



AirSyntex

Air Filters

F9 - ePM 1 80%



Fire retardant to DIN53438-3 (F1)



Certificate No: 15.06.011. Volz GmbH.

Our F9 **AirSyntex** Air Filters achieve ePM 1 80% delivering consistent energy efficient performance.

Tested according to ISO 16890 - EN 779:2012, and Eurovent approved, **AirSyntex** are 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 and 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



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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 F9 - ePM 1 80%

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.

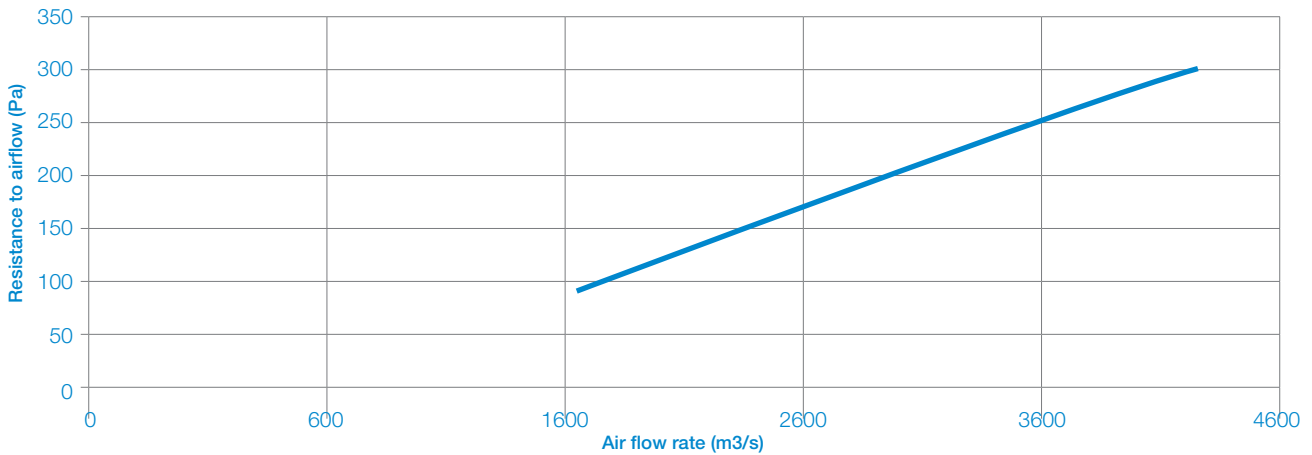
Technical data:	
Medium	Synthetic - Progressive microfibre
Colour medium	White
Frame	Plastic frame (25 mm) Metal frame (20 or 25 mm)
Filter dimensions (W x H x D)	592 x 592 x 635 (mm)
Number of pockets	10
Filter area [m²]	7.5
Filter class	F9 - ePM 1 80%
Energy Class	3.391 kWh/Year
Recommended nominal air flow (m³/h)	3400
Maximum air flow (m³/h)	4250
Initial pressure drop approx. (Pa)	220
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 / 192Pa
287 x 592 x 360	3	1.3	1.000 / 192Pa
287 x 892 x 360	3	1.9	1.500 / 192Pa
490 x 592 x 360	5	2.1	1.600 / 192Pa
490 x 892 x 360	5	3.2	2.500 / 192Pa
592 x 287 x 360	6	1.2	900 / 192Pa
592 x 490 x 360	6	2.1	1.600 / 192Pa
592 x 892 x 360	6	3.9	3.000 / 192Pa
287 x 287 x 500	3	0.9	700 / 192Pa
287 x 592 x 500	3	1.8	1.400 / 192Pa
287 x 892 x 500	3	2.7	2.100 / 192Pa
490 x 592 x 500	5	3.0	2.300 / 192Pa
490 x 892 x 500	5	4.5	3.500 / 192Pa
592 x 287 x 500	6	1.7	1.300 / 192Pa
592 x 490 x 500	6	2.9	2.300 / 192Pa
592 x 892 x 500	6	5.4	4.200 / 192Pa
287 x 287 x 635	5	1.8	800 / 220Pa
287 x 592 x 635	5	3.8	1.700 / 220Pa
287 x 892 x 635	5	5.7	2.600 / 220Pa
490 x 592 x 635	8	6.0	2.700 / 220Pa
490 x 892 x 635	8	9.1	4.100 / 220Pa
592 x 287 x 635	10	3.6	1.600 / 220Pa
592 x 490 x 635	10	6.2	2.800 / 220Pa
592 x 892 x 635	10	11.3	5.100 / 220Pa