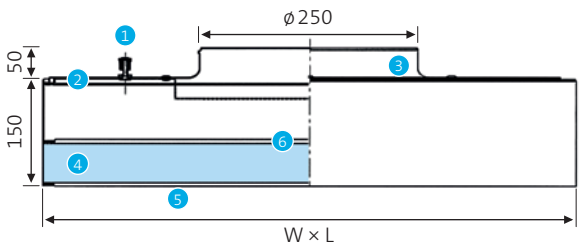
COMPACT AND LIGHTWEIGHT FOR FLEXIBLE INSTALLATION

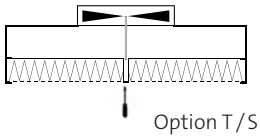
VILEDON HEPA FILTER / HOOD MODULES WITH ALUMINUM HOOD, FILTER CLASS H 14

DIMENSIONS



1 = Measuring port
2 = Aluminum plenum
3 = Spigot
4 = Pleat pack
5 = Aluminum frame
6 = Grid

Additional option: with integrated adjustable damper



Option T / S

The application

Viledon® HEPA filter / hood modules of filter 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)

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 dependable operation plus an unidirectional airflow**.
- **Each filter element is tested using state-of-the-art scanning equipment** for arrestance efficiency and leak-proofing in accordance with EN 1822, and delivered together with the corresponding **test certificate.**
- The frame is made of extruded anodized aluminum, with an **airtight, cast-in aluminum plenum hood** on the upstream side. 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 and / or clean-air-side flat gasket.
- **Also available in filter classes H 13 and U 15**.

KEY DATA		
Filter class acc. to EN 1822:2009	%	H 14
Filter class acc. to ISO 29463	%	ISO 45 H
Minimum efficiency for MPPS*	%	≥ 99.995
Initial pressure drop at 0.45 m/s	Pa	140
Recommended final pressure drop**	Pa	600
Maximum permissible pressure drop	Pa	1,000
Thermal stability	°C	70
Humidity resistance (rel. hum.)	%	bis 100

* MPPS = Most Penetrating Particle Size

** For cost-efficiency or system-specific reasons it may be appropriate to change the filters before reaching the stated final pressure drop. It can also be exceeded in certain applications.

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Available standard dimensions

TYPE	NOMINAL AIR FLOW RATE [m³/h]	FILTERING AERA [m²]	DIMENSIONS [mm]
SF14-A-0305x0610x150x05-__2H-AL-250x50	280	4.2	305×610
SF14-A-0595x0595x150x05-__2H-AL-250x50	575	8.4	595×595
SF14-A-0610x0610x150x05-__2H-AL-250x50	600	8.8	610×610
SF14-A-0595x1195x150x05-__2H-AL-250x50	1,100	17.2	595×1,195
SF14-A-0610x0915x150x05-__2H-AL-250x50	900	13.4	610×915
SF14-A-0610x1220x150x05-__2H-AL-250x50	1,200	18.3	610×1,220

Article code for HEPA filter / hood modules, filter class H 14 (Example)

SF 14 – A – 0610 × 1220 × 150 × 05 – Z 0 2 H – AL – 250 × 50 – T

❶ ❷ ❸ ❹ ❺ ❻ ❼ ❽ ❾ ❿ ⓫ ⓬ ⓭ ⓮

❶ HEPA Filter class H 14
❷ Frame material:
A = Extruded anodized aluminum
❸ Frame width [mm]: 4 digits
❹ Frame length [mm]: 4 digits
❺ Depth without connection spigot [mm]: 3 digits
❻ Pleat depth [cm]: 2 digits
❼ Type of gasket:
W = flat gasket
Z = without gasket
❽ Position of gasket:
0 = without
2 = downstream side
❾ Protection grid:
2 = powder-coated metal mesh
4 = aluminum mesh
6 = stainless steel mesh
❿ Design:
H = Standard with hood
S = Special design
⓫ Hood material: AL = Aluminum
⓬ Diameter of connection spigot [mm]
⓭ Height of connection spigot [mm]
⓮ Options: (blank = no options)
T = integrated adjustable damper, 1 piece
S = integrated adjustable damper, 4 wings

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. You will find instructions on how to handle and dispose of loaded filters in our information on product safety and eco-compatibility.

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