



FILTRAIR HMV Rigid Filters (F6 – F9)



FILTRAIR HMV RIGID FILTERS

Application

Filtrair HMV serve as highly efficient final filters for applications with high performance and safety demands. HMV filters may be used as final filters in HVAC units for e.g. Hospitals, office buildings, etc. and for process filtration in Automotive and other industries. They remove any airborne particulate matter, including sub-micron sized particles, providing clean and healthy air for humans and full protection for HVAC components. HMV filters used in combination with Filtrair's prefilter range offer an optimized relation between efficiency and life time at lowest pressure drop and minimal energy consumption.

Filter Media

The filter media of HMV filters are made from wet laid Microfiber glass paper. The pleated medium is stabilised by glued-on spacer threads, keeping the pleats in regular spacing allowing optimal through-flow of air with low resistance.

Features

- ◆ High efficiency Microfiberglass medium:
 - highest dust holding capacity, long filter life
 - no efficiency drop in real life – no shedding
- ◆ V-shaped minipleated filter design, features
 - maximised media area (18 m²)
 - lowest pressure drop
 - lowest energy consumption
- ◆ Minipleated media packs
 - fully Polyurethane sealed in frame – thus leak free
- ◆ Metal-free, robust and sturdy plastic frame
 - light weight and easy to handle
 - filter fully incinerable after use
- ◆ HMV filter units may be operated up to 5000 m³/h and in either air flow direction
- ◆ Flammability classification K2/F2 as per DIN 53438

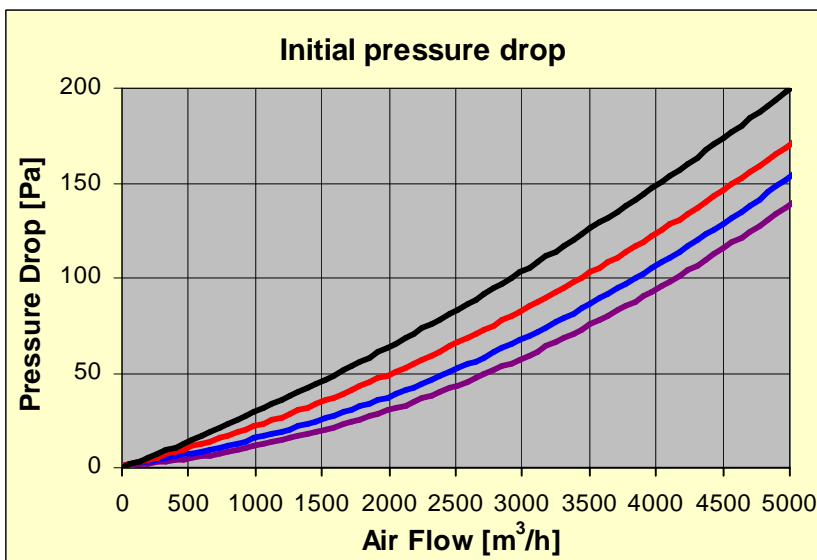
Filtrair HMV – Technical performance specifications

| Filter types | HMV | - 75 | - 85 | - 95 | - 98 |
|---|-------------------|-----------|-----------|-----------|---------------|
| Nominal air flow, 1/1 size | m ³ /h | 3400 | 3400 | 3400 | 3400 |
| Pressure drop at 3400 m ³ /h | Pa | 70 | 80 | 95 | 125 |
| Pressure drop at 4250 m ³ /h | Pa | 100 | 110 | 135 | 165 |
| Filter class (EN779 / EN1822) | – | F6 | F7 | F8 | F9/E10 |
| MERV class (ASHRAE 52.2) | – | 11/12 | 13 | 14 | 15/16 |
| Average efficiency (EN 779) | % | 78 | 88 | 94 | 98 |
| Initial efficiency 0.4µm (EN779) | % | 27 | 41 | 67 | > 85* |
| ASHRAE-DHC** (EN779) | g | 500 | 450 | 400 | 350 |

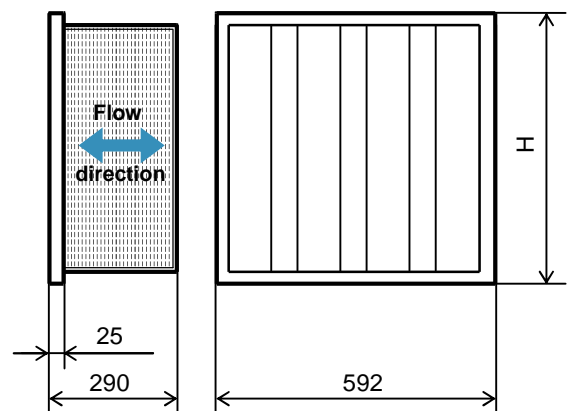
| Filter sizes | Unit | 1/1 | 5/6 | 1/2 |
|----------------|-------------------|------|------|------|
| Rated air flow | m ³ /h | 3400 | 2700 | 1650 |
| Dimension "H" | mm | 592 | 490 | 287 |
| Filter weight | kg | 7.2 | 6.0 | 3.6 |
| Medium area | m ² | 18 | 15 | 9 |

* Efficiency for 0.4 µm as well as for MPPS particles as per EN1822:2009

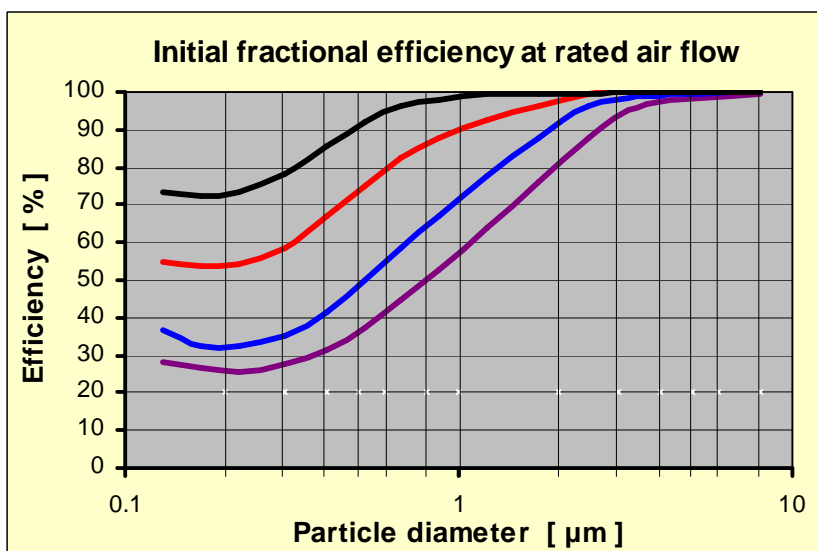
** Dust Holding Capacity (DHC) at 3400 m³/h for standardised test dust



Filter dimensions (mm)



| | | | |
|---|------------|---|------------|
| — | HMV-95-1/1 | — | HMV-98-1/1 |
| — | HMV-85-1/1 | — | HMV-75-1/1 |



Application limits and options

- ◆ Maximum continuous operating temperature: 65°C
- ◆ Admissible relative humidity of air: ≤ 100 %
- ◆ Recommended final pressure drop for filter change: ≤ 450 Pa
- ◆ Maximum final pressure drop: 650 Pa
- ◆ Flammability classification as per DIN 53'438: Class K2/F2



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All data given are average indicative values with usual accepted manufacturing and testing tolerances. We reserve the right to modify performance data without prior notice. All specific performance data will require our explicit written confirmation.

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