M5/6 F7/9 PM 2.5 PM 1 Optional FDA KONFORM

Compact Filter – HS-Makro F

This durable fine dust filter is suitable as pre- or main-filtration element in systems where relatively high amounts of volumes as well as variable airflows is typical. Areas of use include pre-filtration of airborne particles, as filter for industrial processing, or in hospitals, computing centres, offshore or power generating systems.

The filtermedia by standard is high quality glass fibre paper. A temporary rise of the pressure drop with high moisture levels is normal. This filtertype might optionally be fitted with special heat resistant thermoplastic spacers for temperature ranges of up to 120°C. Such filters are marked with the model name HS-Makro F-T.

Due to our flexible manufacturing process we can fit the filter into mounting frames by all major brands. We also deliver matching duct cases and assembly systems.

Type:	HS-Makro 65 F	HS-Makro 85 F	HS-Makro 95 F
Class EN 779	M6	F7	F9
Class ISO 16890	ISO ePM2.5 55%	ISO ePM1 65%	ISO ePM1 80%
Initial-ΔP [Pa] at nominal flow	110	140	180
Max. Temperature [°C]	65° / opt. 120°	65° / opt. 120°	65° / opt. 120°

Dimensions [mm]			Nominal air flow [m³/h]		Weight
Width	Height	Depth	standard	opt. high air flow	[kg]
305	305	78	670	-	1,5 kg
305	610	78	1500	-	2,5 kg
457	457	78	1640	-	2,5 kg
575	575	78	2670	-	3,4 kg
610	610	78	3000	-	6,0 kg
762	610	78	3750	-	7,2 kg
305	305	150	670	890	3,4 kg
305	610	150	1500	1910	5,2 kg
457	457	150	1640	2200	5,6 kg
575	575	150	2670	3600	7,6 kg
610	610	150	3000	4090	8,1 kg
762	610	150	3750	5170	9,6 kg
915	610	150	4640	6260	11,0 kg
1220	610	150	-	8310	14,0 kg
1525	610	150	-	10480	16,9 kg
1830	610	150	-	12530	21,0 kg
305	305	292	1030	1400	6,3 kg
305	610	292	2200	2900	8,9 kg
457	457	292	2530	3300	10,4 kg
575	575	292	4160	5400	13,6 kg
610	610	292	4720	6200	14,4 kg
762	610	292	5970	7700	16,0 kg

Please ask for other desired dimensions and designs.

High air flow rate option

Filters with this option offer more than +30 % filtersurface than equivalent standard variants and thus offer following benefits:

- compareable higher nominal air flow of +30%

or

- compareable lower pressure loss of - 30%
- increased service lifetime of up to +60 %

documents might be subject to change / issue Feb. 2023

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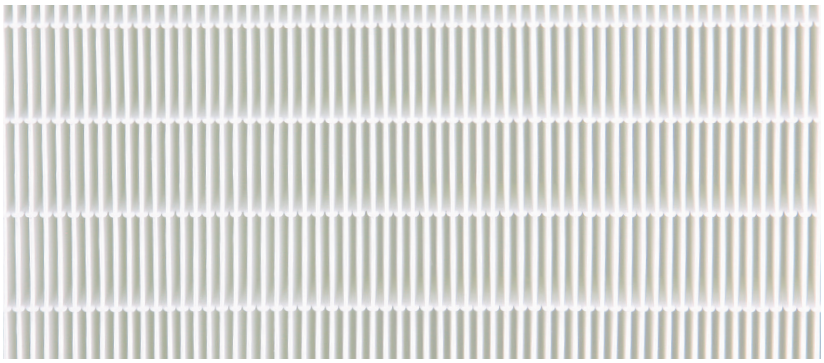
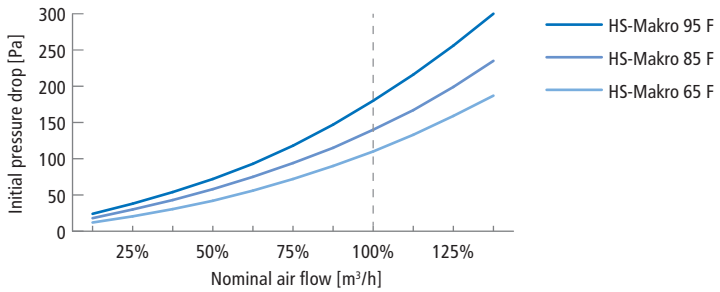
Compact Filter – HS-Makro F

Optional FDA KONFORM | PM 2.5 | PM 1 | M5 6 | F7 9



Designing HEPA filter and fine dust filters large flows, high dustloads loads or to perform with the best energy efficiency requires an uncompromising quality of the pleat geometry. Finedust, EPA, HEPA and ULPA Filter made by HS-Luftfilterbau always offer optimal filtersurface usage thanks to our technically advanced production methods, allowing perfectly straight folds up to 250 mm fold depths.



Frame	▪ MDF / medium density fibre board (standard) ▪ polystyrene (depth= 78, 150 and 292 mm) ▪ ABS (depth= 78, 150 and 292 mm, 120°C) ▪ galv. steel or stainless ▪ aluminium
Operational conditions	▪ max. rel. h. 100 [%] ▪ max. temp. 65 [°C] (standard) optional: HS-Makro F-T max. 120°C
Spacers	thermoplastic (Minipleat)
Filtermedia	high quality glass fibre paper (water resistant)
Combustible	Yes (frame: MDF, plywood, polystyrene, ABS)
Options	▪ burst- and protection screens (single or both sides) [affects ΔP] ▪ more filtermedia for higher airflows ▪ handle ▪ gasket on both sides ▪ customized gaskets (epdm, viton, ptfe or other customer specific) ▪ FDA compliant design ▪ Spechial design customizations i.e.: grooves, guide rails, boxed versions etc.

Gasket options	height [mm]	form
seamless foamed polyurethane gasket (standard)	6 or 8	
flat sectionized neoprene gasket	6 or 8	
leak test gasket	7,5	

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