Compact and lightweight for flexible installation: Viledon Terminal HEPA Filter/Hood Modules with plastic hood, Filter Class H 14

The application

Viledon High-Efficiency-Particulate-Air (HEPA) filter/hood modules of Class H 14 are used for intake and recirculating air filtration of cleanrooms and flexible cleanroom systems requiring the highest clean air quality and sterility, such as

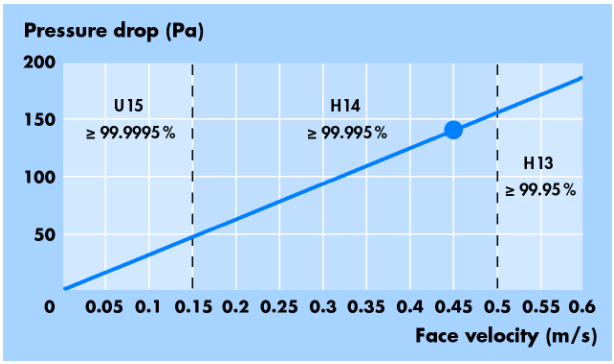
- in hospitals / medical institutes, pharmacies, sterile rooms, labs, research centers etc.
- in highly sensitive industrial processes (pharmaceuticals, biotechnology, chemicals, optics, food/beverages, micro-electronics etc.)

The special features and benefits

- High-efficiency micro-glassfiber papers are used as filter media.
- The minipleat technique applied 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,** with an **airtight, cast-in polystyrene plenum hood** on the upstream side. An **integrated perforated deflector plate** equalizes the incoming air flow. The sturdy construction is **moisture-resistant** and offers **high security against the growth of bacteria and moulds**.
- **Easy handling and mounting,** as the units are **distortion-resistant** and **exceptionally lightweight.**
- The filter/hood modules have **protection grids** made of powder-coated metal mesh on the clean-air side and an aerosol/Δp measuring port.
- On request with an integrated adjustable damper.
- On request with clean-air-side gasket.
- **Also available as ULPA filter Class U15.**

Parameters	Product line SF 14
Minimum efficiency for MPPS * according to EN 1822	≥ 99.995 %
Initial pressure drop at 0.45 m/s	140 Pa
Recommended final pressure drop	600 Pa
Maximum permissible pressure drop	1000 Pa
Thermal stability	70 °C
Humidity resistance, rel. humidity	up to 100 %

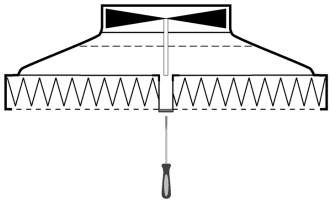
* MPPS = Most Penetrating Particle Size



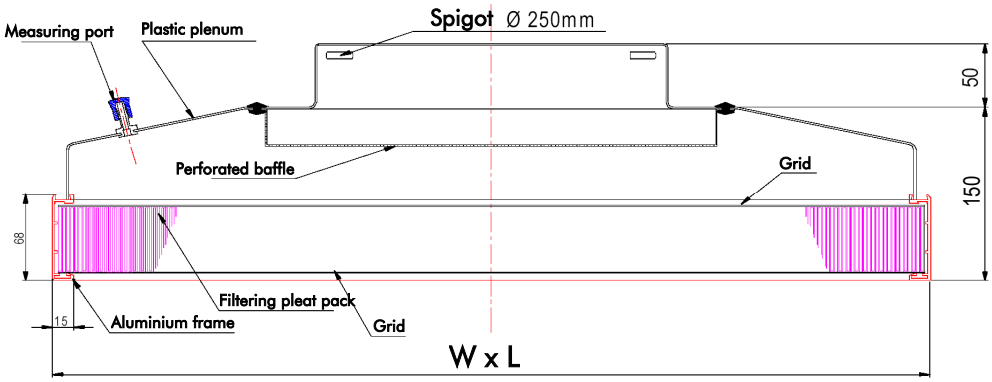
Available standard dimensions

Type	Nominal air flow rate	Filtering aera	Dimensions (mm)	
			Width	Length
SF14-A-0297x0595x150-__2H-250x50	300 m³/h	5.0 m²	297	595
SF14-A-0300x0600x150-__2H-250x50	300 m³/h	5.2 m²	300	600
SF14-A-0305x0610x150-__2H-250x50	300 m³/h	5.5 m²	305	610
SF14-A-0595x0595x150-__2H-250x50	600 m³/h	10.0 m²	☐ 595	
SF14-A-0600x0600x150-__2H-250x50	600 m³/h	10.6 m²	☐ 600	
SF14-A-0610x0610x150-__2H-250x50	600 m³/h	11.0 m²	☐ 610	
SF14-A-0595x1205x150-__2H-250x50	1200 m³/h	21.0 m²	595	1205
SF14-A-0600x1210x150-__2H-250x50	1200 m³/h	21.2 m²	600	1210
SF14-A-0610x1220x150-__2H-250x50	1200 m³/h	22.0 m²	610	1220

Additional option: with integrated adjustable damper



Option T / S



Article code for terminal HEPA filter/hood modules, filter class H 14

Example:	SF 14	– A –	0610 x 1220 x	150 x	05 –	Z	0	2	H –	250x50 –	T
	▼ A	▼ B	▼ C	▼ D	▼ E	▼ F	▼ G	▼ H	▼ I	▼ K	▼ L	▼ M

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 Depth without connection spigot / 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
2 = downstream side

I Protection grid
2 = powder-coated metal mesh
4 = aluminium mesh
6 = stainless steel mesh

K Design
H = Standard with hood
S = Special design

L Diameter x Height of connection spigot / mm

M Options (blank = no options)
T = integrated adjustable damper, 1 piece
S = integrated adjustable damper, 4 wings

Other sizes and variants are available on request.

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