

WINAIR 90 POCKET FILTER



THE ECONOMICAL SOLUTION
FOR A GOOD CLEAN AIR QUALITY

FILTER TYPE	FILTER CLASS TO ISO 16890	FILTER CLASS TO EN 779:2012	FILTER CLASS TO EN 779:2002
WinAir 90	ISO ePM10 85%	M6	F7



The application

The WinAir 90 fine filter creates good clean air quality based on good air resistance coupled with a low pressure drop.

Used as prefilters, they protect the downstream filter stages.

Their characteristics and benefits

- Good filtration characteristics thanks to progressively structured filter media made of synthetic-organic fibers and micro-fibers.
- Filter pockets foamed into the PU front frame, and welded in a leak-proof configuration.
- WinAir 90 pocket filters are microbiologically inactive and meet all hygiene requirements of the German VDI Guideline 6022 "Hygiene requirements for HVAC systems and units".
- Pocket forming through integrated welded seams.
- 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 90 1/1 8L 8M	WinAir 90 5/6 6L 6M	WinAir 90 1/2 4L 4M	WinAir 90 1/4 4L 4M
Nominal volume flow rate	m³/h	3,400	2,550	1,700	800
Front frame	mm	592 × 592	492 × 592	289 × 592	289 × 289
Overall depth	mm	625 510	625 510	625 510	650 510
Number of pockets		8	6	4	4
Effective filtering area	m²	6.0 4.9	4.5 3.7	3.0 2.5	1.4 1.2
Weight, approx.	kg	2.0 1.8	1.5 1.3	1.0 0.9	0.5 0.5
Thermal stability	°C	7)			
Moisture-resistance (rel. hum.)	%	100			
Suitable for standard mounting frame	mm	610 × 610	508 × 610	305 × 610	305 × 305

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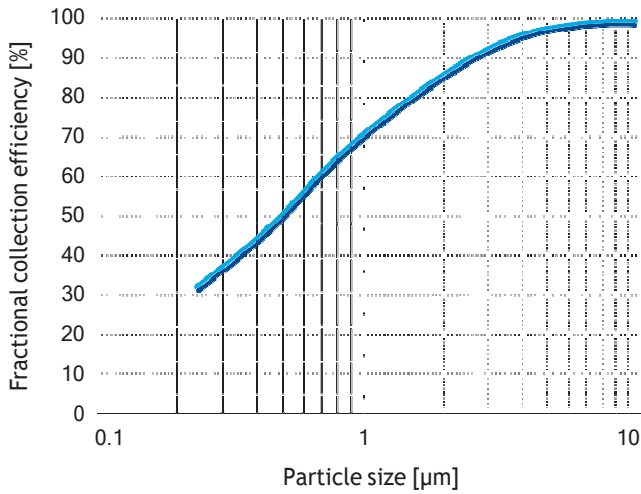
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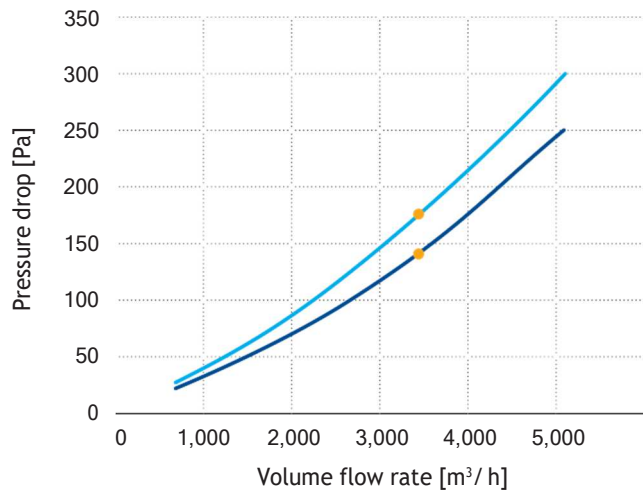
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AIR AND WATER TECHNOLOGIES

TECHNICAL FILTER TEST DATA TO EN 779 AND ISO 16890

Fractional collection efficiency curves



Initial pressure drop curves



— WinAir90 1/1 8L — WinAir90 1/1 8M ● Nominal volume flow rate

KEY DATA		WinAir 90 1/1 8L	WinAir 90 1/1 8M
Nominal volume flow rate	● m ³ /h	3,400	
Face velocity	m/s	2.7	
Initial pressure drop	Pa	125	140
Class to ISO 16890		ISO ePM10 85%	
Particulate matter efficiency			
ISO ePM1		52	51
ISO ePM2,5	%	66	65
ISO ePM10		88	87
Filter class to EN 779:2012		M6	
Filter class to EN 779:2002		F7	
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 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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