

# RIGID POCKET FILTERS PGL

- **100% SYNTHETIC, CORROSION-FREE AND HUMIDITY-RESISTANT**
- **FLAMMABILITY CLASSIFICATIONS AS PER U.S. UL900, CLASS 2 AND DIN 53438, CLASS K1/F1**
- **FILTER RANGE INDEPENDENTLY TESTED**

## DESCRIPTION

Filtrair manufactures its own thermally bonded synthetic medium for their PGL rigid pocket filters. The depth-loading medium is manufactured in a progressive density multi-layering technique to ensure high dust holding capacity with lowest pressure drop. For the user, this results in long filter life and low energy and maintenance costs.

The pocket filter medium is inherently rigid, with a welded rib construction to form a pocket with the highest possible function security in even the most brutal air pressure and harsh environments.

PGL pocket filters are free of glass fibers and non-corroding. They can be incinerated and withstand 100% humidity environments with ease.

The quality of the filters is assured by our compliance ISO 9001-quality management system and by testing to EN-779 and ISO 16890.

## FEATURES AND BENEFITS

- **AERODYNAMIC** wedge-shape, tubular **POCKET SPACERS** - minimum air flow resistance, maximum turbine output
- Pockets integrated in injection moulded, impact-proof PU header - gives filter a burst strength of < 6000 Pa
- **UNIQUE** proprietary Filtrair filter medium - providing high efficiency and maximum dust holding capacity
- For **ALL TYPES OF ENVIRONMENTS**: high fine dust, moisture and water mist content as well as high velocity
- **SELF SUPPORTING**, leak-free welded pockets - stay rigid in turbulent airstreams - eliminate shedding
- **FILTRAIR PGL** filters may be disposed of by incineration

## APPLICATIONS

Filtrair PGL rigid filters serve as highly efficient final filters in air intake systems of combustion engines, industrial plants and in all HVAC applications. They are suitable for filtration in any environmental condition - including offshore, marine - and in any climate - including tropical (high humidity). They efficiently remove fine, submicron airborne particulate matter but also mist and fog. They can be relied on to arrest aggressive, abrasive particles and contribute to minimizing both fouling and erosion of compressor blades.

Where subsequent HEPA filters are placed, they protect them from fine dust and fog, thus significantly prolonging their life and increasing their operational safety.

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## TECHNICAL DATA

Product	Unit	PGL
Rated air flow (1/1 size)	m <sup>3</sup> /h	3400
Initial pressure drop at rated air flow (3400 m <sup>3</sup> /h)	Pa	85
Initial pressure drop at rated air flow (4250 m <sup>3</sup> /h)	Pa	110
Recommended final pressure drop	Pa	450
Filter class per EN779:2012	-	M6
Dust holding capacity (Ashrae dust) 450 Pa	g/unit	650

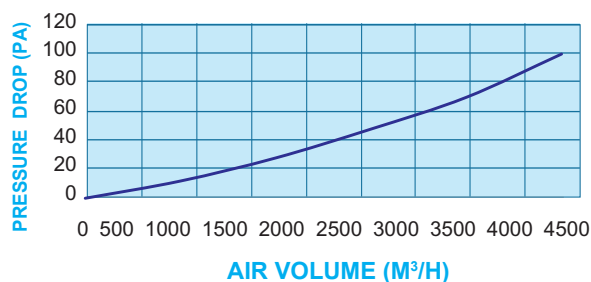
## ISO 16890 TECHNICAL DATA

Class To ISO 16890	Unit	ePM10 75%
Particulate matter efficiency		
ISO ePM <sub>1,0</sub>	%	24
ISO ePM <sub>2,5</sub>	%	37
ISO ePM <sub>10</sub>	%	75
Cut off particle size	µm	5
Dust holding capacity (ISO 12103 A2 Fine)	g/unit	2500

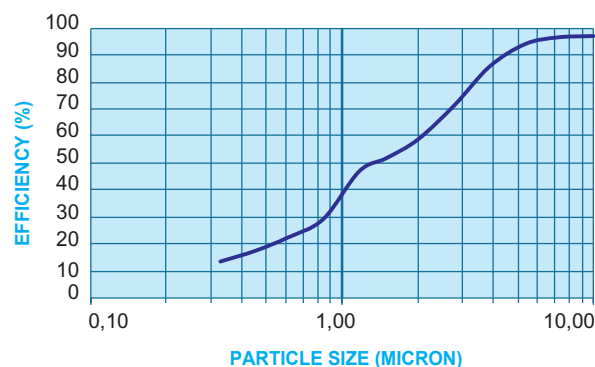
## PRODUCT GEOMETRIES

Product	Unit	PGL 1/1	PGL 5/6	PGL 1/2
Filter dimensions	mm	595*595	493*595	289*595
Filter length	mm	620	620	620
Filter medium area	m <sup>2</sup>	5,6	3,5	2,8
Nr. of pockets	-	8	5	4
Filter weight	kg	3,5	3	2,5
Package - nr of filters per box	unit	2	2	2
Suitable for standard mounting frame	mm	610*610	508*610	305*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 VOLUME



### 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.



**Filtrair**<sup>®</sup>  
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