

# The Patented Solution for Enhanced Clean Air Quality: HEPA Filters of Class H 11

## 292 mm Frame Depth / 200 mm and 280 mm Pleat Depth

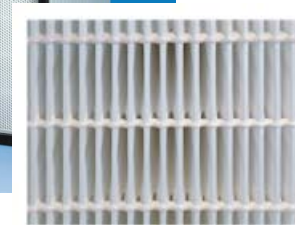
### The application

Viledon High Efficiency Particulate Air (HEPA) filters of Class H 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, chemicals, optics, food/beverages, micro-electronics 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 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**. The patented construction offers **maximized security against the growth of bacteria and moulds** (independent test certificates on file). Also available with a galvanized or stainless steel sheet frame on request.
- ▶ **Easy handling and mounting** thanks to **exceptionally low weight** and a continuous, homogeneously foamed-on polyurethane gasket.
- ▶ The entire filter element is **non-corroding** and **easy to dispose of**, as it is metal-free.
- ▶ **Plastic protection grids** on both sides for filters with 280 mm pleat depths, for filters with 200 mm pleat depths available upon request.



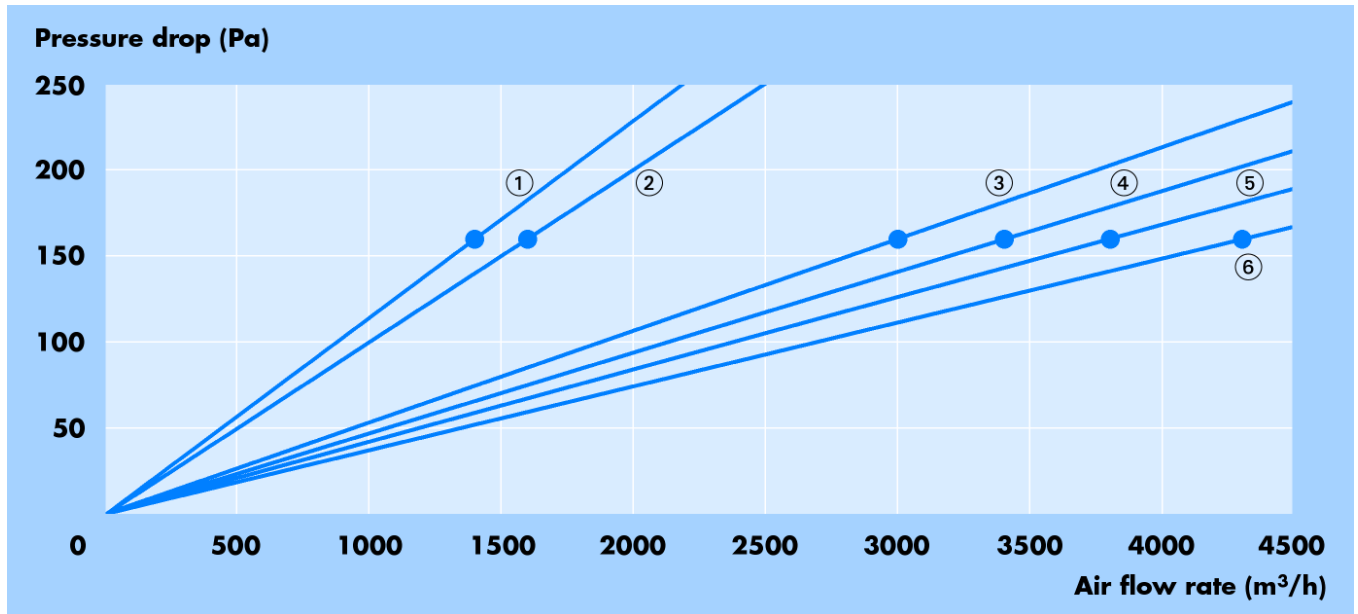
Parameters	Product line SF 11
Filter minimum efficiency for MPPS (= Most Penetrating Particle Size) according to EN 1822	≥ 95 %
Recommended final pressure drop	600 Pa
Max. permissible pressure drop	3000 Pa
Thermal stability	70 °C
Humidity resistance, rel. humidity	up to 100 %

Product line SF 11 Dimensions + gasket (mm)	Pleat depth (mm)	Volume flow rate at 160 Pa (m³/h)
610 x 305 x 292 + 6	200	1400
610 x 610 x 292 + 6	200	3000
610 x 762 x 292 + 6	200	3800
610 x 305 x 292 + 6	280	1600
610 x 610 x 292 + 6	280	3400
610 x 762 x 292 + 6	280	4300



# Pressure drops of product line SF 11

## 292 mm frame depth / 200 mm and 280 mm pleat depth



- (1) 610 mm x 305 mm / 200 mm pleat depth
- (2) 610 mm x 305 mm / 280 mm pleat depth
- (3) 610 mm x 610 mm / 200 mm pleat depth

- (4) 610 mm x 610 mm / 280 mm pleat depth
- (5) 610 mm x 762 mm / 200 mm pleat depth
- (6) 610 mm x 762 mm / 280 mm pleat depth

### Item code of product line SF 11

<b>Example:</b>	<b>SF 11</b>	<b>-</b>	<b>K</b>	<b>-</b>	<b>0610</b>	<b>x</b>	<b>0610</b>	<b>x</b>	<b>292</b>	<b>x</b>	<b>20</b>	<b>-</b>	<b>N</b>	<b>1</b>	<b>0</b>	<b>N</b>
	▼		▼		▼		▼		▼		▼		▼	▼	▼	▼
	<b>A</b>		<b>B</b>		<b>C</b>		<b>D</b>		<b>E</b>		<b>F</b>		<b>G</b>	<b>H</b>	<b>I</b>	<b>K</b>

**A HEPA filter Class H 11**

**B Frame material**

- K = Halogen-free plastic
- 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 Pleat depth / cm, 2 digits**

- 20 = 200 mm
- 28 = 280 mm

**G Type of gasket**

- N = PU semicircular profile gasket

**H Position of gasket**

- 1 = one side
- 3 = both sides

**I Protection grid**

- 0 = without (only for 200 mm pleat depth)
- 3 = both sides / powder-coated metal mesh
- 4 = both sides / aluminium mesh
- 8 = both sides / halogen-free plastic

**K Execution**

- N = Standard
- S = Special version

**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.

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