Filtrair®

Automotive OEM assembly plants

HVAC

Automotive after market

Power Systems

FILTER MEDIA VNF-M1-SERIES (G2/G3/G4)

- **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 EN779 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 EN779 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

FILTER MEDIA VNF-M1-SERIES (G2/G3/G4)

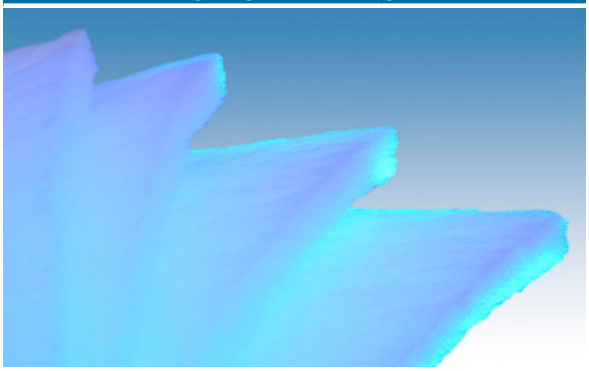
TECHNICAL DATA

Product	Unit	VNF-150-M1	VNF-290-M1	VNF-300-M1
Rated air flow	cfm	3180	3180	3180
Air velocity	fpm	295	295	295
Initial pressure drop	"WG	0.79	1.50	1.81
Final pressure drop	"WG	1.00	1.00	1.00
Filter class per EN779:2012	-	G2	G3	G4
Average Arrestance	%	79	88	91
Dust holding capacity (Ashrae dust) 250 Pa	oz/ft2	170	160	130

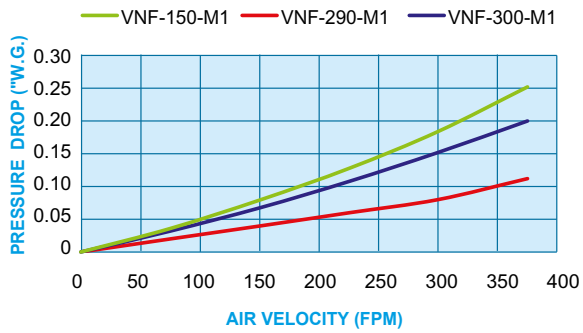
APPLICATION PARAMETERS

Product	Unit	VNF-150-M1	VNF-290-M1	VNF-300-M1
Temperature resistance, constant	°F	≤ 210	≤ 210	≤ 210
Temperature resistance, short peaks	°F	<248	<248	<248
Nominal thickness	inch	0.39	0.71	0.75
Relative humidity	%	100	100	100
Regenerable/washable	-	yes	yes	yes
Roll sizes standaard		40" x 131'	40" x 67'	40" x 67'
		80" x 131'	80" x 67'	80" x 67'

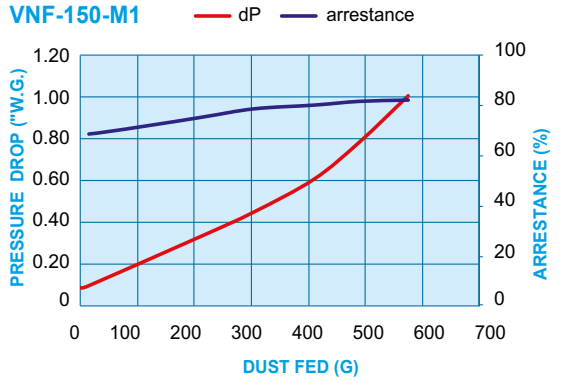
PRE AND COARSE FILTRATION BARRIER



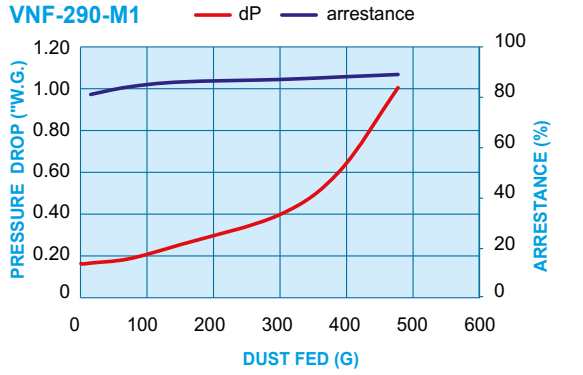
PRESSURE DROP vs AIR FLOW RATE



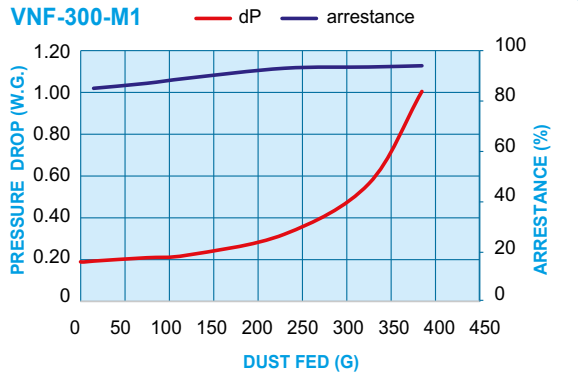
DUSTLOADING vs PRESURE DROP vs ARRESTANCE



DUSTLOADING vs PRESURE DROP vs ARRESTANCE



DUSTLOADING vs PRESURE DROP vs ARRESTANCE



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.

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