

The Patented Solution for Sterile Air: HEPA Filters of Class H 13

150 mm Frame Depth / 100 mm Pleat Depth

The application

Viledon High Efficiency Particulate Air (HEPA) filters of Class H 13 are used for intake, exhaust and recirculating air filtration of ventilation systems requiring the highest clean air quality and sterility, such as

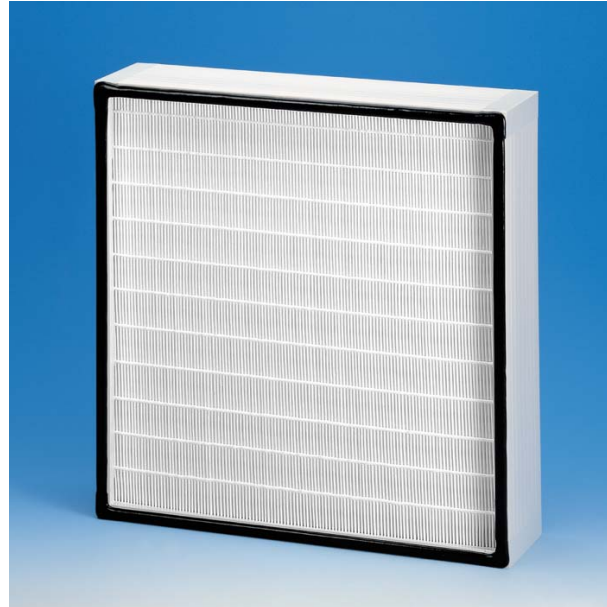
- ▶ in sophisticated air-conditioning applications (operating theatres / intensive care units of hospitals, labs, cleanrooms etc.)
- ▶ in highly sensitive industrial processes (biotechnology, pharmaceuticals, chemicals, optics, food/beverages, micro-electronics etc.)
- ▶ as final filters in ceiling outlets
- ▶ in the treatment of dangerous substances.

The special features and benefits

- ▶ Micro-glassfiber papers with a special thermoplastic bonding system are used as filter media.
- ▶ Our **patented thermal embossing technique** ensures the **optimum V-shaped geometry and equidistance of the pleats**, and therefore **maximum, homogeneous air passage at a very low pressure drop**. This results in a remarkably **economical and reliable operation** as well as **low-turbulence downstream air flow**.
- ▶ **Each filter element is tested for efficiency and integrity** to EN 1822 with our **leading-edge scan test rig** and supplied with the individual **test certificate**.
- ▶ The frame consists of halogen-free **plastic** and is **exceptionally distortion-resistant, moisture-resistant and fully incinerable**.

The patented construction offers **maximized security against the growth of bacteria and moulds** (independent test certificates on file). Also available with a galvanized or stainless steel sheet frame on request.

- ▶ **Easy handling and mounting** thanks to **exceptionally low weight** and a continuous, homogeneously foamed-on polyurethane gasket.
- ▶ The entire filter element is **non-corroding** and **easy to dispose of**, as it is metal-free.
- ▶ On request with a flat gasket.
- ▶ **Plastic protection grids** on request.



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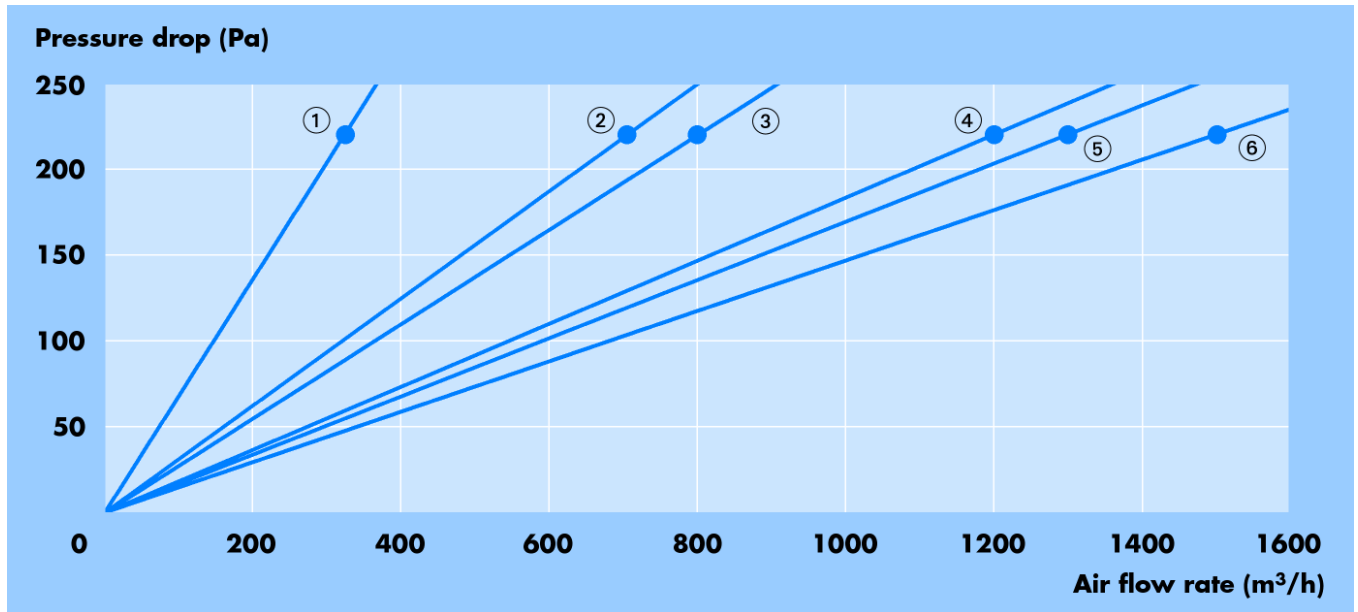
Parameters	Product line SF 13
Filter minimum efficiency for MPPS (= Most Penetrating Particle Size) according to EN 1822	≥ 99.95 %
Recommended final pressure drop	600 Pa
Max. permissible pressure drop	3000 Pa
Thermal stability	70 °C
Humidity resistance, rel. humidity	up to 100 %

Product line SF 13 Dimensions + gasket (mm)	Pleat depth (mm)	Volume flow rate at 220 Pa (m³/h)
305 x 305 x 150 + 6	100	325
610 x 305 x 150 + 6	100	700
457 x 457 x 150 + 6	100	800
557 x 557 x 150 + 6	100	1200
575 x 575 x 150 + 6	100	1300
610 x 610 x 150 + 6	100	1500

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Pressure drops of product line SF 13

150 mm frame depth / 100 mm pleat depth



(1) 305 mm x 305 mm
(2) 610 mm x 305 mm

(3) 457 mm x 457 mm
(4) 557 mm x 557 mm

(5) 575 mm x 575 mm
(6) 610 mm x 610 mm

Item code of product line SF 13

Example:	SF 13	- K	- 0610 x 0610 x 150 x 10	- N 1 0 N						
	▼	▼	▼	▼	▼	▼	▼	▼	▼	
	A	B	C	D	E	F	G	H	I	K

A HEPA filter Class H 13

B Frame material

- K = Halogen-free plastic
- B = Galvanized steel sheets
- S = Stainless steel sheets

C Frame width / mm, 4 digits

D Frame length / mm, 4 digits

E Frame depth / mm, 3 digits

F Pleat depth / cm, 2 digits

G Type of gasket

- N = PU semicircular profile gasket
- W = flat gasket

H Position of gasket

- 1 = one side
- 3 = both sides

I Protection grid

- 0 = without
- 3 = both sides / powder-coated metal mesh
- 4 = both sides / aluminium mesh
- 8 = both sides / halogen-free plastic

K Execution

- N = Standard
- S = Special version

Other sizes and variants are available on request.

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.

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