

EFFICIENT AIR FILTRATION – HEPA FILTERS WITH PLASTIC FRAME

FILTER CLASS H13

FILTER CLASS ACC. TO EN 1822:2009	FILTER CLASS ACC. TO ISO 29463	FRAME DEPTH [mm]	PLEAT DEPTH [mm]	STANDARD DIMENSIONS [mm]	GASKET [mm]
H13	ISO 35 H	150	100	305×305 457×457 610×305 610×610	6
H13	ISO 35 H	292	200 270		6



The application

Viledon® High Efficient Particulate Air (HEPA) filters of filter class H13 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, clean-rooms, etc.)
- in highly sensitive industrial processes (pharmaceuticals, biotechnology, chemicals, optics, food/beverages, micro-electronics, etc.)
- in the treatment of dangerous substances (asbestos disposal, heavy metals, carcinogenic dusts, etc.)
- as downstream polishing filters in dust removal applications

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**.
- The frame consists of halogen-free plastic and is **exceptionally distortion-resistant, moisture-resistant and fully incinerable**. Also available with a galvanized or stainless steel sheet frame on request.
- The entire filter element is **non-corroding and easy to dispose of**, as it is metal-free.
- Protection grids on both sides minimize the risk of damage to the filter medium. **Plastic protection grids** on both sides for filters with 270 mm pleat depths, for filters with 100 and 200 mm pleat depths available upon request.
- **Easy handling and mounting**, thanks to **exceptionally low weight**

and a continuous, homogeneously foamed-on polyurethane gasket. On request also with a flat gasket.

- Viledon® Efficient Particulate Air (EPA) filters are **microbiologically inactive and meet all hygiene requirements of the German VDI Guideline 6022** “Hygiene requirements for HVAC systems and units”.
- Each filter element is leakproofed in accordance with DIN EN 1822 and delivered together with the corresponding test certificate.
- Filters with a pleat depth of 270 mm meet the requirements laid down in DIN EN 60335-2-69 for filters being used in dust-eliminating machines and equipment of dust class “H”.

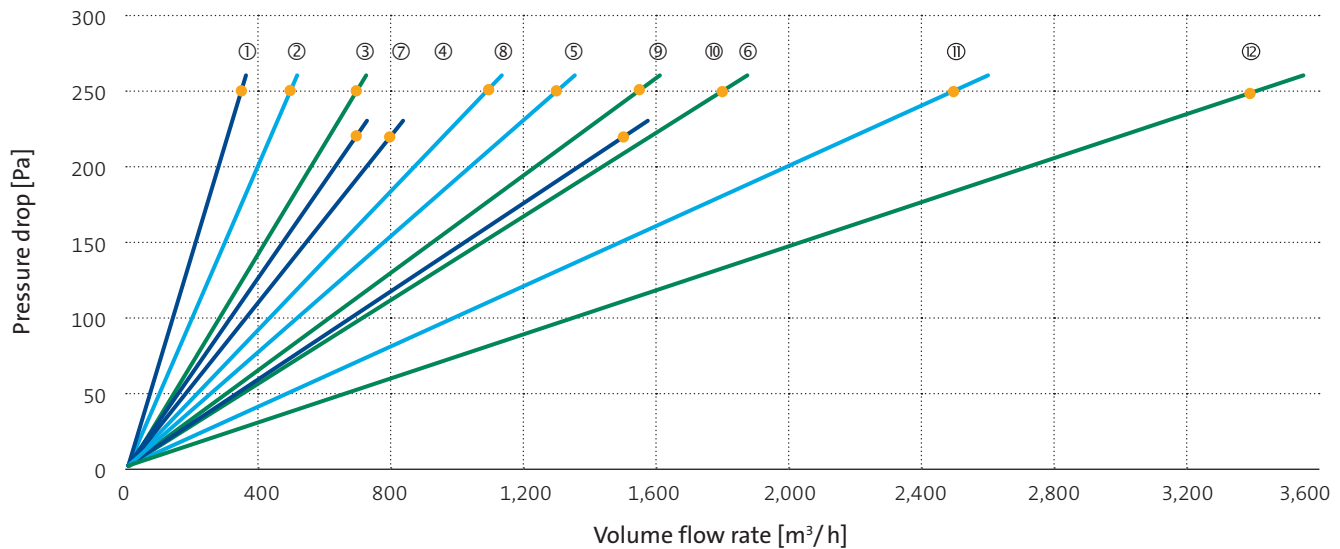
* Most Penetrating Particle Size

** 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.

KEY DATA		610×610	610×305	457×457	305×305
Frame depth	mm	150 292 292	150 292 292	150 292 292	150 292 292
Pleat depth	mm	100 200 270	100 200 270	100 200 270	100 200 270
Nominal volume flow rate ●	m³/h	1,500 2,500 3,400	700 1,100 1,550	800 1,300 1,800	350 500 700
Initial pressure drop	Pa	220 250 250	220 250 250	220 250 250	250 250 250
Arrestance efficiency MPPS*	%	≥99.95	≥99.95	≥99.95	≥99.95
Recommended final pressure drop**	Pa	600	600	600	600
Max. permissible pressure drop	Pa	3,000	3,000	3,000	3,000
Thermal stability	°C	70	70	70	70
Moisture-resistance (rel. hum.)	%	100	100	100	100

TECHNICAL FILTER TEST DATA TO EN 1822

Initial pressure drop curves



① 305 mm × 305 mm / Frame depth 150 mm	⑤ 457 mm × 457 mm / Frame depth 292 mm	⑨ 610 mm × 305 mm / Frame depth 292 mm
② 305 mm × 305 mm / Frame depth 292 mm	⑥ 457 mm × 457 mm / Frame depth 292 mm	⑩ 610 mm × 610 mm / Frame depth 150 mm
③ 305 mm × 305 mm / Frame depth 292 mm	⑦ 610 mm × 305 mm / Frame depth 150 mm	⑪ 610 mm × 610 mm / Frame depth 292 mm
④ 457 mm × 457 mm / Frame depth 150 mm	⑧ 610 mm × 305 mm / Frame depth 292 mm	⑫ 610 mm × 610 mm / Frame depth 292 mm

— Pleat depth 100 — Pleat depth 200 — Pleat depth 270 ● Nominal volume flow rate

Item code of product line H 13 (Example)

SF 13 - K - 0610 × 0610 × 292 × 20 - N 1 0 N

▼ ▼ ▼ ▼ ▼ ▼ ▼ ▼ ▼ ▼

① ② ③ ④ ⑤ ⑥ ⑦ ⑧ ⑨ ⑩

- ① EPA filter class H 13
- ② Frame material:
K = halogen-free plastic
- ③ Frame width [mm]: 4 digits
- ④ Frame length [mm]: 4 digits
- ⑤ Frame depth [mm]: 3 digits
- ⑥ Pleat depth [cm]: 2 digits
10 = 100 mm
20 = 200 mm
27 = 270 mm
- ⑦ Type of gasket:
N = foamed-on PU semicircular profile gasket
W = glued on rectangular flat gasket
- ⑧ Position of gasket:
1 = one side
3 = both sides
- ⑨ Protection grid:
0 = without (only for 100 and 200 mm pleat depth)
8 = both sides / halogen-free plastic
- ⑩ Execution:
N = standard
S = special version

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.