

Performer applications

Fine air filtration unit for general ventilation and air conditioning equipment installed in offices, shopping centers, schools, theatres, hotels, industrial plants, food processing facilities, laboratories etc. Also as pre-filter in the supply air units for car paint spray cabins, as well as pre-filter for electrical equipment, electric motors and super-fine and absolute (HEPA) filtration systems.

Media

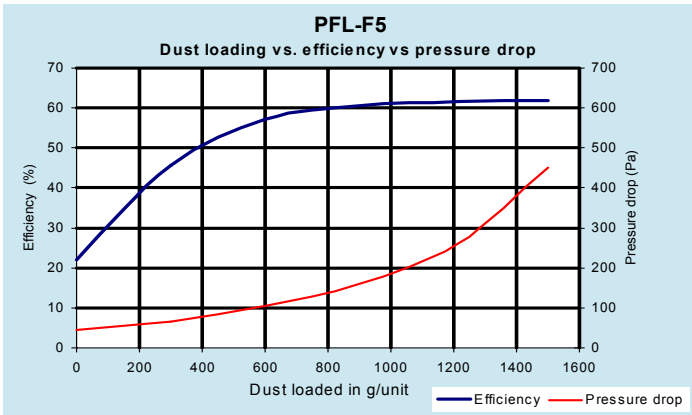
A synthetic fiber-based pocket filter developed and manufactured at Filtrair's own high-tech media plant. The filter medium is constructed from selected high performance fibers in a progressive density multi-layering technique to ensure high depth loading with optimal lowest pressure drop performance.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

The PFL-F5 is a 100% synthetic, corrosion-free and humidity-resistant product. It conforms to all European Union and U.S. fire classifications (e.g. DIN 53438-F1 and UL 900-2). The pocket medium is inherently rigid, with a welded rib construction to form a pocket with the highest possible functional security in even the most brutal air pressure and high dust-laden environments. The leak-free construction, the incorporated aerodynamic spacers and the embedded medium in a form-stable reinforced plastic front-header guarantee highest performance in most environments.

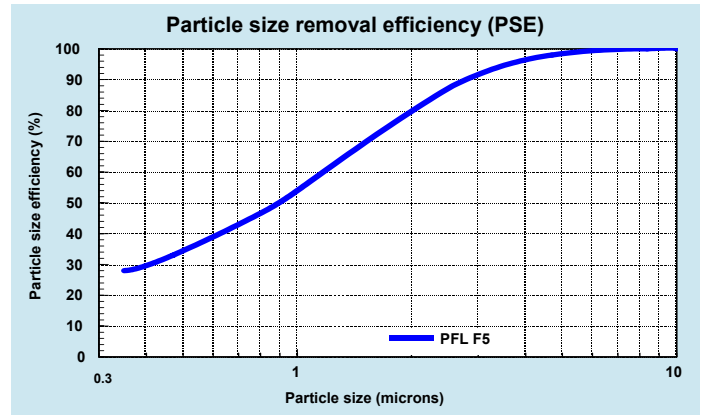
Filtrair inherently rigid pocket filters are metal free and thus do not corrode, can be incinerated and withstand 100% humidity environments with ease.

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 F-5 classification and the Filtrair logo and brand name.

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

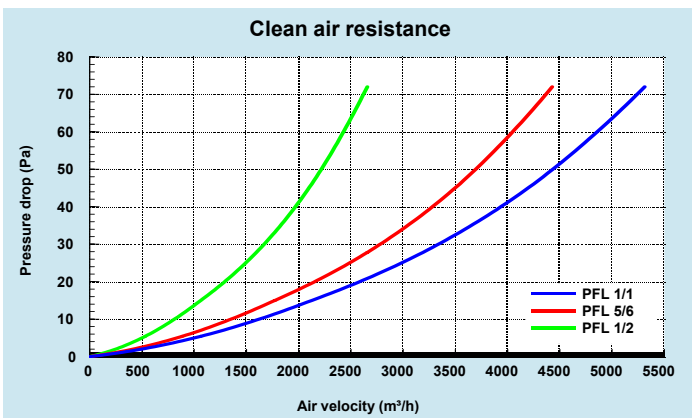


Avg. arrestance (acc. EN 779)	97%
Initial efficiency (dust spot)	22%
Average efficiency (dust spot)	50%
Air velocity	3.2 m/s
Rated air flow	4250 m³/h
Initial pressure drop	45 Pa
Final pressure drop at test	450 Pa
Dust holding at tested final	1450 g/unit



Test conditions for Particle size removal efficiency (PSE):

- air flow rate : 3400 m³/h
- test aerosol : ambient air
- apparatus used: optical particle counter



Application specialty

Expertly suited for:

- high volume air handling units facing large industrial atmospheric and also seasonal in-organic dust concentrations.
- installations 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.

Technical data

PFL-F5		1/1	5/6	1/2	1/4
Fronthead	mm	595 x 595	493 x 595	289 x 595	289 x 289
	mm	600	600	600	600
No. of pockets		6	5	3	4
Net effective	m²	4.2	3.5	2.1	1.0
Weight	kg	2.4	2.0	1.2	0.6
Fitting for	mm	610 x 610	508 x 610	305 x 610	305 x 305
Temp. resistance	°C	70	70	70	70
Short peaks	°C	90	90	90	90

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.



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