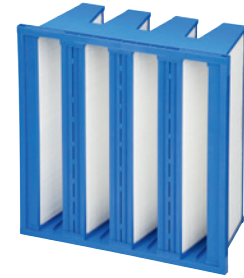


THE STURDY ONE FOR HYGIENE DEMANDS

NANOPLEAT FILTERS WITH HSN TECHNOLOGY

FILTER TYPE	FILTER CLASS	TEST STANDARD
MV 75 HSN	M 6	EN 779
MV 85 HSN	F 7	EN 779
MV 95 HSN	F 8	EN 779
MV 98 HSN	F 9	EN 779



The innovation

Viledon® NanoPleat cassette filters, thanks to their innovative HSN media technology, are an ideal filtering solution for air-conditioning systems. They score excellently in terms of an outstanding performance profile, marrying dependable fine-filtration to energy-economical and dependable operating characteristics and long useful lifetimes. Hybrid-Synthetic Nonwoven media constitute the core of this uniquely capable fine-filter.

The application

Viledon® NanoPleat filters have been developed specifically for intake, exhaust and recirculated air filtration in HVAC systems posing stringent requirements for clean air quality and cost-efficiency. They ensure clean, efficiently conditioned air

- in office buildings, production halls, airports, libraries, museums, labora-

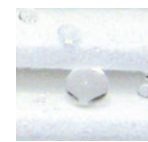
tories, hospitals, old people's homes and care facilities, etc.

- in sensitive applications for the food and beverage industries, pharmaceuticals, chemicals, optics, electronics, and medical technology, etc.

The special features and benefits

- Consistently high filtration efficiency under all operating conditions thanks to the unique HSN media.
- The low pressure drop and the high dust holding capacity provide ultra-efficient, energy-saving operating characteristics, with a slow increase in the pressure drop and resultant additional lifetime reserves. This produces a significant reduction in operating costs.
- Simplified handling at installation, since the HSN medium will not be irreversibly damaged even if it comes into contact with slight pressure.

- The pleated HSN filter media, cast in a



tough plastic frame in a leakproof configuration, are exceptionally sturdy and water-repellent. Even when

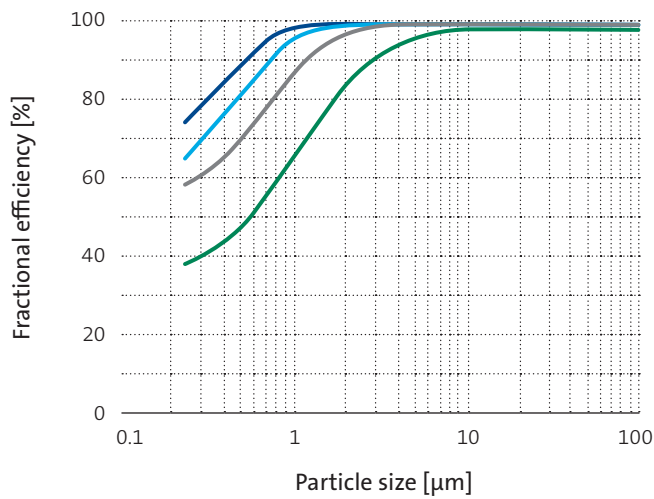
exposed to high levels of dampness and moisture, the filter medium will not be saturated; in fact the water droplets will simply roll off the material's surface. The pressure drop remains almost unchanged even under these circumstances, thus providing maximized operational reliability.

- Viledon® NanoPleat filters are highly resistant to chemicals, microbiologically inert and meet all hygiene requirements for HVAC systems to EN 13779 and the German VDI Guideline 6022. Their microbial safety has been confirmed by the Institute for Air Hygiene in Berlin.
- The sturdy construction ensures optimum performance even under turbulent flow conditions or during load changes. This means that the risk of particle or fiber shedding is practically eliminated.
- The filter elements are free of metals and halogens, corrosion-proof and also fully incinerable and thus disposal-friendly.

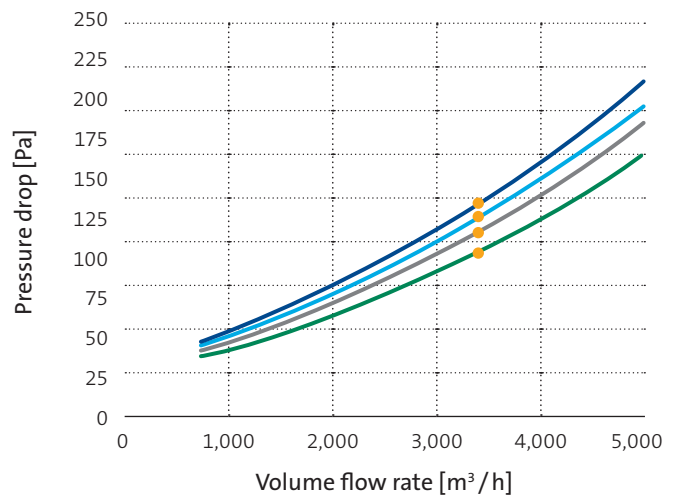
GEOMETRIES AVAILABLE		1/1	5/6	1/2
Nominal volume flow rate	m³/h	3,400	2,700	1,500
Header frame Suitable mounting frames	mm	592×592×25 610×610	490×592×25 508×610	287×592×25 305×610
Depth	mm	292	292	292
Weight, approx.	kg	5.8	4.8	3.3
Thermal stability	°C	50	50	50
Moisture-resistance (rel. hum.)	%	100	100	100

TECHNICAL FILTER DATA

Initial fractional collection efficiency plotted against particle size at nominal volume flow rate



Initial pressure drop curves



— MV 98 HSN — MV 95 HSN — MV 85 HSN — MV 75 HSN ● Nominal volume flow rate

KEY DATA		MV 75 HSN	MV 85 HSN	MV 95 HSN	MV 98 HSN
Filter class		M 6	F 7	F 8	F 9
Nominal volume flow	● m³/h	3,400	3,400	3,400	3,400
Initial pressure drop	Pa	85	100	110	120
Initial efficiency	%	43	60	70	75
Minimum efficiency	%	—	57	67	72
Average efficiency	E_a %	> 70	> 85	> 90	> 95
Recom. final pressure drop	Pa	450	450	450	450

The figures given are mean values subject to tolerances due to the normal production fluctuations. Our explicit written confirmation is always required for the correctness and applicability of the information involved in any particular case. Subject to technical alterations. You will find instructions on how to handle and dispose of loaded filters in our information on product safety and eco-compatibility.