



# FILTRAIR TMV RIGID FILTERS (M6-E11)

- **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**

## APPLICATION

Filtrair TMV serve as highly efficient final filters in air intake systems of combustion engines, in any environmental condition and in any climate. They remove any airborne particulate matter, including submicron sized particles, providing full protection for the turbines key components from fouling, corrosion and erosion. TMV filters are specially designed for gas turbine air intakes but may also be used for industrial or HVAC applications with high performance and safety demands.

TMV filters used in combination with Filtrair's prefilter range offer optimised efficiency/life time relationship at lowest pressure drop.

## FILTER MEDIA

The filter media of TMV filters are made from wet laid Microfiberglass paper. The pleated medium is stabilised by glued-on spacer threads, keeping the pleats in regular distance from each other and allowing optimal through-flow of air with low resistance.

## FEATURES AND BENEFITS

- **HIGH EFFICIENCY MICROFIBERGLASS MEDIUM:**
  - highest dust holding capacity, long filter life
  - no efficiency drop in real life (fibre discharge)
- **V-SHAPED MINIPLEATED FILTER DESIGN** - features maximised media area (18 m<sup>2</sup>) and lowest pressure drop
- **MINIPLEATED MEDIA PACKS**
  - fully Polyurethane sealed in frame - thus leak free
  - protected against handling damages by face guards
- **METAL-FREE ROBUST AND STURDY PLASTIC FRAME**
  - light weight and easy to handle
  - filter fully incinerable after use
- **TMV FILTER UNITS MAY BE OPERATED UP TO 5000 M3/H AND IN EITHER AIR FLOW DIRECTION**
- **FLAMMABILITY CLASSIFICATION K2/F2 AS PER DIN 53438**
- **AVAILABLE IN FILTER CLASSES M6 TO F9 AS PER EN 779 AND E11 AS PER EN 1822**

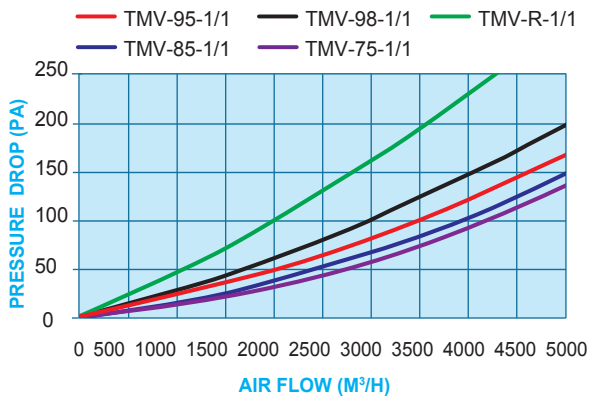
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TECHNICAL DATA						
Filter types	HMV	-75	-85	-95	-98	R
Rated air flow, 1/1 size	m <sup>3</sup> /h	4250	4250	4250	3400	3400
Pressure drop at 3400 m <sup>3</sup> /h	Pa	70	80	95	120	190
Pressure drop at 4250 m <sup>3</sup> /h	Pa	100	115	130	155	-
Filter class (EN779 / EN1822)	-	M6	F7	F8	F9/E10	E11
MERV class (ASHRAE 52.2)	-	11	13	14	16	> 16
Average efficiency (EN 779)	%	65	85	93	98	-
Initial efficiency 0.4µm (EN779)	%	15	38	58	> 85*	> 95*
ASHRAE-DHC** (EN779)	g	673	580	541	418	-
SAE-Fine DHC** up to 450 Pa	g	1570	1470	1380	1050	-

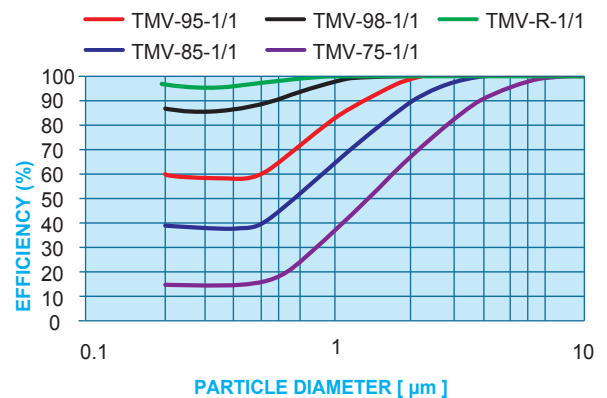
PRODUCT GEOMETRIES				
Filter sizes	Unit	1/1	5/6	1/2
Rated air flow	m <sup>3</sup> /h	4250	3400	2100
Dimension "H"	mm	594	492	289
Filter weight	kg	7.4	6.1	3.7
Medium area	m <sup>2</sup>	18	15	9

\* Efficiency for 0.4 µm as well as for MPPS particles as per EN 1822  
 \*\* Dust Holding Capacity (DHC) at 3400 m<sup>3</sup>/h for standardised test dust

## PRESSURE DROP vs AIR VOLUME



## INITIAL FRACTIONAL EFFICIENCY AT RATED AIR FLOW



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.

