

VILEDON HYDROPACK MP 45 KTC-W



FILTER CELLS WITH COALESCING PROPERTIES

FILTER TYPE	FILTER CLASS TO ISO 16890	FILTER CLASS TO EN 779:2012
MP 45 KTC-W	ISO coarse 65%	G4



The application

Viledon® hydroPack MP45KTC-W filter cells are used for intake air filtration of

- gas turbines in power generation and in the oil and gas industry
- compressors and diesel and gas engines.

Here they extend the useful lifetimes of the downstream high-performance filters.

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 plastic frame by hot-melt compound in a dust-proof configuration.

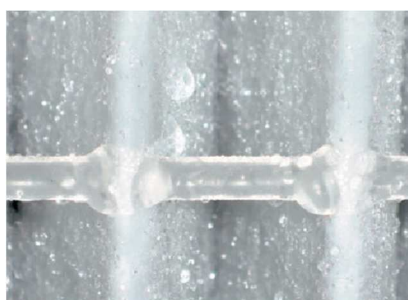
The special features

- A water barrier at the bottom of the filters back side reduces intaken water from reaching the clean-air side. This ensures enhanced prefilter lifetime and protection of the downstream filter stage.
- Thanks to coalescing properties ideally suited for applications where filters are exposed to constant water spray or fogging.
- hydroPack MP 45 KTC-W Filters are fully-potted resulting in a leak-free construction.
- 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. The filter medium is self-extinguishing to DIN 53438 (Fire class F1).
- Besides the standard version without gasket hydroPack filter elements are optionally available with a glued on gasket, either
 - gasket on the downstream side (same side as water barrier) or
 - gasket on the upstream side (opposite side of the water barrier)



With water barrier and gasket on the downstream side



Optimum coalescing properties



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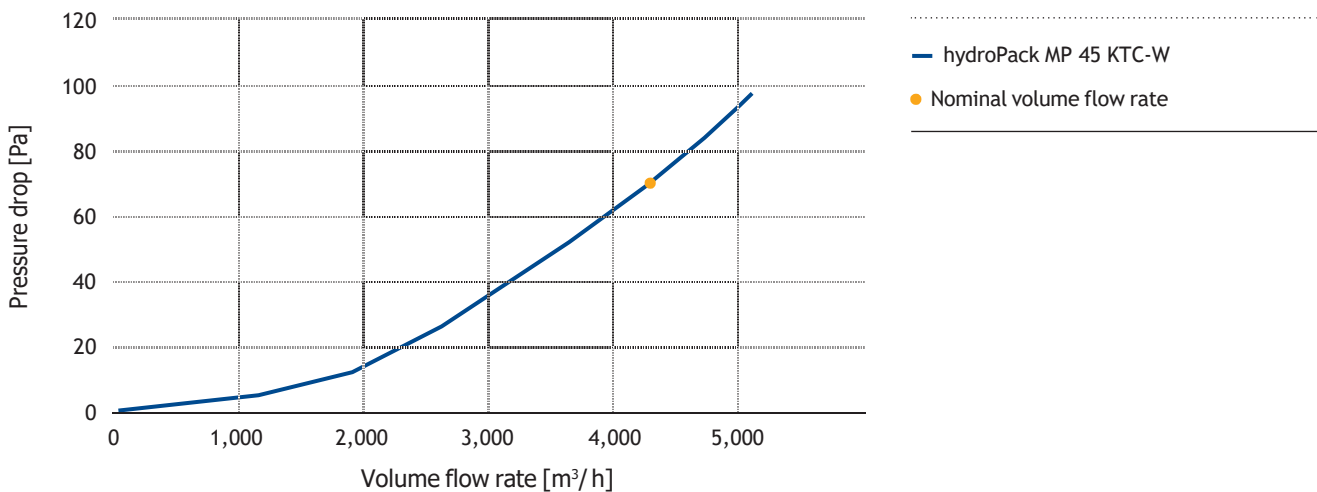
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AIR AND WATER TECHNOLOGIES

TECHNICAL FILTER TEST DATA TO EN 779

Initial pressure drop curve



KEY DATA		HYDROPACK MP 45 KTC-W
Nominal volume flow rate	m³/h	4,250
Face velocity	m/s	3.3
Initial pressure drop	Pa	70
Class to ISO 16890		ISO coarse 65%
Particulate matter efficiency ISO ePM10	%	45
Initial gravimetric arrestance	%	68
Filter class to EN 779:2012		G4
Recom. final pressure drop*	Pa	375
Bursting strength	Pa	> 2,000
Dust holding capacity approx. (AC-Fine / 375 Pa)*	g	800
Water retention (Viledon® water spray test - new state) 2 hours at 30 liters / hour	%	100

* For cost-efficiency or system-specific reasons it may be appropriate to change the filters before reaching the final pressure drop stated. It can also be exceeded in certain applications.

GEOMETRIES AVAILABLE		HYDROPACK MP 45 KTC-W
Front frame	mm	595 × 595
Overall depth	mm	96
Filtering area	m²	2.2
Suitable for standard mounting frame	mm	610 × 610
Thermal stability	°C	up to 70
Moisture resistance (rel. hum.)	%	up to 100

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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