



# ProSyntex

## Air Filters

F8 - ePM 1 55%



Fire retardant to DIN53438-3 (F1)



Certificate No: 15.06.011. Volz GmbH.

Our premium F8 **ProSyntex** Air Filters achieve ePM 1 55% and are manufactured utilising a three-staged filter system, delivering consistent energy efficient performance.

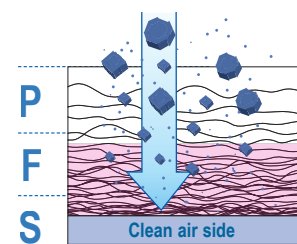
Tested according to ISO 16890 - EN 779:2012, **ProSyntex** are Eurovent approved and certified by the Institute for Air Hygiene, making it the obvious choice for leading OEM's, FM companies and major brands throughout the UK and Europe.

Filter class acc. to ISO 16890	ePM 1 55%	
Average efficiency	ePM 1	59%
	ePM 2.5	86%
	ePM 10	96%



### THE KEY BENEFITS

- 1 — Three layered filtration**  
The energy efficient 3-layer filter system provides fine filtration and high dust holding capacity, delivering a low initial and high final pressure differential.
- 2 — Extended service life**  
The three stage filter system greatly improves service life by over 100%, reducing filter changes and consequently labour cost and landfill waste.
- 3 — 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 **ProSyntex** 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).
- 4 — Environmentally friendly**  
**ProSyntex** 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.



**ProSyntex offers three layers of filtration.**



**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 F8 - ePM 1 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.

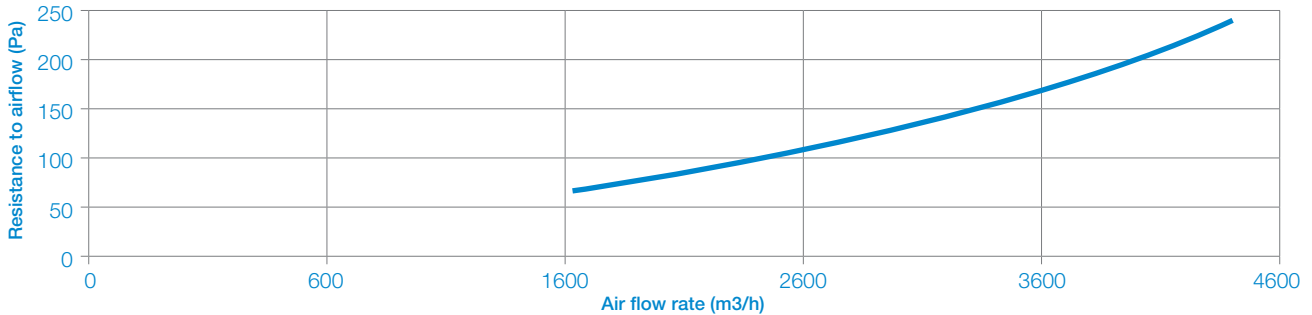
Technical data:	
Medium	Synthetic - Progressive microfibre
Colour medium	White
Frame	Plastic frame (25 mm) Metal frame (20 or 25 mm)
Filter dimensions (W x H x D)	592 x 592 x 635 (mm)
Number of pockets	10
Filter area [m <sup>2</sup> ]	7.5
Filter class	F8 - ePM 1 55%
Recommended nominal air flow (m <sup>3</sup> /h)	3400
Optimal air flow (m <sup>3</sup> /h)	4250
Initial pressure drop approx. (Pa)	153
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 365, 10 Pocket)**



**Standard Frame Sizes & Pocket Lengths\***

Dimensions (mm) (width x height x depth)	Number of pockets	Filter area (m <sup>2</sup> )	Nominal air flow (m <sup>3</sup> /h) Initial pressure drop (Pa)
287 x 287 x 360	3	0.6	500 / 129Pa
287 x 592 x 360	3	1.3	1.000 / 129Pa
287 x 892 x 360	3	1.9	1.500 / 129Pa
490 x 592 x 360	5	2.1	1.600 / 129Pa
490 x 892 x 360	5	3.2	2.500 / 129Pa
592 x 287 x 360	6	1.2	900 / 129Pa
592 x 490 x 360	6	2.1	1.600 / 129Pa
592 x 892 x 360	6	3.9	3.000 / 129Pa
287 x 287 x 500	3	0.9	700 / 129Pa
287 x 592 x 500	3	1.8	1.400 / 129Pa
287 x 892 x 500	3	2.7	2.100 / 129Pa
490 x 592 x 500	5	3.0	2.300 / 129Pa
490 x 892 x 500	5	4.5	3.500 / 129Pa
592 x 287 x 500	6	1.7	1.300 / 129Pa
592 x 490 x 500	6	2.9	2.300 / 129Pa
592 x 892 x 500	6	5.4	4.200 / 129Pa
287 x 287 x 360	4	0.8	500 / 133Pa
287 x 592 x 360	4	1.7	1.000 / 133Pa
287 x 892 x 360	4	2.6	1.500 / 133Pa
490 x 592 x 360	6	2.6	1.500 / 133Pa
490 x 892 x 360	6	3.9	2.300 / 133Pa
592 x 287 x 360	8	1.7	1.000 / 133Pa
592 x 490 x 360	8	2.8	1.600 / 133Pa
592 x 892 x 360	8	5.1	3.000 / 133Pa



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Standard Frame Sizes & Pocket Lengths*			
Dimensions (mm) (width x height x depth)	Number of pockets	Filter area (m <sup>2</sup> )	Nominal air flow (m <sup>3</sup> /h) Initial pressure drop (Pa)
287 x 287 x 500	4	1.2	700 / 133Pa
287 x 592 x 500	4	2.4	1.400 / 133Pa
287 x 892 x 500	4	3.6	2.100 / 133Pa
490 x 592 x 500	6	3.6	2.100 / 133Pa
490 x 892 x 500	6	5.4	3.200 / 133Pa
592 x 287 x 500	8	2.3	1.400 / 133Pa
592 x 490 x 500	8	3.9	2.300 / 133Pa
592 x 892 x 500	8	7.1	4.200 / 133Pa
287 x 287 x 635	5	1.8	800 / 153Pa
287 x 592 x 635	5	3.8	1.700 / 153Pa
287 x 892 x 635	5	5.7	2.600 / 153Pa
490 x 592 x 635	8	6.0	2.700 / 153Pa
490 x 892 x 635	8	9.1	4.100 / 153Pa
592 x 287 x 635	10	3.6	1.600 / 153Pa
592 x 490 x 635	10	6.2	2.800 / 153Pa
592 x 892 x 635	10	11.3	5.100 / 153Pa