



# FILTER MEDIA VNF-SERIES (G3/G4)

- **PRE AND COARSE FILTRATION BARRIER** to the air intake systems in general ventilation and air handling systems
- **UL CLASS 2** and self extinguishing according to **DIN 53438-F1**
- **100% SYNTHETIC**

## DESCRIPTION

Air filter media designed for pre- or coarse filtration of the air intake in general ventilation and air handling systems installed in public buildings, offices, factories and equipment of all kinds. Provides a balanced dust separation in situations where a high air volume or contaminated environment is a given.

The VNF series combines a high dust holding with a relatively low pressure drop and is therefore extremely cost effective with a long filter life.

Synthetic 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 fibers in a progressive density multi-layering technique to ensure high depth loading with optimal lowest pressure drop performance, while achieving gravimetric arrestance and efficiency levels in accordance with EN 779 standard ratings.

The VNF series is thermally bonded in part and stiffened to ensure high dust holding. The clean air sides are smoothed and imprinted for easy identification to ensure the correct installation in pad, roll or pocket format.

The Filtrair All-rounders conform to all European Union and U.S. fire classification standards (e.g. DIN 53438-F1 and UL 900-class 2) and are self-extinguishing.

Constant quality is ensured by quality control testing according EN779. The VNF series are available in Filtrair print or filter class printed Products.

## FEATURES AND BENEFITS

Uniquely suited for:

- **GENERAL AIR HANDLING UNITS**
- **AIR CONDITIONING SYSTEMS**
- **VENTILATION SYSTEMS OF ALL KINDS**
- **AIR INTAKE PRE-FILTRATION BANKS**
- **WINDOW AIR CONDITIONERS**
- **HOME FURNACE AIR HEATERS**
- **RAILROAD CAR VENTILATION**
- **INTAKE AND EXHAUST AIR SYSTEMS FOR HEAVY INDUSTRY AND CHEMICAL PLANTS.**

# FILTER MEDIA VNF-SERIES (G3/G4)

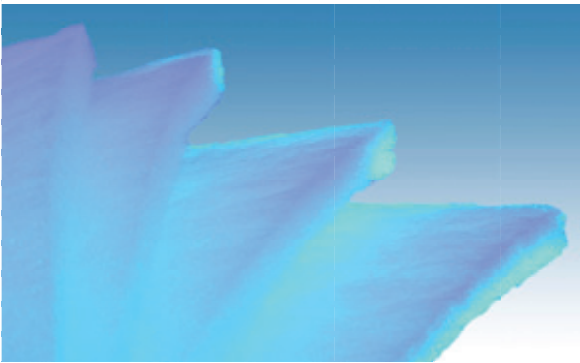
## TECHNICAL DATA

Product	UNIT	VNF-290	VNF-300
Rated air flow	m <sup>3</sup> /h/m <sup>2</sup>	5400	5400
Air velocity	m/s	1,5	1,5
Initial pressure drop	Pa	26	42
Final pressure drop	Pa	250	250
Filter class per EN779:2012	-	G3	G4
Average Arrestance	%	79	91
Dust holding capacity (Ashrae dust) 250 Pa	g/m <sup>2</sup>	380	500
Class according to EN 779	-	G4	G3

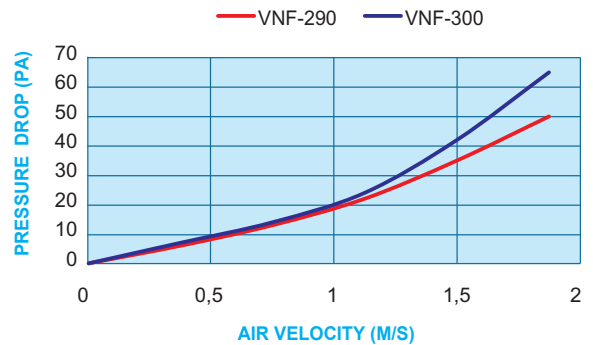
## APPLICATION PARAMETERS

Product	Unit	VNF-300	VNF-290
Temperature resistance, constant	°C	≤ 100	≤ 100
Temperature resistance, short peaks	°C	<120	<120
Nominal thickness	mm	24	26
Relative humidity	%	100	100
Regenerable/washable	-	yes	yes
Roll sizes standard		1m x 20m	2m x 20m

## PRE AND COARSE FILTRATION BARRIER

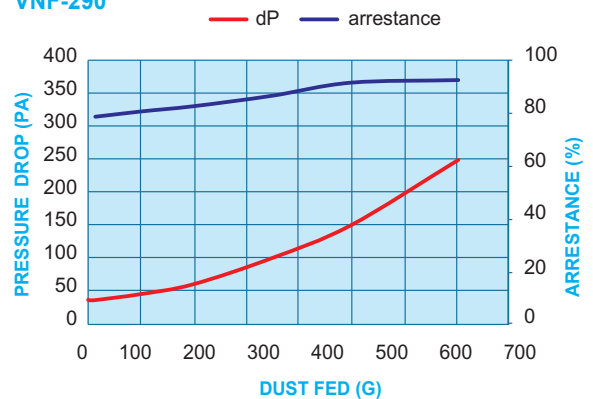


## PRESSURE DROP vs AIR FLOW RATE



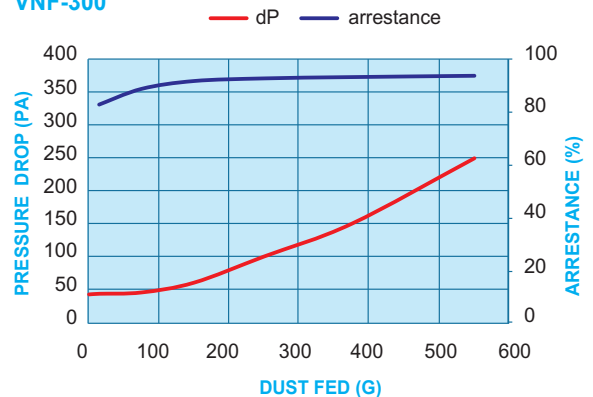
## DUSTLOADING vs PRESURE DROP vs ARRESTANCE

### VNF-290



## DUSTLOADING vs PRESURE DROP vs ARRESTANCE

### VNF-300



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.

