

PLUSAIR SERIES

- **COST EFFICIENT AIR FILTRATION**
- **LOW PRESSURE DROP DESIGN**
- **100% SYNTHETIC MEDIA**
- **HIGH DIRT HOLDING CAPACITY** provides extended life
- **TERMAL POCKET CONSTRUCTION** for high burst strength and ensures no contaminant bypass through stitched holes

DESCRIPTION

Filtrair PlusAir Pocket Filters have been specially developed to guarantee clean air in diverse applications. The PlusAir Pocket Filters can be used in Air Handling units for buildings, schools, Automotive plants, Gas turbines and rotary equipment.

The Filtrair PlusAir is available in filter classes EN779: G4 - M5 - M6 and F7. Filtrair PlusAir filters are manufactured at Filtrair's own high-tech media plant. The filter medium is constructed from selected high performance fibers in a progressive density, dual and triple multi-layering technique to ensure high depth loading with optimal lowest pressure drop performance. This results in long filter life, high fractional efficiency, relatively high dust loading, and low energy and maintenance costs.

Filtrair PlusAir filters 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 medium is semi rigid, with a welded rib construction to form a pocket with the highest possible functional security in even the most extreme air pressure and high dust environments. The leak-free construction and the embedded medium in a stable reinforced plastic front-header guarantee the highest performance in most environments.

Filtrair PlusAir pocket filters are metal free and therefore do not corrode. They can be incinerated and withstand 100% humidity environments with ease.

Consistent quality is ensured by independent quality control according to ISO 16890

FEATURES AND BENEFITS

- **MOLDED HEADER** does not corrode and can be incinerated.
- **RIGID DESIGN AND SYNTHETIC CONSTRUCTION**, allows pockets to withstand 100% humidity environments.
- **VERY LOW RESISTANCE** results in greatly reduced operating costs.
- **HIGH DUST HOLDING CAPACITY** and low pressure drop make the PlusAir Pocket Filters an excellent pre filter.
- **UL 900 CLASS** - conforms to US fire classifications
- **LOW PRESSURE DROP DESIGN** greatly reduces operating costs
 - No glass fiber breakage and shedding
 - Self-extinguishing to DIN 53438, fire class F1

APPLICATIONS

Filtrair's PlusAir Pocket Filters are designed for use as final filters in general ventilation and air conditioning equipment installed in offices, shopping centers, theatres, hotels, industrial plants, food processing plants and laboratories. They are also used as a pre-filter in the air supply units for car paint spray cabins, electrical equipment, electric motors, and superfine and absolute (HEPA) filtration systems.

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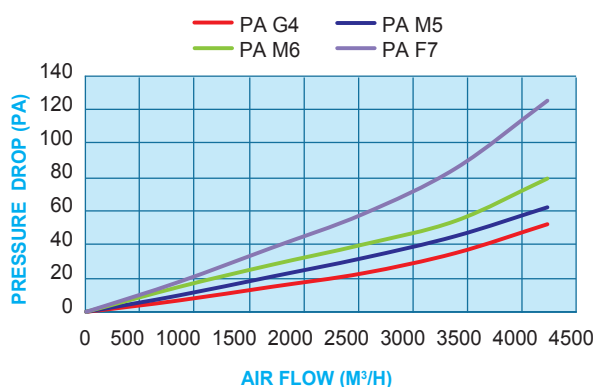
TECHNICAL DATA					
Product	Unit	PlusAir G4	PlusAir M5	PlusAir M6	PlusAir F7
Rated air flow (1/1 size)	m ³ /h	3400	3400	3400	3400
Initial pressure drop at rated air flow (3400 m ³ /h)	Pa	30	45	60	85
Initial pressure drop at rated air flow (4250 m ³ /h)*	Pa	50	65	79	125
Recommended final pressure drop	Pa	250	450	450	450
Filter class per EN779:2012	-	G4	M5	M6	F7
Dust holding capacity (Ashrae dust)	g/unit	1100	1000	950	250

ISO 16890 TECHNICAL DATA					
Class To ISO 16890		ISO coarse 70%	*ePM10 50%	ePM10 60%	ePM10 80%
Particulate matter efficiency					
ePM _{1,0}	%		3	7	41
ePM _{2,5}	%		12	16	52
ePM ₁₀	%		53	61	81
Cut off Particle size	µm	>10	9	9	5
Initial gravimetric Arrestance (%)	%	67			
Dust holding capacity (ISO 12103 A2 Fine)	g/unit	3300	2600	1850	400

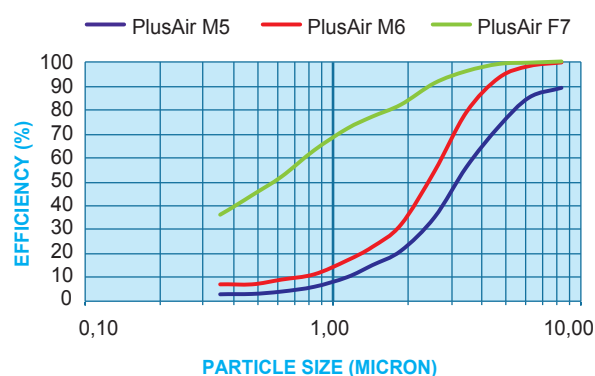
* classification @ 4250 m³/h

PRODUCT GEOMETRIES					
Product Geometries	Unit	PlusAir G4	PlusAir M5	PlusAir M6	PlusAir F7
Filter dimensions	mm	595*595	595*595	595*595	595*595
Filter length	mm	620	620	620	620
Filter medium area	m ²	4,2	4,2	5,6	5,6
Nr. of pockets	-	6	6	8	8
Filter weight	kg	1,9	2,1	2,6	2,3
Package - nr of filters per box	unit	2	2	2	2
Suitable for standard mounting frame	mm	610*610	610*610	610*610	610*610
Maximum continuous working temperature	°C	≤ 70	≤ 70	≤ 70	≤ 70
Admissible relative humidity	%	100	100	100	100
Maximum final operating pressure drop	Pa	600	600	600	600
Burst pressure drop	Pa	> 6000	> 6000	> 6000	> 6000
Options available on request		Gasket 6 mm on downstream, on upstream side or on both sides			

PRESSURE DROP vs AIR FLOW



EFFICIENCY vs PARTICLE SIZE



All data are average indicative values with usual manufacturing and testing tolerances. We reserve the right to modify performance data without prior notice. Specific performance data will require our written confirmation. Filtrair® is the registered trade mark of Filtrair bv.



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