

ULTRA-MEM PF-PT STERILE AIR MEMBRANE

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STERILE AIR MEMBRANE FILTER

Ultra-Mem PF-PT



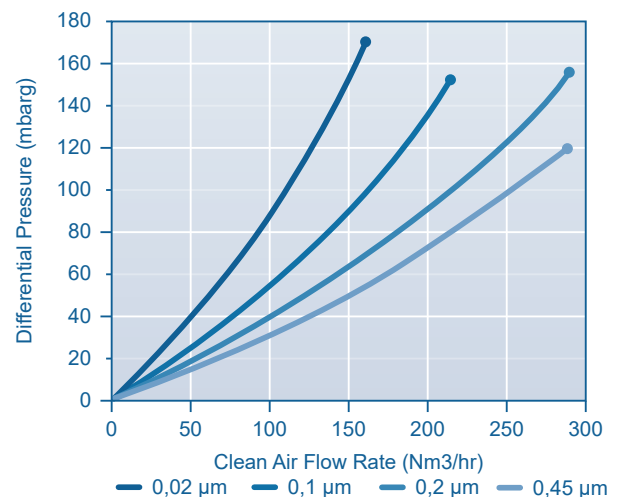
Technical Data

- ePTFE and Polypropylene
- 0,02 μm , 0,1 μm , 0,2 μm or 0,45 μm
- 99,999999%
- 20°C to 80°C
- Max. 6 bar @ 20°C
- Code 7 (others available)
- Silicone (others available)
- FDA CFR article 21/EC 1935/2004
Validated and Approved

For critical applications in sterile filtration, use of a hydrophobic PTFE membrane is recommended, especially in applications such as pharmaceutical industry and biotechnology. PTFE membranes are also well suited for sterile steam applications.

PF-PT Series cartridges are manufactured using a highly hydrophobic ePTFE membrane. The enhanced ePTFE membrane offers exceptionally high gas flow rates at low pressure differentials (see graph). PF-PT Series cartridges are recommended for sterile gas filtration and venting applications. The hydrophobic characteristics of the ePTFE membrane makes the PF-PT Series filter cartridge particularly suitable for wet gas sterilising applications, such as fermenter air feed.

For solvent and aggressive chemical filtration applications, PF-PT Series cartridges offer a wide range of chemical compatibility with high thermal stability. Suitable for the most demanding microfiltration applications, the cartridges can be used for the filtration of aggressive chemical solutions including acids, alkalis, solvents and etchants.



Maximum Differential Pressure

Normal flow direction at:

20°C (68°F):	6.0bar (87lb/in2)
80°C (176°F):	4.0bar (58lb/in2)
100°C (212°F):	3.0bar (43lb/in2)
120°C (248°F):	2.0bar (29lb/in2)
125°C (257°F):	1.5bar (22lb/in2)

Reverse flow direction at:

20°C (68°F):	2.1bar (30lb/in2)
80°C (176°F):	1.0bar (15lb/in2)
100°C (212°F):	0.5bar (7lb/in2)

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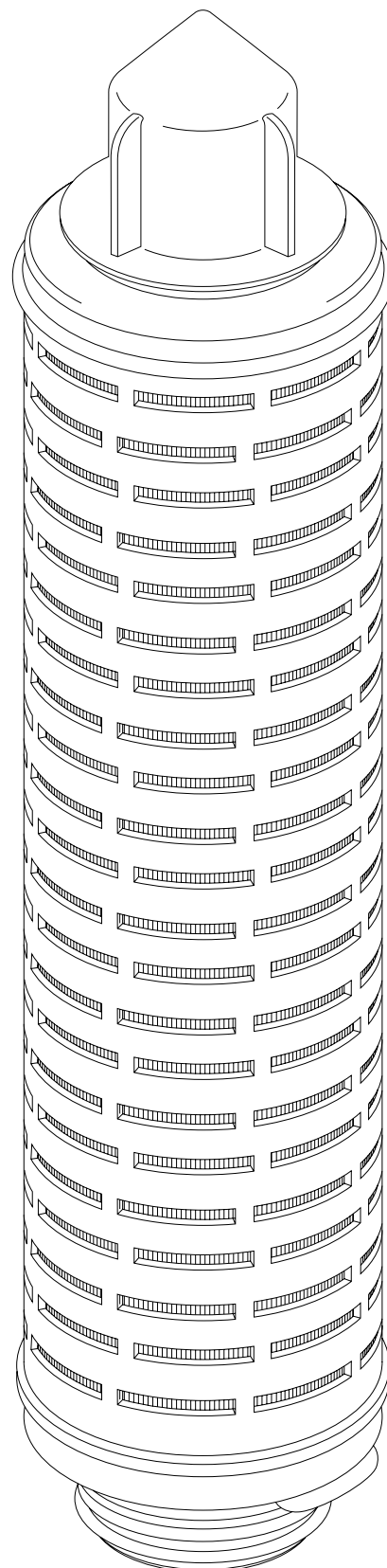
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Element Dimensions (mm)			
Element size	Length	Diameter	Filtration Surface
5" (05/30)	127	70	0,37 m ²
10" (10/30)	254	70	0,73 m ²
20" (20/30)	508	70	1,46 m ²
30" (30/30)	762	70	2,19 m ²
40" (40/30)	1016	70	2,92 m ²

Materials	
Filter membrane	ePTFE
Membrane support	Polypropylene
Irrigation mesh (support)	Polypropylene
Drainage layer	Polypropylene
Inner core	Polypropylene
Outer support	Polypropylene
End fittings	Polypropylene
Sealing	Fusion bonding
O-rings	Silicone (others available)

Features	Benefits
Guaranteed microbial ratings in a liquid challenge	Validated for bacterial removal in liquids in accordance with PDA, HIMA guidelines and ASTM F838-05, with a log reduction value >7.
Flow ΔP characteristics	Exceptionally high gas flow rates at low differential pressure. These features result in lower energy consumption and fewer filter cartridges per system.
Steam sterilisation	PF-PT Series cartridges have been designed and validated to be repeatedly steam sterilised in-situ at temperatures of up to 135°C (275°F) for 100 cycles at 20 minutes per cycle.
Bacterial spores and viruses	The retention of bacterial spores and viruses carried in aerosols over extended time periods has been independently validated in tests.
Cartridge integrity and low TOC levels	All PF-PT Series cartridges are integrity tested and supplied clean, having been flushed with pure water. When required they can be pulse flushed with 18M Ω . cm pyrogen-free ultra-clean water.
Full traceability	All PF-PT Series cartridges are individually and batch identified with a unique serial number.
Controlled manufacturing environment	PF-PT Series cartridges are manufactured in an ISO Cleanroom environment by fully gowned staff, minimising the risk of contamination.





THE SCANDINAVIAN FILTRATION PARTNER

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ABOUT US

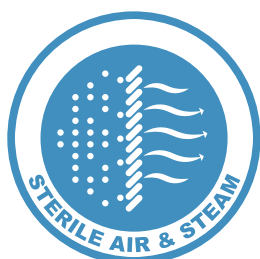
Ultrafilter Scandinavia offers a wide selection of filtration products for compressed air, liquids and gas. We have stock in Denmark and from here we distribute all of our products to Scandinavia and the Baltic countries.

Ultrafilter Scandinavia is a part of the Ultrafilter group. Our production facility is in Germany and we have several subsidiaries in Europe and the United States.

You can buy our products on local websites. Information about our products as well as brochures and manuals can be found on our website (www.ultra-filter.com).

We can adapt all of our filtration products to your needs, and we offer visits from our consultants in order to find the right solution for you. We also offer on going service on our products once they are installed.

FILTRATION OF



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