

Very Large Filter Area for Maximized Air Flow: Viledon High Capacity HEPA Filters 292 mm Frame Depth, Filter Class H 14

The application

Viledon high capacity HEPA filters of Class H 14 are used for intake, exhaust and re-circulating air filtration of cleanrooms and ventilation systems 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.)

The special features and benefits

- ▶ High-efficiency micro-glassfiber papers are used as filter media.
- ▶ The minipleat technique applied and the V-shaped configuration of the pleat panels ensure the **especially large filter surface area** for **maximized air flow** per filter element and **homogeneous air passage** at a **very low pressure drop**. This results in remarkably **economical and reliable operation with a very long useful lifetime**.
- ▶ **Each filter element is tested for integrity to EN 1822 and supplied with the individual test certificate.**
- ▶ The frame is made of **galvanized or stainless steel sheets**. The extremely solid construction is **moisture-resistant** and offers **high security against the growth of bacteria and moulds**.
- ▶ As standard, the filters are supplied with a continuous, homogeneously foamed-on semicircular profile gasket made of polyurethane. Also available with a flat gasket on request.
- ▶ The filter elements are equipped with **lateral gripping lugs and a hand strap** for easier handling and mounting.



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Parameters	Product line SF 14
Minimum efficiency for MPPS * according to EN 1822	≥ 99.995 %
Initial pressure drop at nominal air flow rate	320 Pa
Recommended final pressure drop	600 Pa
Maximum permissible pressure drop	1000 Pa
Thermal stability	70 °C
Humidity resistance, rel. humidity	up to 100 %

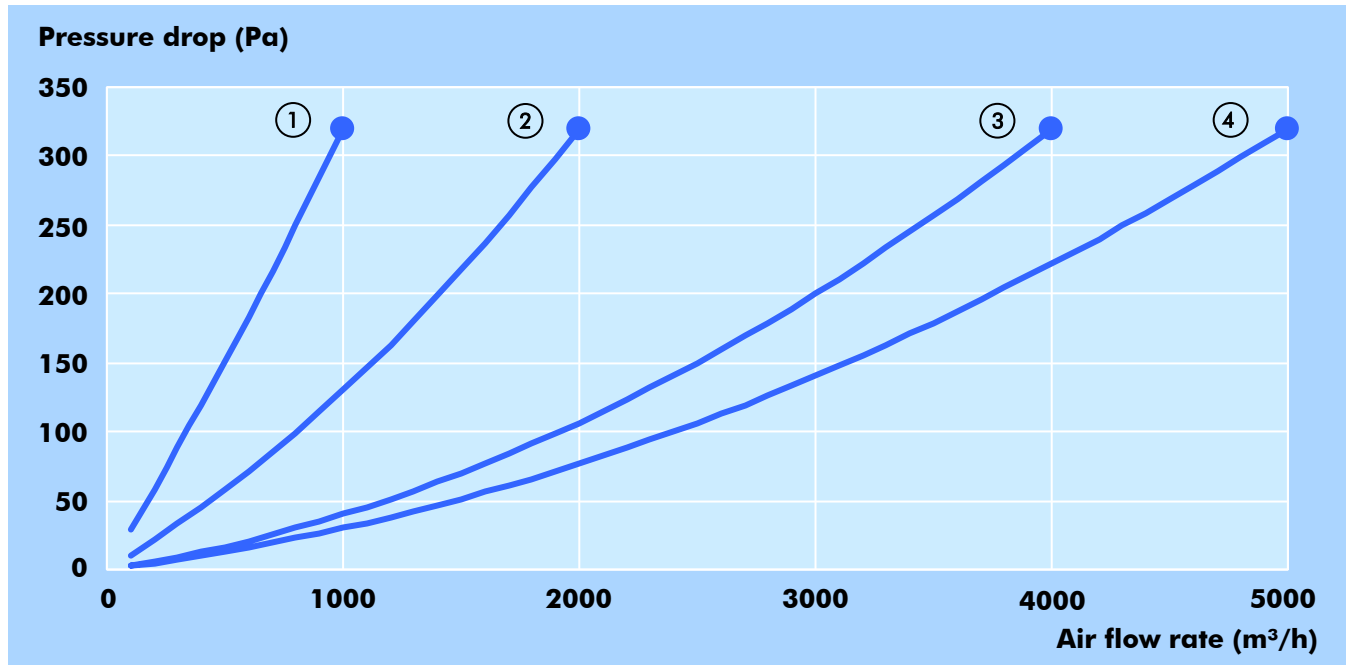
* MPPS = Most Penetrating Particle Size

Product line SF 14 Dimensions + gasket (mm)	Filter surface area (m ²)	Nom. air flow rate at 320 Pa (m ³ /h)
305 x 305 x 292 + 6	10	1000
305 x 610 x 292 + 6	21	2000
610 x 610 x 292 + 6	42	4000
762 x 610 x 292 + 6	49	5000

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Pressure drops of product line SF 14

Frame depth 292 mm



① 305 mm x 305 mm ② 305 mm x 610 mm ③ 610 mm x 610 mm ④ 762 mm x 610 mm

Article code for high capacity HEPA filters, product line SF 14

Example:	SF 14	-	B	-	0610	x	0610	x	292	/	V12	x	25	-	N	1	0	N
	▼		▼		▼		▼		▼		▼		▼		▼	▼	▼	▼
	A		B		C		D		E		F		G		H	I	K	

A HEPA filter Class H 14

B Frame material

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 Number and pleat depth of the panels / mm

e.g. V12x25 = 12 panels,
25 mm pleat depth

G Type of gasket

N = PU semicircular profile gasket
W = glued-on flat gasket
Z = no gasket

H Position of gasket

0 = no gasket
1 = one side
3 = both sides

I Protection grids

0 = no protection grids

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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