

# WINAIR 50 POCKET FILTER



THE BUDGET ALTERNATIVE  
FOR A GOOD INDOOR CLIMATE

FILTER TYPE	FILTER CLASS TO ISO 16890	FILTER CLASS TO EN 779:2012
WinAir 50	ISO ePM10 55%	M5



## The application

The WinAir50 fine filter creates good room air quality based on good air resistance coupled with a low pressure drop. Used as prefilter the filter improves the protection of downstream filter stages.

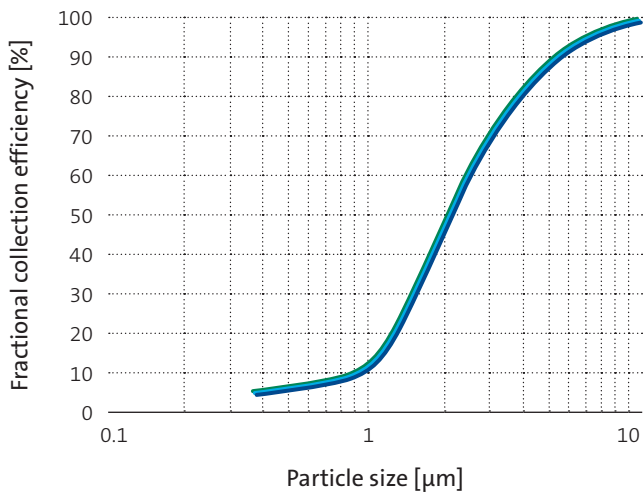
## The special features and benefits

- Very good filtration characteristics thanks to progressively structured filter media made of synthetic-organic fibers.
- Filter pockets foamed into the PU front frame, and welded in a leak-proof configuration.
- Pocket forming through integrated welded seams.
- WinAir50 pocket filters are **microbiologically inactive** and meet all hygiene requirements of the German VDI Guideline 6022 "Hygiene requirements for HVAC systems and units".
- Free of glass fibers, non-corroding, moisture-resistant up to 100% relative humidity, self-extinguishing under DIN 53438 (Fire class F1).
- Simple and secure installation, suitable for all commonly used mounting frames.

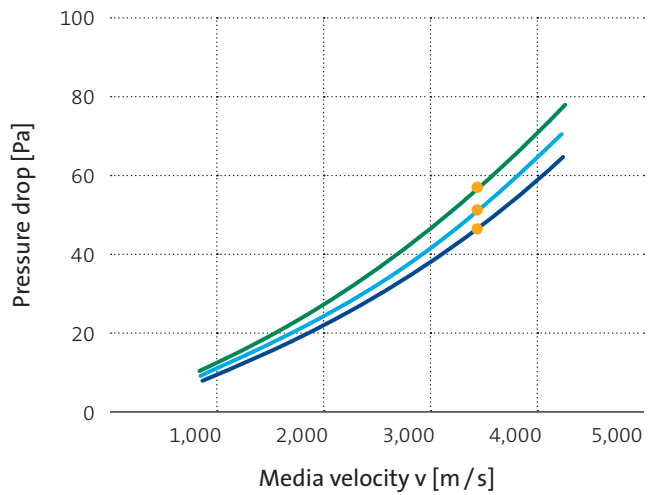
GEOMETRIES AVAILABLE		WinAir 50 1/1 5L   5M   5S	WinAir 50 5/6 4L   4M   4S	WinAir 50 1/2 3L   3M   3S	WinAir 50 1/4 4L   4M   4S
Nominal volume flow rate	m <sup>3</sup> /h	3,400	2,700	2,000	1,200
Front frame	mm	592 × 592	492 × 592	289 × 592	289 × 289
Overall depth	mm	625   510   330	625   510   330	625   510   330	650   510   330
Number of pockets		5	4	3	4
Effective filtering area	m <sup>2</sup>	3.8   3.1   2.0	3.1   2.5   1.6	2.3   1.9   1.2	1.4   1.1   0.7
Weight, approx.	kg	1.5   1.3   1.0	1.3   1.2   1.0	1.0   0.9   0.8	0.7   0.6   0.6
Thermal stability	°C	70			
Moisture-resistance (rel. hum.)	%	100			
Suitable for standard mounting frame	mm	610 × 610	508 × 610	305 × 610	305 × 305

# TECHNICAL FILTER TEST DATA TO EN 779 AND ISO 16890

Fractional collection efficiency curves



Initial pressure drop curves



— WinAir 50 1/1 5L    — WinAir 50 1/1 5M    — WinAir 50 1/1 5S    ● Nominal volume flow rate

KEY DATA		WinAir 50 1/1 5L	WinAir 50 1/1 5M	WinAir 50 1/1 5S
Nominal volume flow rate	● m <sup>3</sup> /h		3,400	
Face velocity	m/s		2.5	
Initial pressure drop	Pa	45	50	55
Class to ISO 16890		ISO ePM10 55%		
<b>Particulate matter efficiency</b>				
ISO ePM1		7	6	5
ISO ePM2,5	%	15	14	12
ISO ePM10		56	58	59
Filter class to EN 779:2012		M5		
Recom. final pressure drop*	Pa	450		

\* 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.

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.