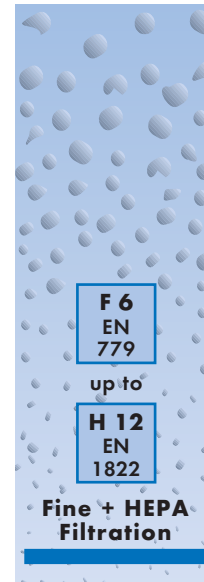


Potent Spacesavers for Combinations: The MaxiPleat Modular Filter System Filter Classes F 6 – H 12



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The application

The Viledon MaxiPleat Modular Filter System is used for supply, exhaust and recirculated air filtration in ventilation systems which have stringent requirements for clean air quality, particularly when space is limited, e.g.

- ▶ in intake air filtration for turbomachinery
- ▶ in industrial processes
- ▶ in sophisticated air-conditioning applications.

With the MaxiPleat Modular Filter system, MaxiPleat filters of different filter classes and depths can be combined in a positive fit by simple plug-on. This allows an additional filter stage to be inserted without any structural modifications.

The special features and benefits

- ▶ High-strength micro-glassfiber papers with a special thermoplastic bonding system and water-resistant coating are used as filter media. Our patented thermal embossing process, with its optimum V-shaped pleat geometry, ensures full utilization of the filtering area and uniform dust deposition, plus homogeneous air flow coupled with a low average pressure drop, i. e. a very slow increase in the pressure drop. This means a long useful lifetime, with cost-efficient and reliable operation.
- ▶ For installation, the MaxiPleat main filter, with its black connecting pins, is inserted into the existing support system. The prefilter with the white connecting caps can now be simply plugged onto the already-installed main filter, and will engage with an audible click. The connecting pins engaged in the main filter cannot be removed. The plugged-on prefilter can, however, be removed again and replaced.

- ▶ Besides the standard version with 25 mm front frame thickness, the MaxiPleat main filters are also available with a 20.5 mm thick front frame, and are delivered with the connecting pins fitted. An optional water barrier prevents intaken water from reaching the clean-air side. Foamed-on PU gasket upon request. In the standard version, the prefilters are supplied without a front frame, with a gasket on the clean-air side and with connecting caps fitted.

- ▶ The filter elements are non-corroding and fully incinerable, as they contain no metal parts. Frame and protection grids are made of halogen-free plastic.

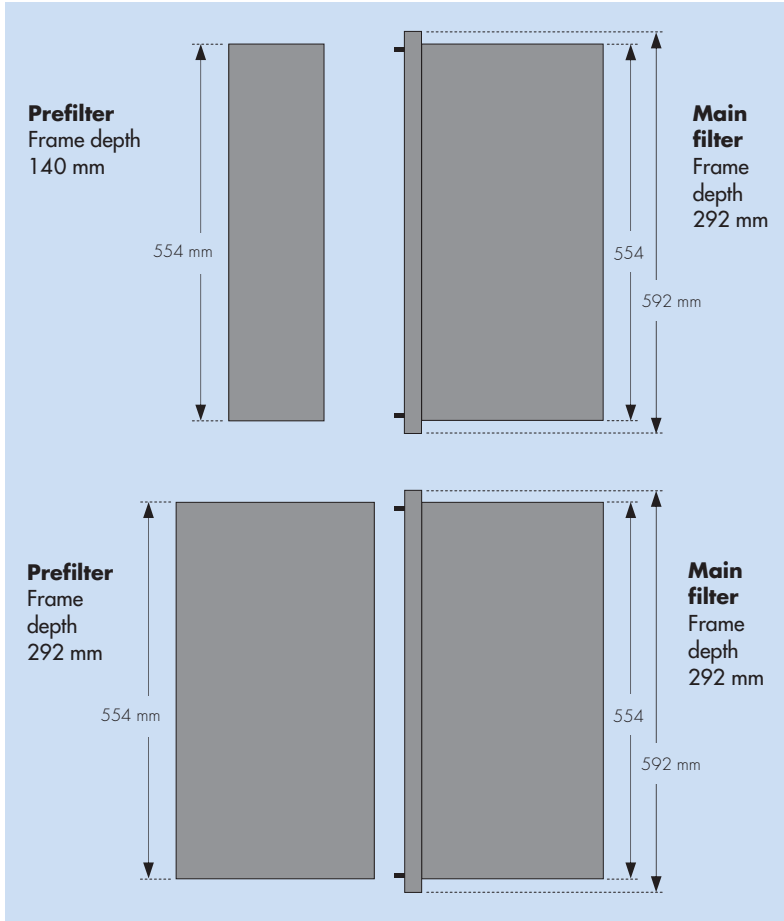
- ▶ Viledon MaxiPleat filters are moisture-resistant up to 100% rel. humidity, thermally stable up to 70°C (temporarily up to 80°C), microbiologically inactive and meet all hygiene requirements for HVAC systems to EN13779 and the German VDI Guideline 6022. The frame and filter media are self-extinguishing to DIN 53438 (Fire Class F1).

The extras

- ▶ The leak-proof casting of the dimensionally stable pleat pack in the distortion-resistant plastic frame results in outstanding bursting strength as well as high security against dust penetration. Gripping lugs facilitate mounting and removal, and protection grids on both sides minimize the risk of damage to the filter medium.

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The MaxiPleat Modular Filter System



Recommended filter combinations

Prefilter	Main filter
without front frame W x L = 554 x 554 mm Depth 140 or 292 mm	with front frame W x L = 592 x 592 mm Depth 292 mm
MX 75	MX 98
MX 85	MX 98 / MX 100
MX 95	MX 100 / MX 120
MX 98	MX 120

If a main filter without a front frame is selected, a prefilter with front dimensions of 592 x 592 mm must be combined.

Key Data		MX 75	MX 85	MX 95	MX 98	MX 100	MX 120
Filter Class to EN 779/EN 1822		F 6	F 7	F 8	F 9	H 11	H 12
Frame Depth	mm	140 / 292	140 / 292	140 / 292	292	292	292
Front dimensions main filter 1/1, for mounting frame	mm	592 x 592 610 x 610	592 x 592 610 x 610	592 x 592 610 x 610	592 x 592 610 x 610	592 x 592 610 x 610	592 x 592 610 x 610
Weight, approx.	kg	4 / 7	4 / 7	4 / 7	7	7	7
Volume flow rate	m ³ /h	3,400	3,400	3,400	3,400	3,400	3,400
Initial pressure drop	Pa	130 / 75	135 / 80	145 / 85	100	195	320

Important:
Filter support systems must be checked for their static strength in regard to filter weights and the pressure drops encountered.

The prefilters are also available to suit main filters in sizes 5/6 and 1/2.

Important: when installing the prefilter, an additional mounting bracket must be used, in order to reliably preclude under all operating conditions the possibility of the prefilter becoming detached. The Modular Filter System is not intended for overhead installation. For further information on the MaxiPleat filters, particularly detailed technical filtering data, please consult the separate type data sheets.

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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