



# FILTER MEDIA VNF-M1-SERIES

- **PRE AND COARSE FILTRATION BARRIER** to the air intake system in general ventilation and air handling systems.  
**INDEPENDENT RATINGS** for railroad industry i.e. **NFF16-101 F1** rated, **NF P 92-503 M1** rated, **EN45545, DIN 53438-F1**
- **100 % SYNTHETIC**

## DESCRIPTION

Air filter medium designed for pre – or coarse filtration of the air intake in general ventilation and air handling systems installed in railway industry, public buildings, offices, factories and equipment of all kinds. Filtrair VNF-M1 series are designed with high quality FR fibers to match the flammability requirements of the industry.

Synthetic FR-fiber based filter mats developed and manufactured at Filtrair's own high-tech media plant. The filter media are constructed from selected high performance non-breakable FR- fibers in a progressive density multi layering technique to ensure high depth loading with lowest optimal pressure drop.

Filtrair VNF M1 series are thermally bonded and stiffened to ensure high dust holding. The clean air side are slightly smoothed and imprinted for easy identification to ensure the correct installation in pad or roll or pocket format.

The Filtrair VNF M1 series conform to the European ISO16890 standard and European fire Classification standards – **NFF16-101 F1 rated, NF P 92-503 M1 rated, EN45545, DIN 53438-F1** and are self-extinguishing

Constant quality is ensured by quality control testing according ISO16890 and independent flammability control testing, **NFF16-101 F1 rated, NF P 92-503 M1 rated, EN45545, DIN 53438-F1.**

## FEATURES AND BENEFITS

Uniquely suited for

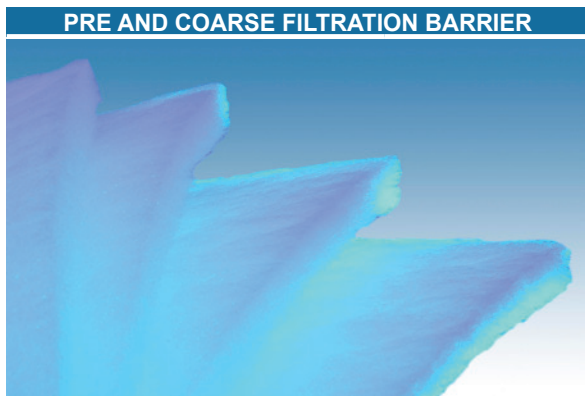
- **AIR HANDLING UNITS FOR RAILROAD CAR VENTILATION**
- **GENERAL AIR HANDLING UNITS**
- **VENTILATION SYSTEMS OF ALL KIND**
- **AIR INTAKE PRE FILTRATION BANKS**
- **WINDOW AIR CONDITIONERS**
- **HOME FURNACE AIR HEATERS**

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TECHNICAL DATA				
Product	Unit	VNF-150-M1	VNF-290-M1	VNF-300-M1
Rated air flow	m <sup>3</sup> /h/m <sup>2</sup>	5400	5400	5400
Air velocity	m/s	1,5	1,5	1,5
Initial pressure drop	Pa	20	38	46
Final pressure drop	Pa	250	250	250
Filter class per EN779:2012	-	G2	G3	G4
Average Arrestance	%	79	88	91
Dust holding capacity (Ashrae dust) 250 Pa	g/m <sup>2</sup>	450	420	350

ISO 16890 TECHNICAL DATA				
Product	Unit	VNF-150-M1	VNF-290-M1	VNF-300-M1
Class To ISO 16890		ISO coarse	ISO coarse	ISO coarse
		50%	60%	65%
Initial gravimetric Arrestance	%	52	63	67

APPLICATION PARAMETERS				
Product	Unit	VNF-150-M1	VNF-290-M1	VNF-300-M1
Temperature resistance, constant	°C	≤ 100	≤ 100	≤ 100
Temperature resistance, short peaks	°C	<120	<120	<120
Nominal thickness	mm	14	20	22
Relative humidity	%	100	100	100
Regenerable/washable	-	yes	yes	yes
Roll sizes standard		1x40m	1x20m	1x20m
		2x40m	2x20m	2x20m



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.

