

Emflon™ PFA

GAS FILTER CARTRIDGES

Emflon™ PFA filters contain a proprietary pleated hydrophobic polytetrafluoroethylene (PTFE) membrane with exceptional flow properties. They are designed for the removal of microorganisms and particles from air and gasses, with optimized pleating configuration and membrane support and a wide bore cartridge core and adapter.

The features and benefits of Emflon PFA filter cartridges include:

- Validated for bacterial removal in air at an aerosol challenge level of 10^7 *Brevundimonas diminuta* ATCC 19146 per 254 mm (10 in.) length cartridge.
- High flow rates and low pressure drop, which allow the use of smaller systems, minimizing installation, filter replacement, and energy costs.
- *In situ* integrity testability by Water Intrusion or Forward Flow methods for maximum convenience and security.
- A long steaming life, offering low-cost filtration.

Applications

- Large-scale fermenter air
- Intermediate product vessel venting
- Autoclave vacuum break
- Instrument air
- Air and gas service lines



Fig 1. Emflon PFA filter cartridges.

Quality

Emflon PFA pharmaceutical grade filters are designed for use in conformance with CGMP in Manufacturing, Processing, Packing or Holding of Drugs (21CFR210) and CGMP for finished Pharmaceuticals (21CFR211.72), including batch release certificate and full traceability.

Validation guide, extractables reports, and regulatory statements are available through our Regulatory Support website. All GMP grade filters are covered under Cytiva's change control policy.

Technical specifications

Typical air flow vs differential pressure (vent application)

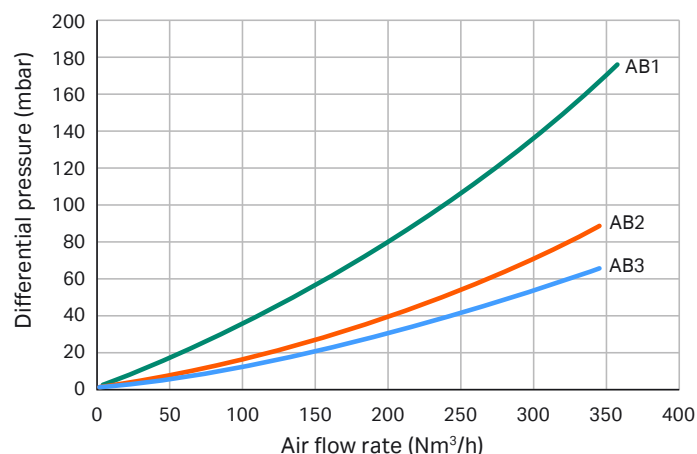


Fig 1. Typical clean pressure drop for 254 mm (10 in.) cartridge (AB1), 508 mm (20 in.) cartridge (AB2), and 762 mm (30 in.) cartridge (AB3), in air at 20°C.

Typical air flow vs differential pressure (2 barg inlet pressure)

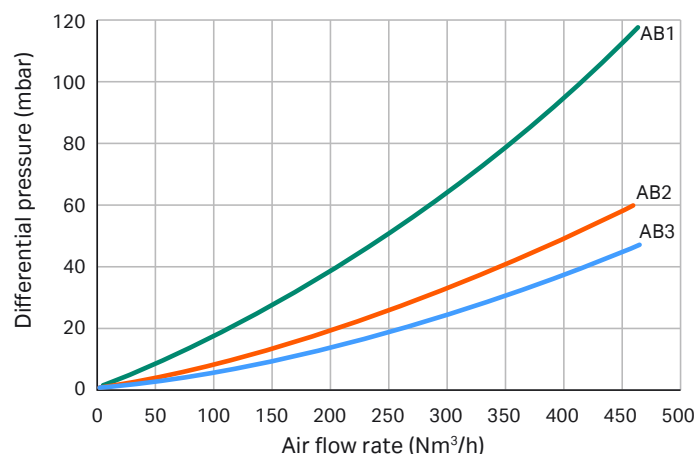


Fig 3. Typical clean pressure drop for 254 mm (10 in.) cartridge (AB1), 508 mm (20 in.) cartridge (AB2), and 762 mm (30 in.) cartridge (AB3), in air, 2 barg inlet pressure at 20°C.

Materials of construction

Components	Material
Membrane	Hydrophobic PTFE
Support and drainage layers	Polypropylene (PP)
End cap, core, and cage	PP
Code 7 adapter	PP with encapsulated stainless steel reinforcing ring

Nominal filter area

254 mm (10 in.) cartridge	0.8 m ²
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Maximum differential pressure¹

Forward direction	
Steam up to 125°C	0.3 bar

¹ Validated using 1 hour cycles.

Cumulative steam life²

Up to 125°C	100 hours
Up to 140°C	40 hours

² Validated using 1 hour cycles. The steam life and service life data were determined by testing under controlled laboratory conditions up to the time indicated. Actual operating conditions may affect the filters' long-term resistance to steam sterilization and hot air service. Filters should be qualified for each process application.

Service life in air

60°C pressurized air	Typically 12 months
80°C vent service	Typically 6 months

Ordering information

Example part number AB1PFA7PVH4

AB		PFA	
Code	Style	Code	Cartridge style
05	5 in. (127 mm)	2 ³	Double 226 O-ring with bayonet lock and flat end
1	10 in. (254 mm)		
2	20 in. (508 mm)	7	Double 226 O-ring with bayonet lock and fin end
3	30 in. (762 mm)		

		V	
Code	Filter grade	Code	O ring material ⁴
P	Pharmaceutical	H4	Silicone
	General use	J	Ethylene propylene rubber

³ AB05 cartridges only

⁴ Other O-ring materials available on request

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