



LH - KH

SIGMA high efficiency filters

Product	LH	KH
UNI EN 779 class	F 8	F 8
EUROVENT class	EU 8	EU 8
Em ASHRAE 52.1.1992	90 / 95 %	90 / 95 %
Final pressure drop	450 Pa	450 Pa
Maximum operating temperature	90 °C	100 °C
Maximum relative humidity	90 %	100 %

High efficiency SIGMA series LF –KF filters have high filtration efficiency rates. This means these filters are able to meet the strictest air cleanliness requirements and can be used in heavy duty conditioning and ventilation systems. The filter media is made of deep pleated glass micro-fiber paper fitted with corrugated aluminium spacers. The frame is constructed of two different materials according to the models: MDF wood for LF filters and galvanized steel sheet for KF filters. The filter medium is fixed to the frame with a polyurethane sealant, the frame is fitted with a single piece gasket. LF –KF high efficiency

filters have a low pressure drop level, a high dust holding capacity and offer considerable mechanical resistance. They come in various sizes to suit a wide range of air flow rates.

Applications High efficiency SIGMA series LF –KF are used in conditioning and ventilation units which require high air cleanliness levels. They can be installed in air treatment plants, ventilation units, independent roof top conditioning systems, with proper pre-filters to prevent the rapid clogging of the media. They can also be used in processing plants and

industries to assure product quality: food, photography, precision mechanical, mass distribution electronic industries, etc.

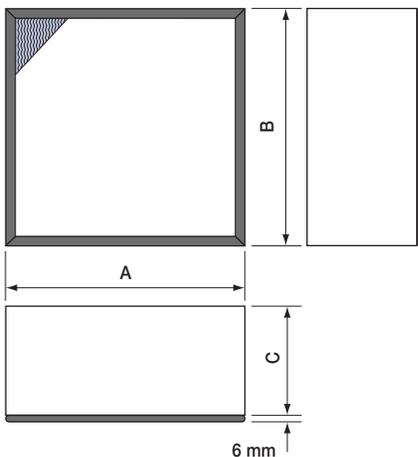
Installation LF –KF filters are installed in duct housings Multimod model, Modulo or in safety housings Canister type; for normal operating conditions use CT 50 counter-frames. The filters can be installed in vertical positions, for horizontal air flows, with vertical pleats, or in horizontal position for vertical air flows from top to bottom. The flanged version (...F) can be installed in CT 20 – CT 10 counter-frames.

Type	Sizes (mm)			Nominal air flow rate Q.		Filtering surface m ²	Initial pressure drop Pa
	A	B	C	m ³ /h	m ³ /sx10 ^{-3*}		
LH - KH							
3	305	x 305	x 149	500	139	2	120
42	305	x 610	x 149	1000	278	3	120
4	610	x 610	x 149	2000	555	6	120
31	305	x 305	x 292	850	236	3	120
52	305	x 610	x 292	1700	472	7	120
5	610	x 610	x 292	3400	944	14	120
6	610	x 762	x 292	4300	1194	17	120
55 F	289	x 595	x 292	1600	444	6	120
54 F	595	x 595	x 292	3200	889	13	120

*1 m³/s x 10⁻³ = 1 l/s

F: inlet air side flange

Size



Typical curves

