



# RIGID POCKET FILTERS PPL AND PPS

- **100% SYNTHETIC, CORROSION-FREE AND HUMIDITY-RESISTANT**
- **SELF SUPPORTING, LEAK-FREE WELDED POCKETS** - stay rigid in turbulent airstreams - eliminate shedding
- **MAXIMUM DUST HOLDING CAPACITY** due to unique design and Filtrair filter medium

## DESCRIPTION

Filtrair manufactures its own thermally bonded synthetic media for their PPL and PPS 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 functional security in even the most brutal air pressure and high dust-laden environments.

PPL and PPS 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
- **FLAMMABILITY CLASSIFICATIONS** as per U.S. UL 900, class 2 and as per DIN 53438, class K1/F1
- Independently tested filter range

## APPLICATIONS

Filtrair PPL and PPS G4 rigid filters serve as pre-filter 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. 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.

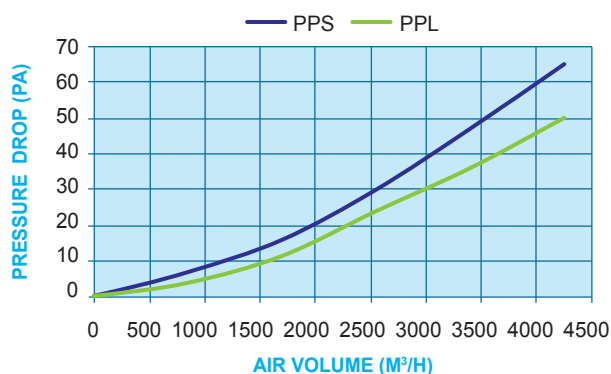
# RIGID POCKET FILTERS PPL AND PPS

TECHNICAL DATA			
Filter type	Unit	PPL	PPS
Rated air flow (1/1 size)	m³/h	3400	3400
Initial pressure drop at rated air flow (3400 m³/h)	Pa	35	40
Initial pressure drop at rated air flow (4250 m³/h)	Pa	50	55
Recommended final pressure drop	Pa	250	250
Filter class per EN779:2012	-	G4	G4
Dust holding capacity (Ashrae dust) 450 Pa	g/unit	1300	520

ISO 16890 DATA			
Filter type	Unit	PPL	PPS
<b>Class to ISO 16890</b>		<b>ISO coarse 85%</b>	<b>ISO coarse 75%</b>
<b>Filter class according to ISO 29461-1</b>		<b>ISO T4</b>	<b>ISO T3</b>
Particulate matter efficiency ePM <sub>10</sub>	%	34	31
Initial gravimetric Arrestance	%	87	76
Cut off particle size	µm	>10	>10
Dust holding capacity (ISO 12103 A2 Fine)	g/unit	4522	1830

PRODUCT GEOMETRIES							
Product	Unit	PPL 1/1	PPL 5/6	PPL 1/2	PPS 1/1	PPS 5/6	PPS 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	m²	4,2	3,5	2,1	2,1	1,8	1
Nr. of pockets	-	6	5	3	6	5	3
Filter weight	kg	2	1,8	1,2	1,6	1,4	1,1
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



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®**  
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ISO 9001 Registered Company

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