



RIGID POCKET FILTERS PFL, PFM 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, PFM 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, PFM 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, PFM AND PFS** filters may be disposed of by incineration

APPLICATIONS

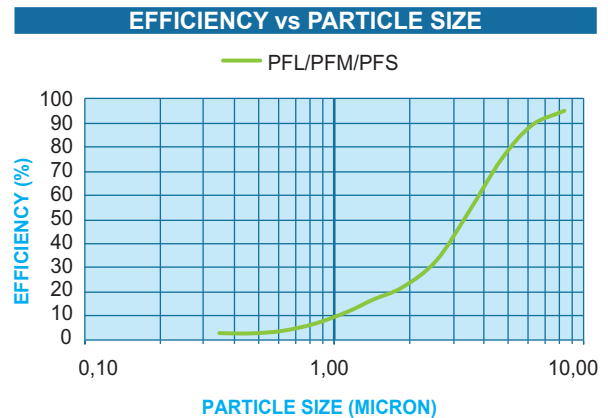
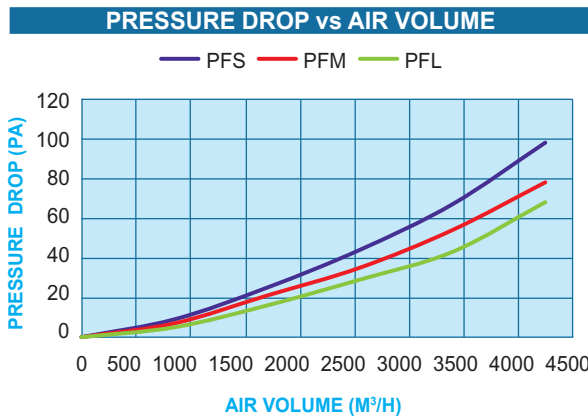
Filtrair PFL, PFM and PFS rigid filters serve as very efficient pre or final filters in air intake systems of combustion engines, industrial plants and in all HVAC applications. They are suitable for filtration in any environmental condition - including offshore, marine - and in any climate - including 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.

RIGID POCKET FILTERS PFL, PFM AND PFS

| TECHNICAL DATA | | | | |
|--|-------------------|------|------|------|
| Product | Unit | PFL | PFM | PFS |
| Rated air flow (1/1 size) | m ³ /h | 3400 | 3400 | 3400 |
| Initial pressure drop at rated air flow (3400 m ³ /h) | Pa | 45 | 54 | 65 |
| Initial pressure drop at rated air flow (4250 m ³ /h) | Pa | 68 | 78 | 98 |
| Recommended final pressure drop | Pa | 450 | 450 | 450 |
| Filter class per EN779:2012 | - | M5 | M5 | M5 |
| Dust holding capacity (Ashrae dust) 450 Pa | g/unit | 1050 | 1050 | 480 |

| ISO 16890 TECHNICAL DATA | | | | |
|---|--------|-----------|-----------|-----------|
| Class To ISO 16890 | | ePM10 55% | ePM10 55% | ePM10 50% |
| Particulate matter efficiency | | | | |
| ePM1 | % | 4 | 4 | 3 |
| ePM2,5 | % | 10 | 10 | 10 |
| ePM10 | % | 55 | 55 | 50 |
| Cut off Particle size | µm | 10 | 10 | 10 |
| Dust holding capacity (ISO 12103 A2 Fine) | g/unit | 3710 | 3250 | 1250 |

| PRODUCT GEOMETRIES | | | | | | | | | | |
|--|----------------|--|---------|---------|---------|---------|---------|---------|---------|---------|
| Product | Unit | PFL 1/1 | PFL 5/6 | PFL 1/2 | PFM 1/1 | PFM 5/6 | PFM 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 | 595*595 | 493*595 | 289*595 |
| Filter length | mm | 620 | 620 | 620 | 510 | 510 | 510 | 330 | 330 | 330 |
| Filter medium area | m ² | 4,2 | 3,5 | 2,1 | 4,7 | 3 | 2,4 | 2,1 | 1,8 | 1 |
| Nr. of pockets | - | 6 | 5 | 3 | 8 | 5 | 4 | 6 | 5 | 3 |
| Filter weight | kg | 2,3 | 1,8 | 1,3 | 2,3 | 1,8 | 1,8 | 1,6 | 1,3 | 1 |
| 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 | | | | | | | | |



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.

