

## Turbo applications

Extra fine filtration unit for intake air as well as for exhaust or recycled air in air handling installations that pose stringent requirements to withstand high pressure loads and fine dust concentrations. Filtrair's PTL-F6 is energy efficient and has been specifically designed as an intake air filter for gas turbines, compressors, turbo machinery of all kinds. It is also suited for contaminated air expulsion filtration systems in spray painting plants.

## Media

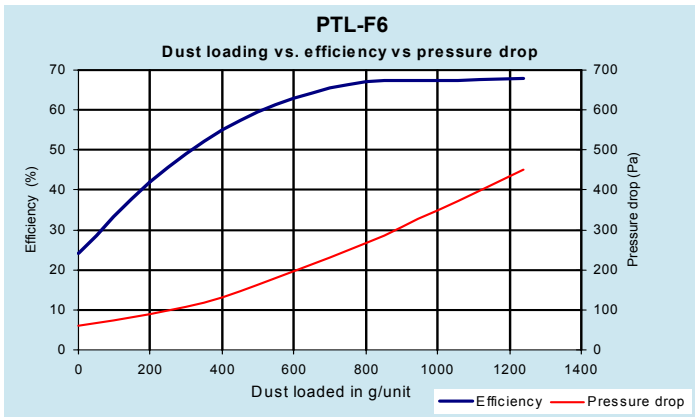
A synthetic fiber-based pocket filter developed and manufactured at Filtrair's own high-tech media plant. The filter medium is constructed from selected high performance fibers in a progressive density multi-layering technique to ensure high depth loading with optimal lowest pressure drop performance.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

The PTL-F6 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.

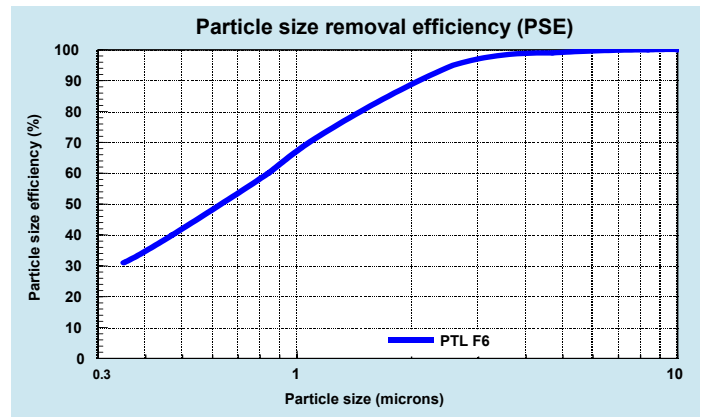
Filtrair inherently rigid pocket filters are metal free and thus do not corrode, can be incinerated and withstand 100% humidity environments with ease.

Constant quality is ensured 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 F6 classification and the Filtrair logo and brand name.

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

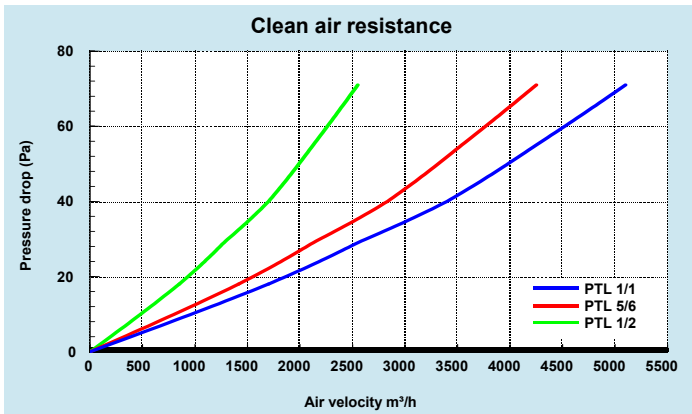


Avg. arrestance (acc. EN 779)	99%
Average efficiency (dust spot)	63%
Rated air flow	4250 m <sup>3</sup>
Initial pressure drop	55 Pa
Final pressure drop at test	450 Pa
Dust holding (AC-fine/1000 Pa)	3000 grs/unit
Bursting pressure	>3000 Pa



Test conditions for PSE:

- air flow rate : 3400 m<sup>3</sup>/h
- test aerosol : ambient air
- apparatus used: optical particle counter



## Application specialty

Uniquely suited for:

- effective separation of aggressive and abrasive particles, combating equipment erosion and enhancing functional efficiency.
- extreme weather and environmentally adverse conditions; even in off-shore high air volume intake systems.

Most often installed in air handling units for:

- gas turbines in electricity generating plants
- utility- and co-generation plants
- off-shore oil and gas exploration platforms
- high air-volume and high final pressure drop conditions
- compressor plants

## Technical data

PTL - F6		1/1	5/6	1/2
Frontheader	mm	595 x 595	493 x 595	289 x 595
Depth of pocket	mm	600	600	600
No. of pockets		8	6	4
Net effective	m <sup>2</sup>	5.6	4.2	2.8
Weight	kg	3.3	2.5	1.7
Fitting for	mm	610 x 610	508 x 610	305 x 610
Temp. resistance	°C	70	70	70
Short peaks	°C	90	90	90

Also applied as second stage pre-filter in air handling units for:

- spray painting plants
- chemical and pharmaceutical manufacturing
- medical facilities and clean rooms
- solving critical air filtration and migratory dust problems
- final polishing filter unit in dust collection installations

*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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