

## EPA / HEPA Filter – Mikro SF



Mikro SF is the filter of choice for removal of particulate air impurities and can be titled as a true “workhorse” absolute filter. Mikro SF are used in versatile applications such as sterile- and clean rooms as well as in processes within industrial and technical environments. They safely 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 filters with aluminium spacers. They can be manufactured completely free of metal and thus are completely combustible to ease problematic filter disposal. The filters can be installed for air purification supply 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 are referred to with the product name Mikro SF-T.

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

Dimensions [mm]			Nominal air flow [m³/h]		Weight [kg]
Width	Height	Depth	standard	opt. high flow	
305	305	78	250	-	1,5 kg
305	610	78	540	-	2,5 kg
457	457	78	600	-	2,5 kg
575	575	78	970	-	3,4 kg
610	610	78	1100	-	6,0 kg
762	610	78	1400	-	7,2 kg
305	305	150	250	330	3,4 kg
305	610	150	540	700	5,2 kg
457	457	150	600	810	5,6 kg
575	575	150	970	1330	7,6 kg
610	610	150	1150	1500	8,1 kg
762	610	150	1450	1900	9,6 kg
915	610	150	1750	2300	11,0 kg
1220	610	150	2300	3100	14,0 kg
1525	610	150	2900	3850	16,9 kg
1830	610	150	3500	4650	21,0 kg
305	305	292	520	750*	6,3 kg
305	610	292	1050	1500*	8,9 kg
457	457	292	1180	1700*	10,4 kg
575	575	292	1970	2500*	13,6 kg
610	610	292	2100	3000*	14,4 kg
762	610	292	2630	3500*	16,0 kg

Please ask for other desired dimensions and designs.

\* Option „high flow rate“ at depth 292 mm: can only be temperature resistant up to 65° C.

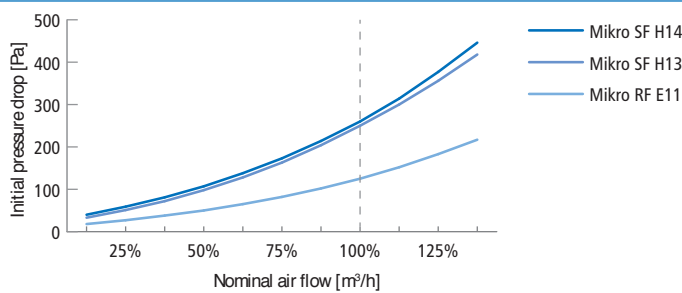
### High air flow rate option

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

- comparable higher nominal air flow of +30%  
or
- comparable lower pressure loss of - 30%
- increased service lifetime of up to +60 %



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



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

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	