

Emflon® PFR Filters



High Strength, Long Life Sterilizing Filters for Air and Gas

Features

- Comprehensive validation
- High flow rates and low pressure drop
- Robust construction
- Long steaming life and long service Benefits

Benefits

- Assures highest removal efficiency and highest safety margins
- Allows use of small systems, reducing installation and running costs
- ▶ Ensures integrity and reliability
- Offers low cost filtration

Filtration. Separation. Solution.sm

Description

Superior Performance

Emflon PFR filters provide high assurance of filter integrity and long life, even during continuous use in hot air up to 60 °C, in vent applications up to 80 °C and during repeated steaming. This is combined with high flow rates and excellent de-wetting characteristics resulting in very economical filtration through the use of smaller installations and reduced energy costs. Emflon PFR filters have an absolute removal rating of 0.2 μm in liquids and 0.003 μm in gases and have been validated by:-

- Brevundimonas (Pseudomonas) diminuta liquid challenge at 10⁷/cm²
- ▶ Brevundimonas (Pseudomonas) diminuta aerosol challenge
- ▶ PP7 bacteriophage aerosol challenge
- Airborne sodium chloride aerosol challenge at 100 L/min flow (0.003 µm rated in gases)

Specifications

Materials Of Construction

Membrane	Double layer hydrophobic PTFE	
Support and Drainage Layers	Polypropylene, oxidation resistant	
Core, Cage, End Caps	Polypropylene, oxidation resistant	
Adapters	Polymeric, encapsulated in	
	oxygen-resistant polypropylene	

Maximum Differential Pressure

Temperature	Forward Direction	Reverse Direction
Up to 40 °C	5.3 bar (76.8 psi)	3.0 bar ² (43.5 psi)
Up to 80 °C	4.1 bar (60 psi)	_
Steam up to 125 °C	1.0 bar (14.5 psi)	0.5 bar (7.3 psi)
Steam up to 142 °C	0.3 bar (4.4 psi)	0.2 bar (3.0 psi)

²Excursion conditions only

Service Life in Air

Temperature	Service Life
60 °C Pressurized Air	Typically 12 months
80 °C Vent Service	Typically 6 months

Effective Surface Area

AB1PFR7PVH4	0.8 m ² (8.6 ft ²)
/\UIIIIIII VIIT	0.0 111 (0.0 11)

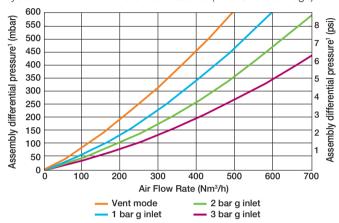
Cumulative Steam Life³

Up to 142 °C and 0.3 bar ΔP	AB05	AB 1,2,3	
	100 hours	165 hours	

³ 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 filter's long term resistance to steam sterilization and hot air service. Filters should be qualified for each process application.

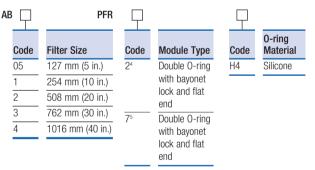
Figure 1

System Air Flow vs. Differential Pressure (AB1 Size Cartridge)



Ordering Information

Emflon PFR Part Number: (example: AB2PFR7PVH4)



Pall Corporation has offices and plants throughout the world in locations such as: Argentina, Australia, Australia, Australia, Belgium, Brazil, Canada, China, France, Germany, India, Indonesia, Ireland, Italy, Japan, Korea, Malaysia, Mexico,

the Netherlands, New Zealand, Norway, Poland, Puerto Rico, Russia, Singapore, South Africa, Spain, Sweden,

Switzerland, Taiwan, Thailand, the United Kingdom, the United States, and Venezuela. Distributors in all major

The information provided in this literature was reviewed for accuracy at the time of publication. Product data may be subject to change without notice. For current information consult your local Pall distributor or contact Pall directly

Visit us on the Web at www.pall.com E-mail us at genedisc@pall.com



Corporate Headquarters Port Washington, NY, USA

+1.800.717.7255 toll free (USA) +1.516.484.5400 phone biopharm@pall.com e-mail

European Headquarters

Fribourg, Switzerland +41 (0)26 350 53 00 phone LifeSciences.EU@pall.com e-mail

Asia-Pacific Headquarters

Singapore +65 6389 6500 phone sgcustomerservice@pall.com e-mail

© 2013, Pall Corporation. Pall, (PALL) and Emflon are trademarks of Pall Corporation. ® indicates a trademark registered in the USA and ™ indicates a common law trademark Filtration. Separation. Solution. is a service mark of Pall Corporation.

International Offices

⁴AB05 cartridges only, ⁵AB 1, 2, 3 cartridges only