



# RIGID POCKET FILTERS PFL AND PFS

- **100% SYNTHETIC, CORROSION-FREE AND HUMIDITY-RESISTANT**
- **FLAMMABILITY CLASSIFICATIONS AS PER U.S. UL 900, CLASS 2 AND DIN 53'438, CLASS K1/F1**
- **FILTER RANGE INDEPENDENTLY TESTED**

## DESCRIPTION

Filtrair manufactures its own thermally bonded synthetic medium for their PFL and PFS 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 high dust-laden environments.

PFL and PFS rigid pocket filters are metal free and thus do not corrode, can be incinerated and withstand 100% humidity environments with ease.

## 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 maximum dust holding capacity
- For **ALL TYPES OF ENVIRONMENTS**: high 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 PFL AND PFS** filters may be disposed of by incineration

## APPLICATIONS

Filtrair PFL and PFS rigid filters serve as very efficient pre or 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 airborne particulate matter but also snow, mist and fog. Where subsequent final filters are placed, they protect them from coarser dust, salt and fog, thus significantly prolonging their life and increasing their operational safety.

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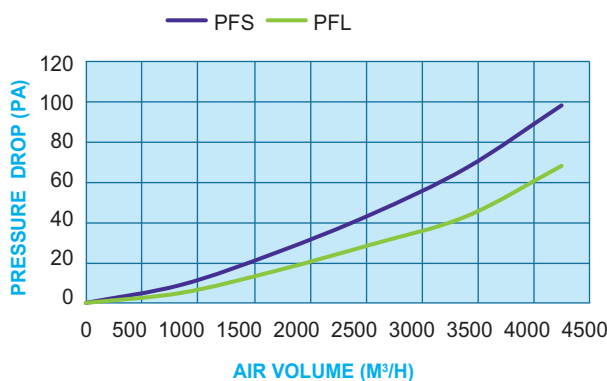
TECHNICAL DATA			
Product	Unit	PFL	PFS
Rated air flow (1/1 size)	m <sup>3</sup> /h	3400	3400
Initial pressure drop at rated air flow (3400 m <sup>3</sup> /h)	Pa	45	55
Initial pressure drop at rated air flow (4250 m <sup>3</sup> /h)*	Pa	68	75
Recommended final pressure drop	Pa	450	450
Filter class per EN779:2012	-	M5	M5
Dust holding capacity (Ashrae dust) 450 Pa	g/unit	1050	480

ISO 16890 TECHNICAL DATA			
Class To ISO 16890		*ePM10 55%	*ePM10 50%
Particulate matter efficiency			
ePM <sub>1,0</sub>	%	4	3
ePM <sub>2,5</sub>	%	13	10
ePM <sub>10</sub>	%	56	50
Cut off Particle size	µm	10	10
Dust holding capacity (ISO 12103 A2 Fine)	g/unit	3850	1450

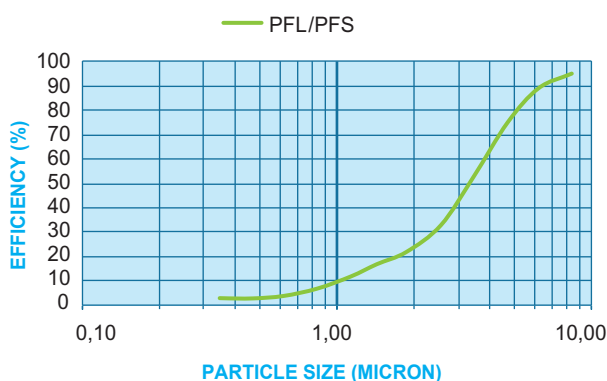
\* classification @ 4250 m<sup>3</sup>/h

PRODUCT GEOMETRIES							
Product	Unit	PFL 1/1	PFL 5/6	PFL 1/2	PFS 1/1	PFS 5/6	PFS 1/2
Filter dimensions	mm	595*595	493*595	289*595	595*595	493*595	289*595
Filter length	mm	620	620	620	330	330	330
Filter medium area	m <sup>2</sup>	4,2	3,5	2,1	2,1	1,8	1
Nr. of pockets	-	6	5	3	6	5	3
Filter weight	kg	2,3	1,8	1,3	1,6	1,3	1
Package - nr of filters per box	unit	2	2	2	2	2	2
Suitable for standard mounting frame	mm	610*610	508*610	305*610	610*610	508*610	305*610
Maximum continuous working temperature	°C	≤ 70	≤ 70	≤ 70	≤ 70	≤ 70	≤ 70
Admissible relative humidity	%	100	100	100	100	100	100
Maximum final operating pressure drop	Pa	600	600	600	600	600	600
Burst pressure drop	Pa	> 6000	> 6000	> 6000	> 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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