

# Viledon MP 45 KTC Pleated Panel Filters



## Main application

The MP 45 KTC filter cells are used for pre-filtration of supply, exhaust and recirculated air in ventilation systems and here extend the useful lifetimes of the downstream high-performance filters.

The MP 45 KTC filter cells can simply be plugged onto the Viledon MaxiPleat filters. This allows a prefilter stage to be inserted without any structural modifications.

## The filter media and the design

The filter medium used is a progressively structured, thermally bonded nonwoven made from break-resistant synthetic-organic fibers. The pleated filter medium is stabilized by horizontal hot-melt threads on both sides, and integrated in the sturdy nonwoven frame by hot-melt compound in a dust-proof configuration.



## Special features

- ▶ Four connection holes are incorporated in the frame corners of the clean-air side. Thus the prefilter can simply be plugged onto the already-installed MaxiPleat main filter equipped with black connecting pins. The connecting pins engaged in the main filter cannot be removed. The plugged-on MP 45 KTC prefilter can, however, be easily removed again and replaced. Even while the intake air system is actually running, the prefilter can be quickly and securely replaced.
- ▶ Velcro fastenings to the main filter make for increased stability during operation. On request, additional metal clamps are available, for ensuring secure retention in overhead configurations.
- ▶ The entire filter element is metal-free and thus non-corroding and fully incinerable.
- ▶ The filter cells are moisture-resistant up to 100% rel. humidity and thermally stable up to 70°C, with temporary peaks of up to 80°C possible.
- ▶ Frame and filter medium are self-extinguishing to DIN 53438 (Fire Class F1).

Key data	MP 45 KTC	
Filter Class to EN 779		G 4
Nominal volume flow rate	m <sup>3</sup> /h	3,400
Face velocity	m/s	3.1
Initial pressure drop	Pa	50
Recom. final pressure drop	Pa	250
Average arrestance	%	91
Length / Width	mm	555 x 555 *
Overall depth	mm	92
Effective filtering area	m <sup>2</sup>	2

\* Besides the 555 x 555 mm size, the filter is also available in 595 x 595 mm. This size is available only without connection holes and without Velcro fastenings.

The figures given are mean values, with 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.  
Replaces all previous issues of this data sheet.

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# Viledon MP 45 K Pleated Panel Filters



## Main application

The MP 45 K filter cells are used for pre-filtration in ventilation and air-conditioning equipment as well as in air intake systems and here extend the useful lifetimes of the downstream high-performance filters. The MP 45 K filter cells can be substituted for almost all commercially available filter cells and filter mats in replaceable frames.

## The filter media and the design

The filter medium used is a progressively structured nonwoven made from break-resistant synthetic-organic fibers. The frame is made of sturdy polypropylene plastic, and glued to the pleated filter medium at the four interior sides of the frame in a dust-proof configuration. A diagonally positioned protection grid on the downstream side enhances the frame's stability.

## Special features

The complete filter element is moisture-resistant up to 100% relative humidity, so that the dimensional stability is assured. The maximum temperature for thermal stability is 70°C, with temporary peaks of up to 80°C possible.



Key data		MP 45 K	
Filter class to EN 779		G 4	G 3
Nominal volume flow rate	m <sup>3</sup> /h	3,400	4,250
Face velocity	m/s	2.7	3.3
Initial pressure drop	Pa	75	95
Recom. final pressure drop	Pa	200	200
Average arrestance	%	90	88
Length / width	mm	595x595*	595x595*
Overall depth	mm	48	48
Effective filtering area	m <sup>2</sup>	1.1	1.1

\* Besides the 595 x 595 mm size, a large number of other frame sizes are available in overall depths of 48 and 96 mm.

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# Viledon MP 45 Pleated Panel Filters



## Main application

The MP 45 filter cells are used for prefiltration in ventilation and air-conditioning equipment as well as in air intake systems, and here extend the useful lifetimes of the downstream high-performance filters. The MP 45 filter cells can be substituted for almost all commercially available filter cells and filter mats in replaceable frames.

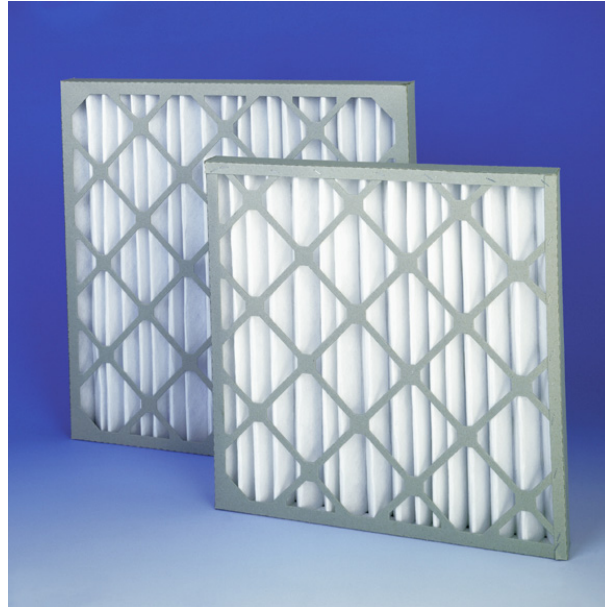
## The filter media and the design

The filter medium used is a progressively structured nonwoven made of break-resistant synthetic-organic fibers. The frame features sturdy, moisture-repellent cardboard, glued to the pleated filter medium at the four interior sides of the frame in a dust-proof configuration. Diagonally positioned protection grids enhance the frame's stability.

## Special features

The filter medium is moisture-resistant up to 100% relative humidity, so that the dimensional stability of the pleat package is assured.

The maximum temperature for thermal stability is 70°C, with temporary peaks of up to 80°C possible.



Key data		MP 45	
Filter class to EN 779		G 4	G 3
Nominal volume flow rate	m <sup>3</sup> /h	3,400	4,250
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