

# The Patented Solution for Sterile Air: MaxiLight HEPA Filters of Class H 13 292 mm Frame Depth / 280 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.)
- ▶ in the treatment of dangerous substances (asbestos disposal, heavy metals, carcinogenic dusts etc.)

## The special features and benefits

- ▶ High-efficiency 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.
- ▶ 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.
- ▶ The filters are equipped with plastic protection grids on both sides.



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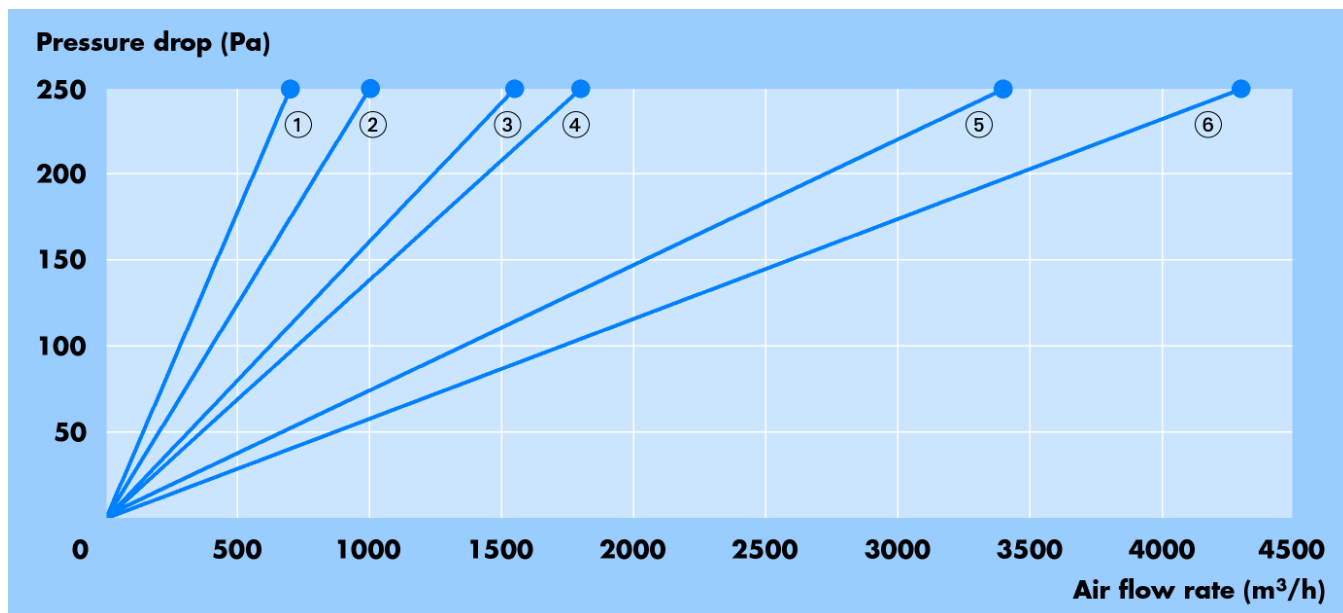
Parameters	Product line SF 13
Filter minimum efficiency for MPPS (= Most Penetrating Particle Size) according to EN 1822	≥ 99.95 %
Efficiency / Dust Class according to EN 60335-2-69	≥ 99.995 % H
Recommended final pressure drop	600 Pa
Max. permissible pressure drop	3000 Pa
Thermal stability	70 °C
Humidity resistance, rel. humidity	up to 100 %

Product line SF 13 Dimensions + gasket (mm)	Pleat depth (mm)	Volume flow rate at 250 Pa (m³/h)
305 x 305 x 292 + 6	280	700
610 x 204 x 292 + 6	280	1000
610 x 305 x 292 + 6	280	1550
457 x 457 x 292 + 6	280	1800
610 x 610 x 292 + 6	280	3400
610 x 762 x 292 + 6	280	4300

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# Pressure drops of product line SF 13

## 292 mm frame depth / 280 mm pleat depth



(1) 305 mm x 305 mm  
(2) 610 mm x 204 mm

(3) 610 mm x 305 mm  
(4) 457 mm x 457 mm

(5) 610 mm x 610 mm  
(6) 610 mm x 762 mm

### Item code of product line SF 13

**Example: SF 13 - K - 0610 x 0610 x 292 x 28 - N 1 8 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**

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 upon 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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