



Ultimate applications

Superfine air filtration unit for general ventilation and air conditioning equipment installed in commercial buildings as well as for handling installations that pose stringent requirements to withstand extremely high pressure loads and micro-fine dust concentrations, and where very high cleanliness is to be ensured. Specifically developed to be used as final air filter in air intake plants for gas turbines, but also ideally suited for hospitals, food processing plants, pharmaceutical plants, computer and telecommunication rooms and other HVAC systems.

Media

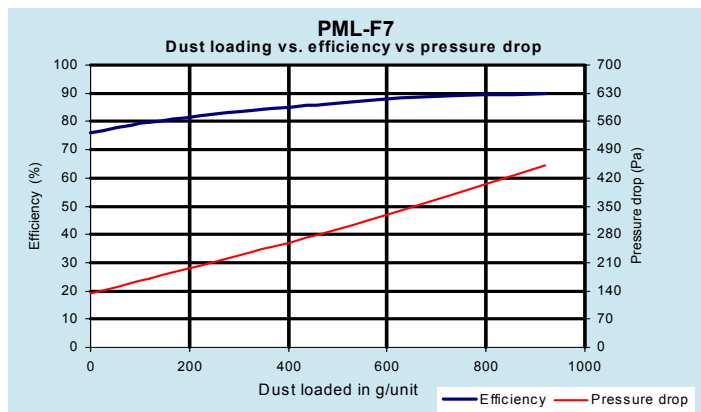
A synthetic fiber-based pocket filter developed and manufactured at Filtrair's own high-tech media plant. The filter medium is constructed from selected high performance fibers in a progressive density multi-layering technique to ensure high-depth loading with optimal lowest pressure drop performance. The PML-F7 medium combines in three sequential progressive density layers, a highly efficient

micro fiber fleece with a pre-filter and a supporting synthetic media layer. This results in a low pressure drop during the life of the filter, as well as high initial and average separation performance right from the first day after installation, long filter life, extreme durability and therefore low energy and maintenance costs.

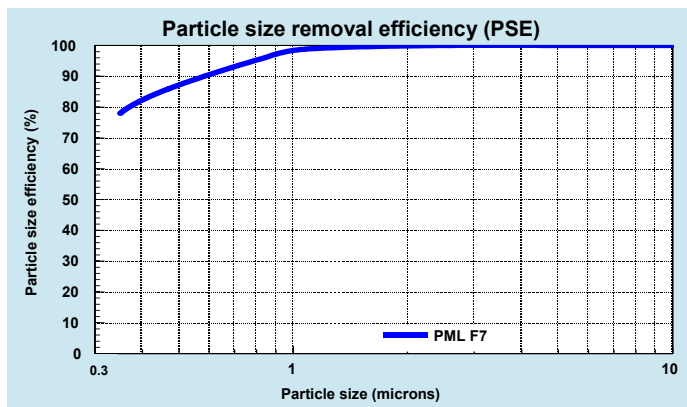
The PML-F7 is a 100% synthetic, corrosion-free product, which resists high humidity, mists and chemicals. It conforms to all European Union and U.S. fire classifications (e.g. DIN 53438-F1 and UL 900-2). The pocket medium is inherently rigid, with a welded rib construction to form a pocket with the highest 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.

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 F7 classification and the Filtrair logo and brand name.

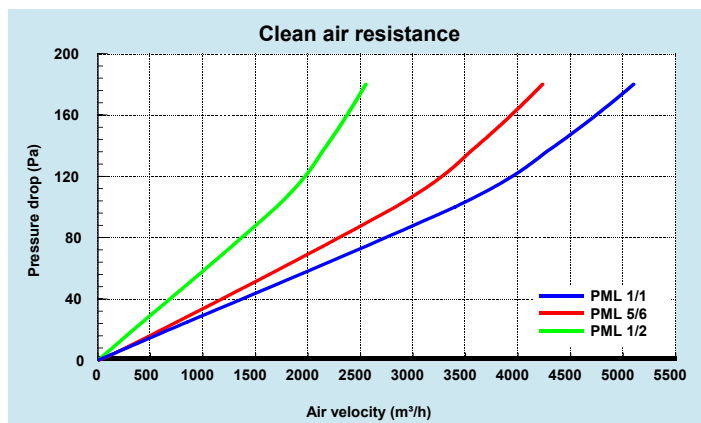
Filtration technical performance characteristics (according to EN 779, ANSI/ASHRAE 52.1-1992)



Avg. arrestance (acc. EN 779)	>99%
Initial efficiency (dust spot)	77%
Average efficiency (dust spot)	88%
Rated air flow	4250 m ³ /h
Initial pressure drop	135 Pa
Final pressure drop at test	450 Pa
Dust holding capacity	920 g/unit
Bursting pressure drop	>3000 Pa



Test conditions for Particle size removal efficiency (PSE):
 - air flow rate : 3400 m³/h/m²
 - 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.
- situations where continuous low pressure drop performance and continuous high efficiency is a must.
- 100% humidity and salt laden air environments.

Most often installed in air handling units for:

- gas turbines, compressors and diesel generators
- spray painting plants and surface finishing applications
- utility- and co-generation plants
- off-shore oil and gas exploration platforms
- pharmaceutical and food processing plants
- computer rooms, telecommunications, optical and electronic facilities
- HVAC-systems installed in laboratories, libraries, museums, airport terminals, medical- and clean room facilities.

Technical data

PML - F7		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 ²	5.6	4.2	2.8
Weight	kg	4.2	3.2	2.0
Fitting for	mm	610 x 610	508 x 610	305 x 610
Temp. resistance	°C	70	70	70
Short peaks	°C	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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