



# ProSyntex

## Air Filters

F7 - ePM 2.5 60%



Fire retardant to DIN53438-3 (F1)



Certificate No: 15.06.011. Volz GmbH.

Our premium F7 **ProSyntex** Air Filters achieve ePM 2.5 60% and are manufactured utilising a three-staged filter system, delivering consistent energy efficient performance.

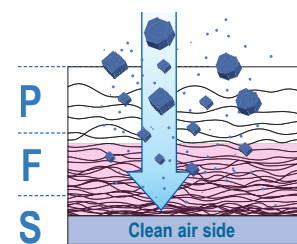
Tested according to ISO 16890 - EN 779:2012, **ProSyntex** are Eurovent approved and certified by the Institute for Air Hygiene, making it the obvious choice for leading OEM's, FM companies and major brands throughout the UK and Europe.

Filter class acc. to ISO 16890	ePM 2.5 60%	
Average efficiency	ePM 1	55%
	ePM 2.5	64%
	ePM 10	88%



### 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.
- 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 F7 - ePM 2.5 60%

### 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.

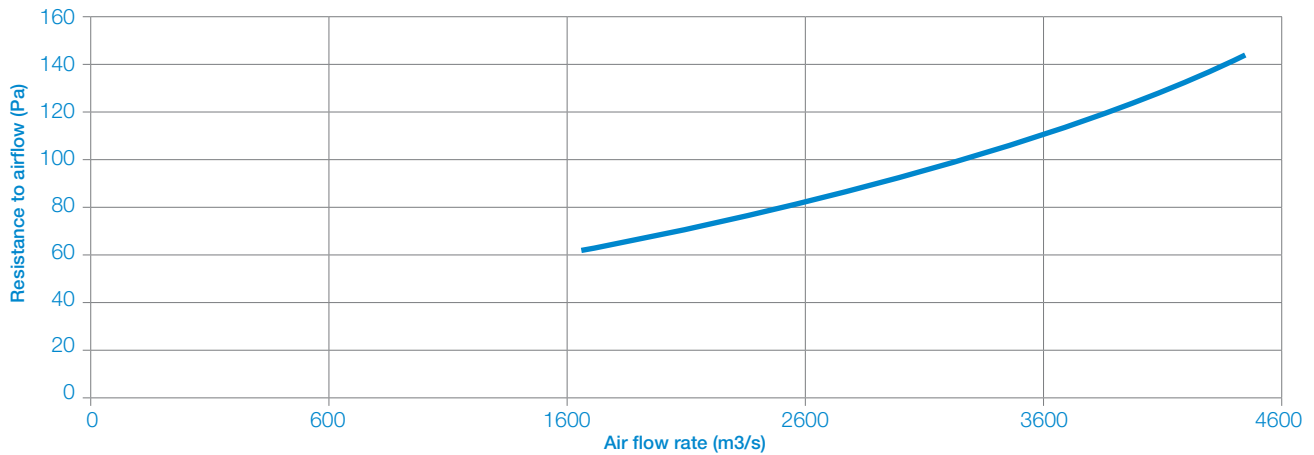
Technical data:	
<b>Medium</b>	Synthetic - Progressive microfibre
<b>Colour medium</b>	Pink
<b>Frame</b>	Plastic frame (25 mm) Metal frame (20 or 25 mm)
<b>Filter dimensions (W x H x D)</b>	592 x 592 x 635 (mm)
<b>Number of pockets</b>	10
<b>Filter area [m²]</b>	7.5
<b>Filter class</b>	F7 - ePM 2.5 60%
<b>Energy Class</b>	1.308 kWh/Per Year
<b>Recommended nominal air flow (m³/h)</b>	3400
<b>Optimal air flow (m³/h)</b>	4250
<b>Initial pressure drop approx. (Pa)</b>	97
<b>Recommended final pressure drop (Pa)</b>	300
<b>Average arrestance (%)</b>	≥ 90
<b>Average efficiency (0,4 µm) (%)</b>	≥ 80 < 90
<b>Discharged efficiency of medium (0,4 m) (%)</b>	> 35
<b>Maximum humidity resistance (%)</b>	100
<b>Max. operating temperature (°C) - depending on type of frame</b>	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 / 101Pa
287 x 592 x 360	3	1.3	1.000 / 101Pa
287 x 892 x 360	3	1.9	1.500 / 101Pa
490 x 592 x 360	5	2.1	1.600 / 101Pa
490 x 892 x 360	5	3.2	2.500 / 101Pa
592 x 287 x 360	6	1.2	900 / 101Pa
592 x 490 x 360	6	2.1	1.600 / 101Pa
592 x 892 x 360	6	3.9	3.000 / 101Pa
287 x 287 x 500	3	0.9	700 / 114Pa
287 x 592 x 500	3	1.8	1.400 / 114Pa
287 x 892 x 500	3	2.7	2.100 / 114Pa
490 x 592 x 500	5	3.0	2.300 / 114Pa
490 x 892 x 500	5	4.5	3.500 / 114Pa
592 x 287 x 500	6	1.7	1.300 / 114Pa
592 x 490 x 500	6	2.9	2.300 / 114Pa
592 x 892 x 500	6	5.4	4.200 / 114Pa
287 x 287 x 360	4	0.8	500 / 84Pa
287 x 592 x 360	4	1.7	1.000 / 84Pa
287 x 892 x 360	4	2.6	1.500 / 84Pa
490 x 592 x 360	6	2.6	1.500 / 84Pa
490 x 892 x 360	6	3.9	2.300 / 84Pa
592 x 287 x 360	8	1.7	1.000 / 84Pa
592 x 490 x 360	8	2.8	1.600 / 84Pa
592 x 892 x 360	8	5.1	3.000 / 84Pa



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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 / 118Pa
287 x 592 x 500	4	2.4	1.400 / 118Pa
287 x 892 x 500	4	3.6	2.100 / 118Pa
490 x 592 x 500	6	3.6	2.100 / 118Pa
490 x 892 x 500	6	5.4	3.200 / 118Pa
592 x 287 x 500	8	2.3	1.400 / 118Pa
592 x 490 x 500	8	3.9	2.300 / 118Pa
592 x 892 x 500	8	7.1	4.200 / 118Pa
287 x 287 x 635	5	1.8	800 / 97Pa
287 x 592 x 635	5	3.8	1.700 / 97Pa
287 x 892 x 635	5	5.7	2.600 / 97Pa
490 x 592 x 635	8	6.0	2.700 / 97Pa
490 x 892 x 635	8	9.1	4.100 / 97Pa
592 x 287 x 635	10	3.6	1.600 / 97Pa
592 x 490 x 635	10	6.2	2.800 / 97Pa
592 x 892 x 635	10	11.3	5.100 / 97Pa