

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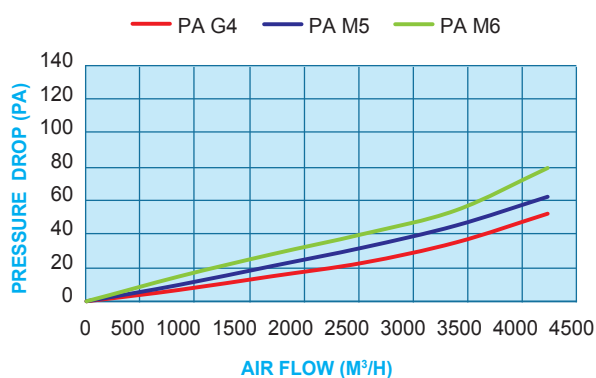
| TECHNICAL DATA | | | | |
|---|-------------------|------------|------------|------------|
| Product | Unit | PlusAir G4 | PlusAir M5 | PlusAir M6 |
| Rated air flow (1/1 size) | m ³ /h | 3400 | 3400 | 3400 |
| Initial pressure drop at rated air flow (3400 m ³ /h) | Pa | 30 | 45 | 60 |
| Initial pressure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

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

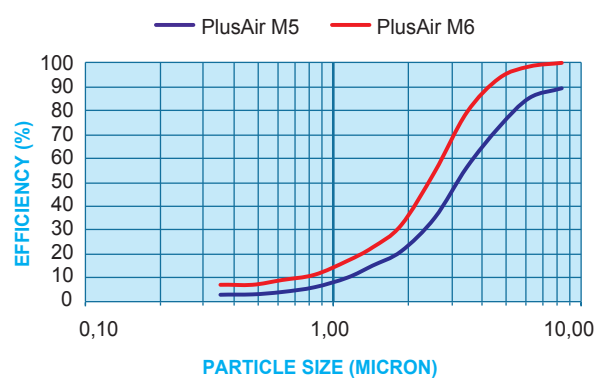
* classification @ 4250 m³/h

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