

# Versatile and Cost-efficient for Cleanrooms: HEPA Filters of Class H 14

## 68 mm Frame Depth / 50 mm Pleat Depth

### The application

Viledon High Efficiency Particulate Air (HEPA) filters of Class H 14 are used for intake and recirculating air filtration of cleanrooms and clean benches (laminar flow boxes) requiring the highest clean air quality and sterility, such as

- ▶ in hospitals / medical institutes, pharmacies, sterile rooms, labs, research centers etc.
- ▶ in highly sensitive industrial processes (pharmaceuticals, biotechnology, chemicals, optics, food/beverages, micro-electronics etc.)
- ▶ in ceiling outlets and modules of flexible cleanroom systems.

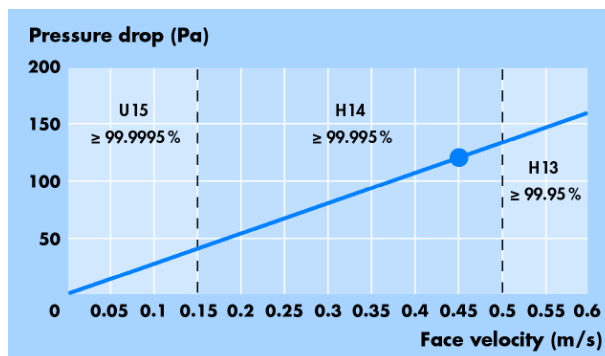
### The special features and benefits

- ▶ High-efficiency micro-glassfiber papers are used as filter media.
- ▶ The minipleat technique applied ensures **flow-optimized geometry and equidistance of the pleats**, and therefore **homogeneous air passage at a very low pressure drop**. This results in remarkably **economical and reliable operation** as well as **quasi-laminar 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 is made of extruded anodized **aluminium**. The sturdy construction is **moisture-resistant** and offers **maximized security against the growth of bacteria and moulds**.
- ▶ **Easy handling and mounting**, thanks to **high twist strength** and a continuous, homogeneously foamed-on polyurethane gasket.
- ▶ The filter elements have **protection grids** made of powder-coated metal mesh on both sides.
- ▶ On request with a laminarizing medium on the clean-air side.
- ▶ **Also available in Class H13 and as ULPA filters in Classes U15 – U17.**



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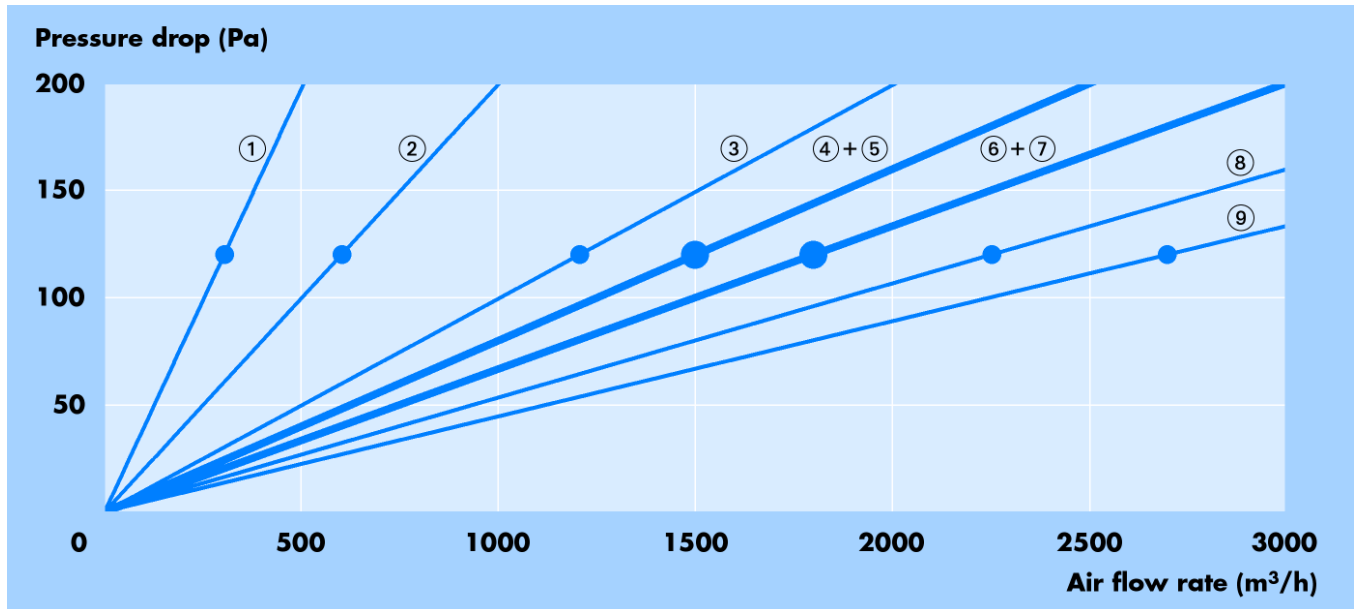
Parameters	Product line SF 14
Filter minimum efficiency for MPPS (= Most Penetrating Particle Size) according to EN 1822	≥ 99.995 %
Initial pressure drop at 0.45 m/s	120 Pa
Recommended final pressure drop	600 Pa
Thermal stability	70 °C
Humidity resistance, rel. humidity	up to 100 %



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# Pressure drops of product line SF 14

## 68 mm frame depth / 50 mm pleat depth



- (1) 610 mm x 305 mm
- (2) 610 mm x 610 mm
- (3) 610 mm x 1220 mm

- (4) 762 mm x 1220 mm
- (5) 610 mm x 1525 mm
- (6) 610 mm x 1830 mm

- (7) 915 mm x 1220 mm
- (8) 762 mm x 1830 mm
- (9) 915 mm x 1830 mm

### Item code of product line SF 14

<b>Example:</b>	<b>SF 14</b>	<b>-</b>	<b>A</b>	<b>-</b>	<b>0610</b>	<b>x</b>	<b>0610</b>	<b>x</b>	<b>068</b>	<b>x</b>	<b>05</b>	<b>-</b>	<b>N</b>	<b>1</b>	<b>3</b>	<b>N</b>		
			▼		▼		▼		▼		▼		▼	▼	▼	▼		
			<b>A</b>		<b>B</b>		<b>C</b>		<b>D</b>		<b>E</b>		<b>F</b>		<b>G</b>	<b>H</b>	<b>I</b>	<b>K</b>

**A HEPA filter Class H 14**

**B Frame material**

A = Extruded anodized aluminium

**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

Z = without gasket

**H Position of gasket**

0 = without gasket

1 = one side

2 = downstream side

3 = both sides

**I Protection grid**

3 = both sides / powder-coated metal mesh

7 = both sides / powder-coated metal mesh

with laminarizing medium on downstream side

**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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