EFFICIENT AIR FILTRATION – EPA FILTERS WITH PLASTIC FRAME

viledon®

FILTER CLASS E 11

FILTER CLASS ACC. TO EN 1822:2009	FILTER CLASS ACC. TO ISO 29463	FRAME DEPTH [mm]	PLEAT DEPTH [mm]	STANDARD DIMENSIONS [mm]	GASKET [mm]
E 11	ISO 15 E	150	100	610×305 610×610 610×762	6
E 11	ISO 15 E	292	200 | 270		6

VDI 6022

The application

Viledon® Efficient Particulate Air (EPA) filters of filter class E 11 are used for intake, exhaust and recirculating air filtration of ventilation systems with special requirements for clean air quality, such as

- in sophisticated air-conditioning applications (hospitals, labs, cleanrooms, museums, etc.)
- in sensitive industrial processes (pharmaceuticals, biotechnology, chemicals, optics, food / beverages, microelectronics, etc.)
- as downstream policing 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.
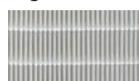
- Our patented thermal embossing technique ensures the optimum V-shaped geometry and equidistanceof the pleats, and therefore maximum, homogeneous air passage at a very low pressure drop. This results in a remarkably economical and reliable operation.
- The frame consists of halogen-free plastic and 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.
- 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".

* 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		610×762	610×610	610×305
Frame depth	mm	150 | 292 | 292	150 | 292 | 292	150 | 292 | 292
Pleat depth	mm	100 | 200 | 270	100 | 200 | 270	100 | 200 | 270
Nominal volume flow rate ●	m³/h	2,450 | 4,000 | 4,300	2,000 | 3,000 | 3,400	1,000 | 1,400 | 1,550
Initial pressure drop	Pa	160	160	160
Arrestance efficiency MPPS*	%	≥95	≥95	≥95
Recommended final pressure drop**	Pa	600	600	600
Max. permissible pressure drop	Pa	3,000	3,000	3,000
Thermal stability	°C	70	70	70
Moisture-resistance (rel. hum.)	%	100	100	100

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AIR AND WATER TECHNOLOGIES

TECHNICAL FILTER TEST DATA TO EN 1822

Initial pressure drop curves
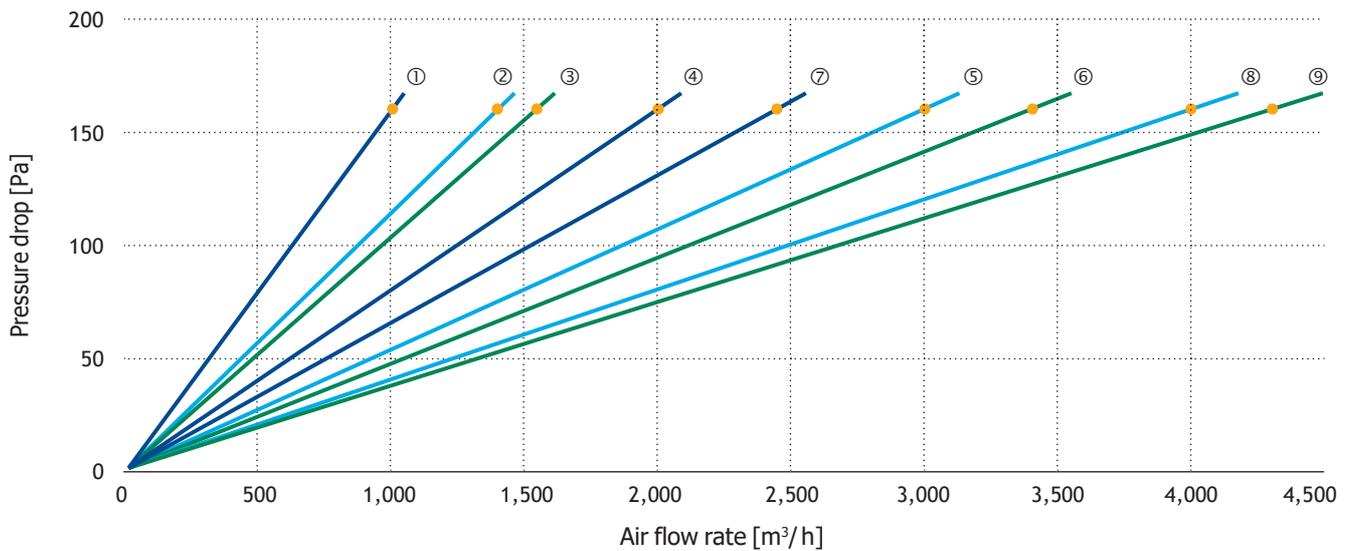
① 610 mm × 305 mm / Frame depth 150 mm
② 610 mm × 305 mm / Frame depth 292 mm
③ 610 mm × 305 mm / Frame depth 292 mm

④ 610 mm × 610 mm / Frame depth 150 mm
⑤ 610 mm × 610 mm / Frame depth 292 mm
⑥ 610 mm × 610 mm / Frame depth 292 mm

⑦ 610 mm × 762 mm / Frame depth 150 mm
⑧ 610 mm × 762 mm / Frame depth 292 mm
⑨ 610 mm × 762 mm / Frame depth 292 mm

— Pleat depth 100 mm   — Pleat depth 200 mm   — Pleat depth 270 mm   ● Nominal air flow rate

Item code of product line E 11 (Example)

SF11 – K – 0610 × 0610 × 292 × 20 – N 1 0 N
❶ ❷ ❸ ❹ ❺ ❻ ❼❽❾❿

❶ EPA filter class E 11
❷ Frame material:
   K = halogen-free plastic
❸ Frame width [mm]: 4 digits
❹ Frame length [mm]: 4 digits
❺ Frame depth [mm]: 3 digits
❻ Pleat depth [cm]: 2 digits
   10 = 100 mm
   20 = 200 mm
   27 = 270 mm

❼ Type of gasket:
   N = foamed-on PU semicircular profile gasket
   W = glued on rectangular flat gasket
❽ Position of gasket:
   1 = one side
   3 = both sides

❾ Protection grid:
   0 = without (only for 100 and 200 mm pleat depth)
   8 = both sides / halogen-free plastic
❿ 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.

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