

## Short giants applications

Main and fine air filtration units for general ventilation and air conditioning equipment where restricted space requirements are a limiting factor for offices, shopping centers, schools, theatres, industrial plants, food processing facilities, laboratories etc. Also as pre-filter in supply air units for car paint spray cabins as well as protective pre-filter for electrical equipment, electric motors, fine-, super-fine and absolute (HEPA) filtration systems.

A synthetic fiber-based pocket filter developed and

## Media

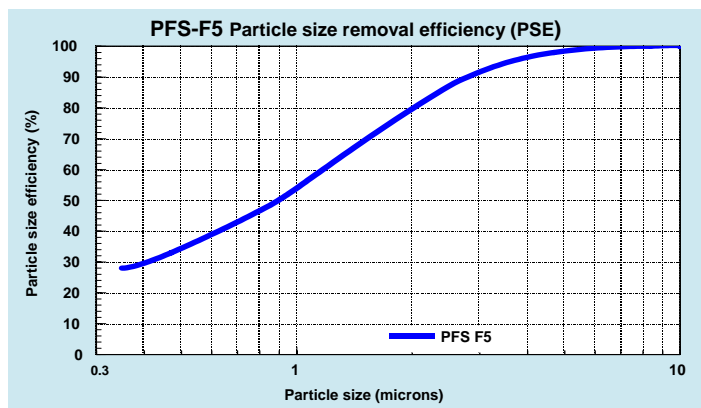
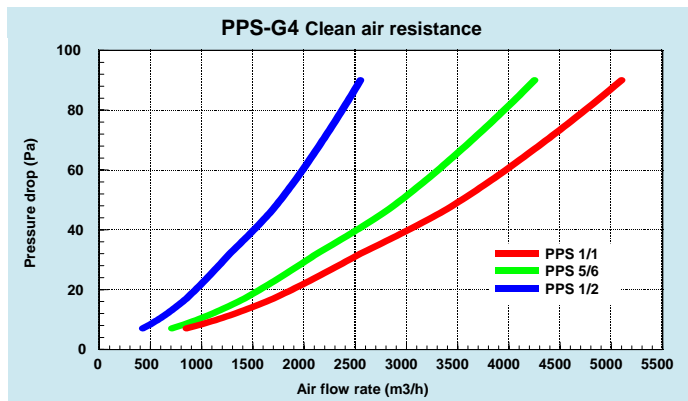
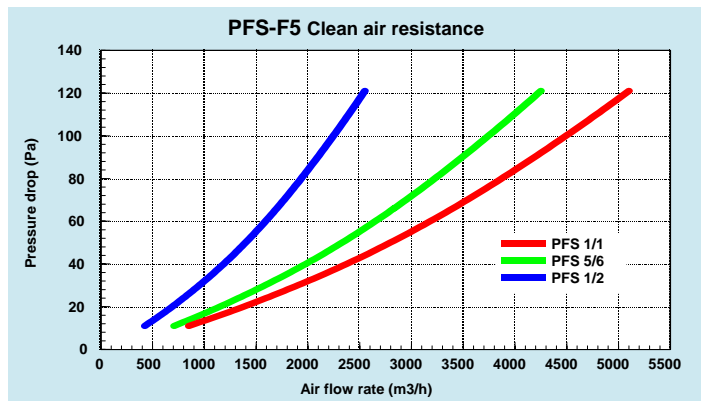
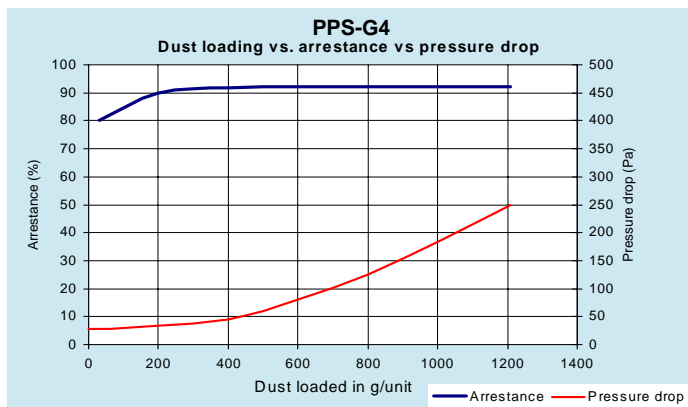
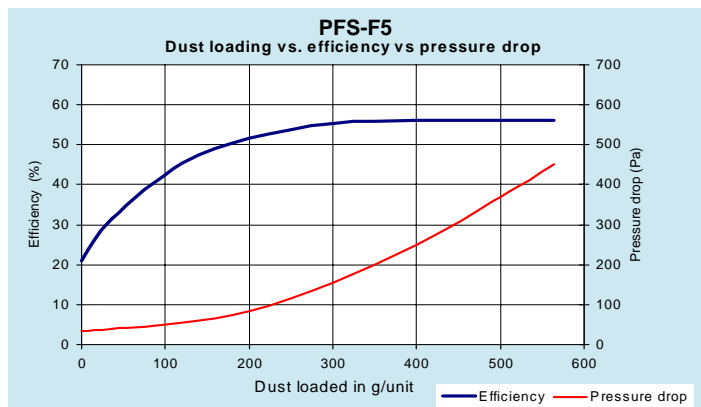
manufactured at Filtrair's own high-tech media plant. The filter medium is constructed from selected high performance fibers in a progressive density multi-layering technique to ensure high depth loading with optimal lowest pressure drop performance. This results in long filter life and usage, high fractional efficiency combined with relatively high dust loading and low energy and maintenance costs. The PPS-G4 and PFS-F5 are 100% synthetic,

corrosion-free and humidity-resistant products. They conform to all European Union and U.S. fire classifications (e.g. DIN 53438-F1 and UL 900-2). The pocket media are inherently rigid, with a welded rib construction to form pockets with the highest possible functional security in even the most brutal air pressure and high dust-laden environments. The leak-free constructions in aerodynamic format and the embedded media in form-stable reinforced plastic front-headers guarantee highest performance in most environments.

Filtrair inherently rigid pocket filters are metal free and thus do not corrode, can be incinerated and withstand 100% humidity environments with ease.

Constant quality is assured by independent quality control according to EN-779, ANSI/ASHRAE 52.1 and the individual DIN control registration number, which is imprinted on each unit, with the G4 and F5 classification and the Filtrair logo and brand name.

# Filtration technical performance characteristics (according to EN 779, ANSI/ASHRAE 52.1-1992)



	<b>PFS</b>	<b>PPS</b>
Average arrestance (acc. EN779)	94%	91%
Initial efficiency (dust spot)	21%	<20%
Average efficiency (dust spot)	50%	n.a.
Air velocity	2.6 m/s	2.6 m/s
Rated air flow	3400 m³/h	3400 m³/h
Initial pressure drop	65 Pa	45 Pa
Tested final pressure drop	450 Pa	250 Pa
Dust holding at tested final	530 g	1100 g

## Application specialty

### Expertly suited for:

- high volume air handling units with restricted space requirement, facing large industrial atmospheric and also seasonal in-organic dust concentrations.
- installations with restricted space requirement, where guaranteed functional security is a must, even in 100% humidity conditions, laden with sea salt crystals.

### Most often installed in air handling units for:

- heavy- and metal industry
- chemical plants
- public arenas
- pharmaceutical and food industry
- optical and electronic industry
- gas turbo and co-generation utility plants
- manufacturing plants of all kind
- paint spray plants
- pre-filtration and recycling of exhaust air
- compressor plants and diesel generator air intakes.

*All data given are average indicative values with usual accepted tolerances due to manufacturing variations and inherent testing tolerances. All specific performance data will require our explicit written confirmation.*  
**Filtrair®** is the registered trade mark of Filtrair bv.

## Technical data

<b>PFS-F5 / PPS-G4</b>		<b>1/1</b>	<b>5/6</b>	<b>1/2</b>
Frontheader	mm	595 x 595	493 x 595	289 x 595
Depth of pocket	mm	310	310	310
No. of pockets		6	5	3
Net effective	m²	2.1	1.75	1.05
Weight	kg	1.7 / 1.8	1.5 / 1.6	1.0 / 1.1
Fitting for	mm	610 x 610	508 x 610	305 x 610
Temp. resistance	°C	70	70	70
Short peaks	°C	90	90	90



Filtrair bv  
 De Werf 16, 8447 GE Heerenveen  
 P.O. Box 611, 8440 AP Heerenveen  
 The Netherlands

Tel. \*31 (0) 513-626355  
 Fax \*31 (0) 513-627306  
 E-mail: marketing@filtrair.com  
 www.filtrair.com

