



AirSyntex

Air Filters

Fire retardant to DIN53438-3 (F1)



Certificate No: 15.06.011. Volz GmbH.



M5/ePM 10 55%



Filter class to ISO 16890	ePM 10 55%	
Average efficiency	ePM 1	27%
	ePM 2,5	31%
	ePM 10	59%

Our M5 **AirSyntex** Air Filters achieve ePM 10 55% delivering consistent energy efficient performance.

Tested according to ISO 16890/EN 779:2012, **AirSyntex** are Eurovent approved and used widely across a number of environments including retail, commercial, healthcare, education, engineering, hotels, leisure and pharmaceutical.

AirSyntex Air Filters are the leading choice for a fully compliant, clean air solution.



THE KEY BENEFITS

1 — Excellent service life

The tight woven, ultra-fine fibre structure with two stage filtration ensures high dust holding capacity for longer service life with a low initial and average pressure drop, saving time, energy and reducing costs.

2 — Tested according to ISO 16890, EN 779:2012 and Eurovent approved

With third party Eurovent approval, ISO 16890/ EN 779:2012 certification you can be confident that **AirSyntex** will perform consistently at the specified energy and performance standards. In addition to this they are tested to fire prevention requirements DIN 53438-3 (F1).

3 — Environmentally friendly

AirSyntex are Oeko-Tex 100 approved, meaning they are free from harmful substances and skin irritant. The plastic frame option offers the additional benefit of being fully incinerable eliminating the need for landfill.



Air conditioning & ventilation technology



Painting & drying technology

AirSyntex

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VERSIONS

- Full range of standard sizes, bespoke sizes available
- Frame types:
 - Metal frame (20 or 25mm)
 - Plastic frame (25mm)
- Filters with plastic frames are fully incinerable
- Option to have a foamed hygiene-gasket

MATERIAL CHARACTERISTICS

- Tested according to EN 779:2012, ISO 16890 and Eurovent approved
- Fire prevention requirements according to DIN53438-3 (F1)
- Oeko-Tex 100 approved, environmentally friendly so can be incinerated rather than going to landfill (when choosing plastic frames)
- Humidity resistant up to 100% r. h.
- Lacquer compatibility according to IPA-control
- Environmentally safe non-shedding synthetic fibres
- Temperature resistant up to a maximum of 70°C depending on type of frame

APPLICATIONS

For fine filtration in heat ventilation and air conditioning devices and plants of all kinds.

- Offices, hospitals, computing centres
- Pharmaceutical, fine-mechanical and food industry
- Prefiltration e.g. for HEPA filters

CLASSIFICATION

- Filter class M5/ePM 10 55%

How to install pocket filters

POCKETS FULLY OPEN

Correct
Pockets stand vertically and are open to enable maximum dust holding.

POCKETS CLOSED

Incorrect
Pockets fall, unable to hold the maximum dust capacity, with lower pockets running the risk of absorbing condensed water.

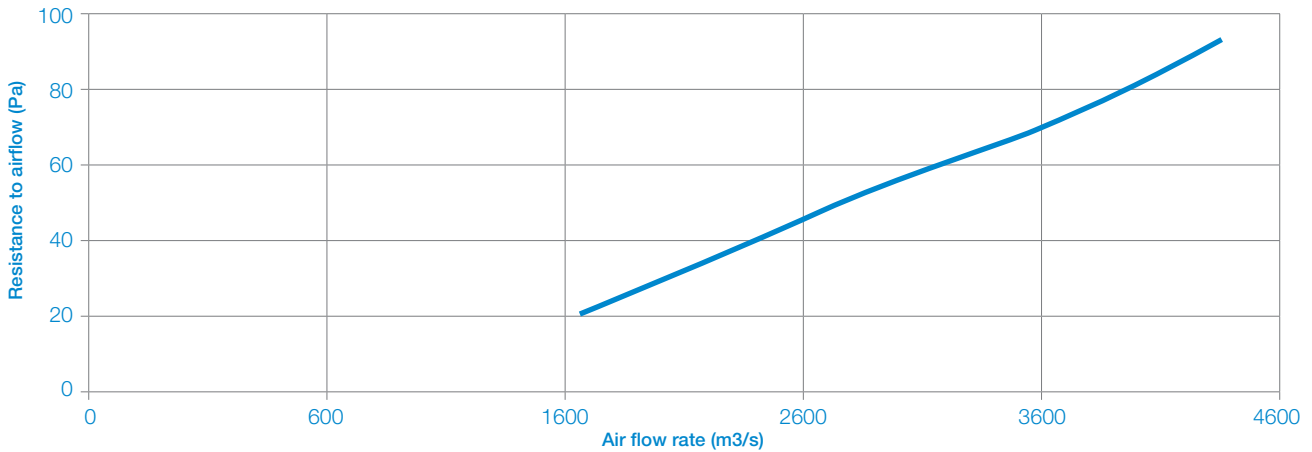
Technical data:	
Medium	Synthetic - Progressive microfibre
Colour medium	Brown
Frame	Plastic frame (25 mm) Metal frame (20 or 25 mm)
Filter dimensions (W x H x D)	592 x 592 x 635 (mm)
Number of pockets	10
Filter area [m²]	7.5
Filter class	M5/ePM 10 55%
Energy Class	2.347 kWh/Year
Recommended nominal air flow (m³/h)	3400
Maximum air flow (m³/h)	4250
Initial pressure drop approx. (Pa) @ 3400m³/h	65
Recommended final pressure drop (Pa)	300
Average arrestance (%)	≥ 90
Average efficiency (0,4 µm) (%)	≥ 80 < 90
Discharged efficiency of medium (0,4 m) (%)	> 35
Maximum humidity resistance (%)	100
Max. operating temperature (°C) - depending on type of frame	70



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Performance Graph (592 x 592 x 635, 10 Pocket)



Standard Frame Sizes & Pocket Lengths*

Dimensions (mm) (width x height x depth)	Number of pockets	Filter area (m ²)	Nominal air flow (m ³ /h) Initial pressure drop (Pa)
287 x 287 x 360	3	0.6	500 / 95Pa
287 x 592 x 360	3	1.3	1.000 / 95Pa
287 x 892 x 360	3	1.9	1.500 / 95Pa
490 x 592 x 360	5	2.1	1.600 / 95Pa
490 x 892 x 360	5	3.2	2.500 / 95Pa
592 x 287 x 360	6	1.2	900 / 95Pa
592 x 490 x 360	6	2.1	1.600 / 95Pa
592 x 892 x 360	6	3.9	3.000 / 95Pa
287 x 287 x 500	3	0.9	700 / 95Pa
287 x 592 x 500	3	1.8	1.400 / 95Pa
287 x 892 x 500	3	2.7	2.100 / 95Pa
490 x 592 x 500	5	3.0	2.300 / 95Pa
490 x 892 x 500	5	4.5	3.500 / 95Pa
592 x 287 x 500	6	1.7	1.300 / 95Pa
592 x 490 x 500	6	2.9	2.300 / 95Pa
592 x 892 x 500	6	5.4	4.200 / 95Pa
287 x 287 x 635	5	1.8	800 / 65Pa
287 x 592 x 635	5	3.8	1.700 / 65Pa
287 x 892 x 635	5	5.7	2.600 / 65Pa
490 x 592 x 635	8	6.0	2.700 / 65Pa
490 x 892 x 635	8	9.1	4.100 / 65Pa
592 x 287 x 635	10	3.6	1.600 / 65Pa
592 x 490 x 635	10	6.2	2.800 / 65Pa
592 x 892 x 635	10	11.3	5.100 / 65Pa