Point(95% Ethanol)	PTFE,0.2µm 1200 mbar
		PES, 0.2µm 1200 mbar
Bacterial Retention	>10 ⁷ cfu/cm ² retention of Brevundimonas diminuta per ASTM F838	
Sterilization	Autoclave: 121°C to 135°C(5 to 30psi, 1 o 2 bar), 30 min, ≥3 cycles. Gamma Irradiation: 25 to 40 kGy once. Do not autoclave irradiated capsules. Capsules must not be in-line steam sterilized	
Maximum Operating	Pressures	4.1 bar (410 kPa, 60Psi) at ambient temperature.
Effective Filtration Area	19.6cm ²	

Applications

- ♦ Venting receiving vessels
- ♦ Isolation or environmental chambers
- ♦ Bioreactors
- ♦ Fermentation tanks
- ♦ Carboys, and other small containers
- ♦ Use in-line for low-pressure sterile air/gas delivery to instruments and culture vessels
- ♦ Bio-isolation of a vacuum source
- ♦ Flushing instruments and cleaning parts.



Ordering Information

Code	Membrane	Code	Rating	Code	Housing	Code	Pre-filter
P	PP	010	0.1	P	PP	--	none
E	PES	020	0.2	H	HDPE	P	PP
F	PTFE	045	0.45			G	Fiberglass
V	PVDF	080	0.8				
G	Fiberglass	100	1.0				
		300	3.0				
		500	5.0				