



RIGID POCKET FILTERS PTL AND PHL

- **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 PTL and PHL 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.

PTL and PHL 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 PTL/PHL** filters may be disposed of by incineration

APPLICATIONS

Filtrair PTL rigid filters serve as very efficient pre or final filters in air intake systems of combustion engines, industrial plants and in all HVAC applications. Filtrair PTL M6 is suitable for filtration in any environmental condition - including offshore, marine - and in any climate - including tropical (high humidity). They efficiently remove fine airborne particulate matter but also 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.

Filtrair PHL rigid filters serve as highly efficient pre-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 protect subsequent high efficiency filters (F9 to H11) from fine dust and fog, thus significantly prolonging their life and increasing their operational safety.

RIGID POCKET FILTERS PTL AND PHL

TECHNICAL DATA

Filter type	Unit	PTL	PTM	PHL
Rated air flow (1/1 size)	m ³ /h	3400	3400	3400
Initial pressure drop at rated air flow (3400 m ³ /h)	Pa	58	70	90
Initial pressure drop at rated air flow (4250 m ³ /h)	Pa	81	110	125
Recommended final pressure drop	Pa	450	450	450
Filter class per EN779:2012	-	M6	M6	M6
Dust holding capacity (Ashrae dust) 450 Pa	g/unit	1410	1150	950

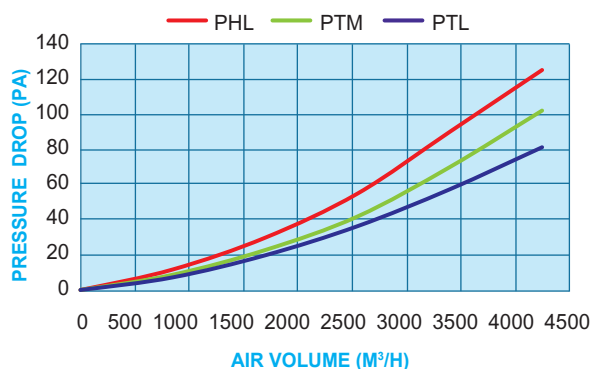
ISO 16890 TECHNICAL DATA

Filter type	Unit	ePM10 60%	ePM10 60%	ePM10 75%
CLASS TO ISO 16890				
Particulate matter efficiency				
ePM1	%	6	6	22
ePM2,5	%	14	14	34
ePM10	%	60	60	75
Cut off Particle size	µm	9	9	5
Dust holding capacity (ISO 12103 A2 Fine)		3035	2860	2300

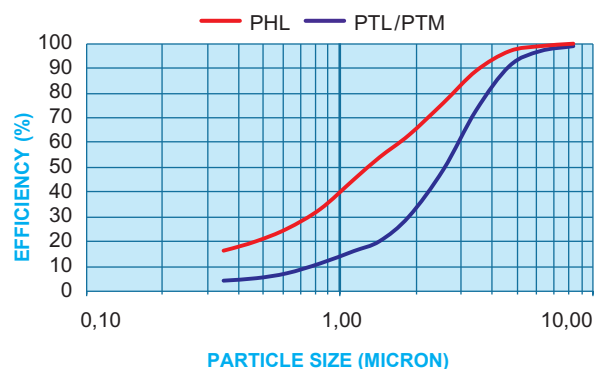
PRODUCT GEOMETRIES

Product	Unit	PTL 1/1	PTL 5/6	PTL 1/2	PTM 1/1	PTM 5/6	PTM 1/2	PHL 1/1	PHL 5/6	PHL 1/2
Filter dimensions	mm	595*595	493*595	289*595	595*595	493*595	289*595	595*595	493*595	289*595
Filter length	mm	620	620	620	510	510	510	620	620	620
Filter medium area	m ²	5,6	3,5	2,8	4,7	2,9	2,4	5,6	3,5	2,8
Nr. of pockets	-	8	5	4	8	5	4	8	5	4
Filter weight	kg	2,9	2,2	1,7	2,6	1,9	1,4	2,9	2,2	1,7
Package - nr of filters per box	unit	2	2	2	2	2	2	2	2	2
Suitable for standard mounting frame	mm	610*610	508*610	305*610	610*610	508*610	305*610	610*610	508*610	305*610
Maximum continuous working temperature	°C	≤ 70	≤ 70	≤ 70	≤ 70	≤ 70	≤ 70	≤ 70	≤ 70	≤ 70
Admissible relative humidity	%	100	100	100	100	100	100	100	100	100
Maximum final operating pressure drop	Pa	600	600	600	600	600	600	600	600	600
Burst pressure drop	Pa	> 6000	> 6000	> 6000	> 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



PARTICLE SIZE EFFICIENCY



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.

