

SIGMA series - Filters for fine particulate with deep pleats for ducted airflow

KG / KF / KH

Characteristics	KG	KF	KH
EN ISO 16890-1:2016 Classification	ePM _{2.5} 55%	ePM ₁ 55%	ePM ₁ 85%
EN 779:2012 Classification	M6	F7	F9
Energy Class EUROVENT 4/21-2019	E	E	E
Final differential pressure EN ISO 16890:2016	300 Pa	300 Pa	300 Pa
Final differential pressure EN 13053-7:2019	The lower value between the initial differential pressure plus 100 Pa, or three times the initial value		
Maximum differential pressure	450 Pa	450 Pa	450 Pa
Maximum operating temperature	100°C	100°C	100°C
Maximum relative humidity	100%	100%	100%



Deep-pleat filters, available in a wide range of efficiencies, used in filtration stages for ventilation systems serving critical or contamination-controlled environments. They are available in two different depths for utmost flexibility and compatibility for installation. The frame, made entirely of galvanised steel, gives the structure considerable mechanical strength. The aluminium separators with constant pleating allow these filters to operate continuously in air temperatures up to 100°C.

MATERIALS AND FINISH

- Galvanised steel frame.
- Fire retardant glass microfibre filter media.
- Glass-fibre sealant.
- Aluminium separators.
- Flat EPDM gasket that can be applied during installation either on the air inlet side or on the outlet side.
- Aluminium protection grid on the air inlet side.

APPLICATION

Inside air handling unit filtration sections.
CT model counterframe (see page 103),
In housing systems for air extraction from contaminated environments - Canister System (see page 99).
In MULTIMOD model duct housings (see page 96).
In MODULO model duct housings (see page 98).

VERSIONS

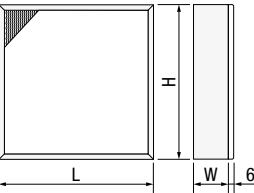
- L MDF multilayer wood frame, temperature up to 70°C, without grids
- S AISI 304 stainless steel frame and grid
- ATEX
 - II 2G Ex h IIC T6 Gb
 - II 2D Ex h IIIC T85°C Db
 - with aluminium protection grids
- F single flange. Only for models 54 - 55
- FF double flange. Only for models 54 - 55
- HT120 high temperature up to a continuous 120°C
- HT250 high temperature up to a continuous 250°C.

ACCESSORIES

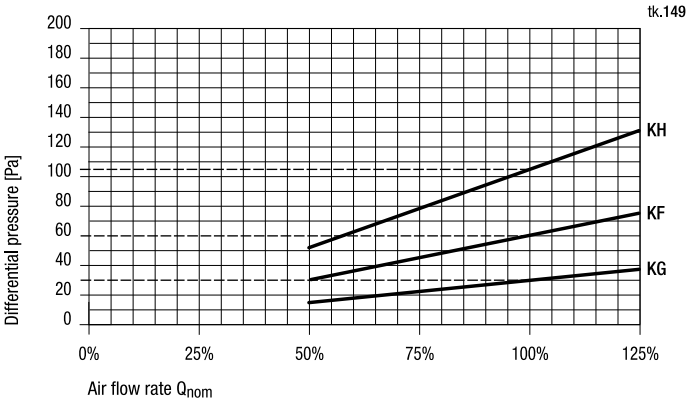
DG seamless, two-component, double polyurethane gasket.
RRA aluminum grids.

Code	Dimensions [mm]			Airflow rate Q nominal			Filtering surface [m ²]	Initial differential pressure [Pa]			KG	KF	KH
	L	H	W	[m ³ /h]	[m ³ /s]	[cfm]		KG	KF	KH	€	€	€
3	305	305	149	500	0,139	294	2	30	60	105	◇	◇	
42	305	610	149	1000	0,278	589	3	30	60	105	◇	◇	
4	610	610	149	2000	0,555	1177	6	30	60	105	◇	◇	

◇ PRICES ON REQUEST



At the design stage, recommended sizing is 80% of the rated flow rate.

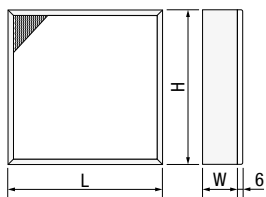


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	L	H	W	[m ³ /h]	[m ³ /s]	[cfm]		KG	KF	KH	€	€	€
31	305	305	292	750	0,208	440	3,5	80	90	120	◇	◇	
52	305	610	292	1500	0,417	885	7	80	90	120	◇	◇	
5	610	610	292	3000	0,833	1765	14	80	90	120	◇	◇	
6	610	762	292	3875	1,076	2280	18	80	90	120	◇	◇	
55 F	287	592	292	1275	0,354	750	6	80	90	120	◇	◇	
54 F	592	592	292	2800	0,778	1650	13	80	90	120	◇	◇	

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