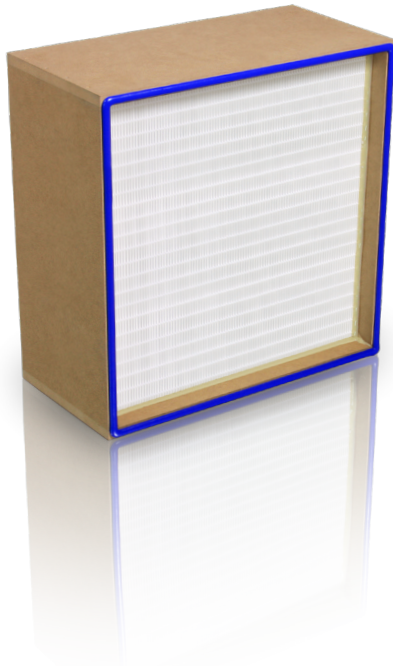


EPA / HEPA Filter – HS-Mikro SF



HS-Mikro SF is the filter of choice for removal of particulate air impurities and can be titled a true “workhorse” absolute filter. HS-Mikro SF are used in versatile applications such as sterile- and clean rooms as well as in processes within industrial and technical environments. They securely filter suspended matter such as viruses, germs, toxic dusts, etc. Typical fields of application are among others within medical areas that are rated DIN 1946, within operating rooms, intensive care, laboratories as well as precision engineering or oil fog and smoke filtration. Due to their pleated design and thermoplastic separators, the filter have an effectively larger filtration surface than HEPA-Filter with aluminium spacers. They can be manufactured completely metal-free and thus are completely combustible to ease problematic filtrate disposal. The filter can be installed for supply air purification as well as for exhaust air filtration. Numerous options allow the filter to be adapted to suit the special requirements of diverse processes and operating environments. This filter type might optionally be fitted with special heat resistant thermoplastic spacers for temperature ranges of up to 120°C. Such filters have marked with the model name HS-Mikro SF-T.

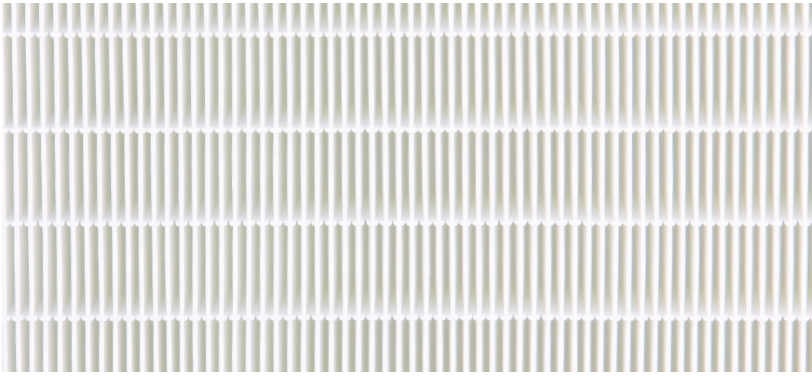
Type:	HS-Mikro RF	HS-Mikro SF	
Class EN 1822	E11	H13	H14
Efficiency EN 1822 @ MPPS [%]	> 95 %	> 99,95 %	> 99,995 %
Initial-ΔP [Pa] at nominal air flow	125 (>175)	250 (>270)	260 (>290)
Max. temp. [°C]	65° / opt.120°	65° / opt.120°	65° / opt.120°

Width	Dimensions [mm]		Depth	Nominal air flow [m³/h]		
	Height			standard	opt. high flow	(Extreme)
305	305		78	250	-	-
305	610		78	540	-	-
457	457		78	600	-	-
575	575		78	970	-	-
610	610		78	1100	-	-
762	610		78	1400	-	-
305	305	150		250	330	-
305	610	150		540	700	-
457	457	150		600	810	-
575	575	150		970	1330	-
610	610	150		1150	1500	-
762	610	150		1450	1900	-
915	610	150		1750	2300	-
1220	610	150		2300	3100	-
1525	610	150		2900	3850	-
1830	610	150		3500	4650	-
305	305	292		520	750	850 ⁽¹⁾
305	610	292		1050	1500	2000 ⁽¹⁾
457	457	292		1180	1700	1950
575	575	292		1970	2500	2800
610	610	292		2100	3000	3400
762	610	292		2630	3500	3900

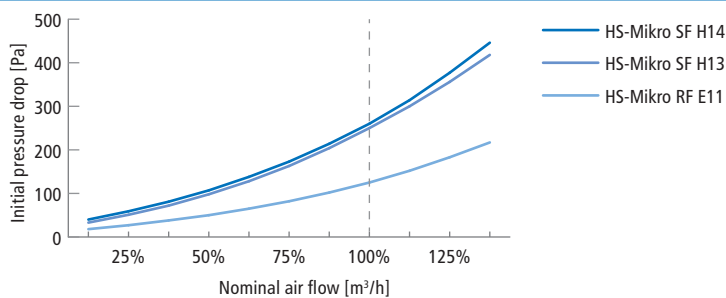
Please ask for other desired dimensions and designs.
 (1) with ePTFE membrane media only, max temp 65°C

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 %



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	<ul style="list-style-type: none"> ▪ MDF / medium density fibre board (standard) ▪ polystyrene (depth= 78, 150 and 292 mm, 65°C) ▪ ABS (depth= 78, 150 and 292 mm, 120°C) ▪ plywood ▪ galvanized steel or stainless ▪ aluminium
Operational conditions	<ul style="list-style-type: none"> ▪ max rel. h. 100 [%] ▪ max. temp. 65 [°C] ▪ optional: HS-Mikro SF-T up to max. 120 [°C] with glassfibre media only
Spacers	thermoplastic (Minipleat)
Filtermedia	<ul style="list-style-type: none"> ▪ high quality glass fibre (standard): moisture resistant ▪ ePTFE (optional): 100% boron free, reduced Initial-ΔP: -45 %, water resistant, resistant against disinfectant, highly mechanical & chemical resistance
Combustible	Yes (frames: MDF, plywood, polystyrene, ABS)
Options	<ul style="list-style-type: none"> ▪ burst- and protection screens (single or both sides) [affects ΔP] ▪ more filtermedia for higher airflows ▪ handle ▪ gasket on both sides ▪ customized gaskets (epdm, viton, ptfе or other customer specific) ▪ Special 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	