

Masterfilter SLF-HT series

The Masterfilter *OptiFluor* SLF-HT series filter cartridges manufactured with hydrophobic PTFE membranes with advanced high-temperature resistance. They are designed for sterile filtration of air and gas. Due to their permanent hydrophobicity, SLF-HT cartridges offer high process security, and can withstand high temperatures continuous process conditions, ozonized water venting applications and stringent in-line steam sterilisations.

Applications

- Sterile hot air supply
- O₂ enriched air
- Venting high temperature products
- WFI tank venting
- Autoclaves
- Fermenter air inlet

Features and Benefits

- 0.2 µm absolute rated challenged in liquid
- Oxidation-resistant materials provide longer service life in air and vent applications
- Permanently hydrophobic PTFE for maximum security with wet and dry gas
- PTFE offers compatibility with most chemicals
- Exceptionally high flow rates with low delta p
- Suitable for all integrity test procedure including WIT (requires no alcohol)

Materials of Construction

- Filter media: Hydrophobic PTFE
- Support layers: Polyphenylene sulphide PPS
- Inner core: Polypropylene
- Outer cage: Polypropylene
- End caps: Polypropylene
- End cap insert: PBT/Stainless 304 insert
- O-rings: EPDM, Silicone, Viton

Operating Parameters

- Max. differential pressure forward: 6.9 bar at 25 °C, 4.0 bar at 60 °C, 2.4 bar 80 °C
- Max. differential pressure reverse: 3.0 bar at 25 °C
- Sterilization: Recommended 100 cycles at 145 °C for 30 minutes (
- Autoclaving: 400 cycles at 134 °C for 30 minutes

Flow Rate Characteristics



Biological Safety

- Comply with the relevant requirements of EU 1935/2004, EU directive 10/2011, according to 21CFR and current USP Plastics Class VI
- Comply with USP Plastics Class VI - 121 °C and ISO 10993 equivalents
- Tested with *B. diminuta* (ATCC191546) at > 10⁷ cm²
- Non fibre releasing per Title 21 of the US Code of Federal Regulations (CFR)

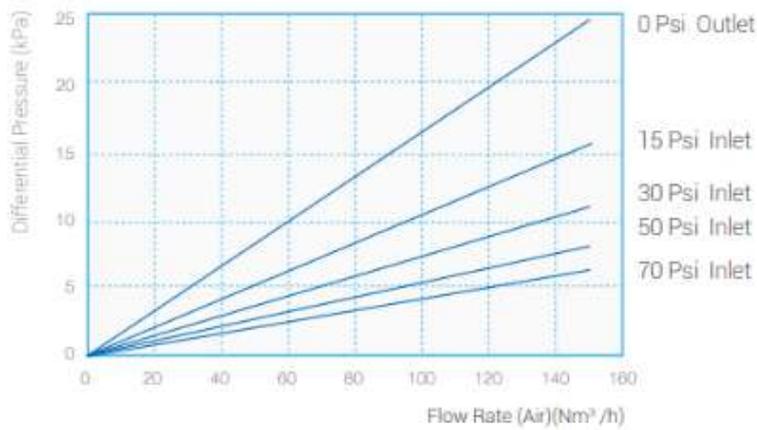
Typical Service Life in Continuous Flow Air Service

Max. temperature	Service Life
• 100 °C (212 F)	12 months
• 110 °C (230 °F)	6 months
• 120 °C (248 °F)	2 months

Effective Filtration Area

SLF-HT 0.2 µm (10 inch): 0.68 m²

Flow Rate (Air)



Part Numbers

SLF-HT 002 - 10 HSF - S

Code	Removal rating [μm]
002	0.2

Code	Length	
	[mm]	[inch]
2.5	70	2.5
05	127	5
10	254	10
20	508	20
30	762	30

Code	End caps
STC	Sartorius code 28
HTC	222 O-ring/flat (Code 3)
HTF	222 O-ring/fin (Code 8)
HSF	226 O-ring/fin (Code 7)
HSC	226 O-ring/flat top
HST	MCY 4463 (Code 18)
SLV	MCY 4440
STZ	Dh Z
STT	116 O-ring
CP2	R-2"
HSH	H code
HSU	MCY 1001

Code	O-Ring
S	Silicone
E	EPDM
P	Viton

e.g. part number: SLF-HT002-10-HSF-S

SLF-HT filter, 0.2 μm , 10" Length, End caps Code 7, Silicone O-rings