

SIGMA series - Filters for fine particulate with mini-pleat for ducted airflow

KMG / KMF / KML / KMH

Characteristics	KMG	KMF	KML	KMH
EN 779:2012 Classification	M6	F7	F8	F9
Final differential pressure EN ISO 16890:2016	300 Pa	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	450 Pa
Maximum operating temperature	70°C	70°C	70°C	70°C
Maximum relative humidity	90%	90%	90%	90%



Mini-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.

MATERIALS AND FINISH

- Galvanised steel frame.
- Fire retardant glass microfibre filter media, ample surface area (mini-pleat).
- Polyurethane-based sealant.
- Continuous thermoplastic separators.
- Two-component, seamless polyurethane gasket.
- 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

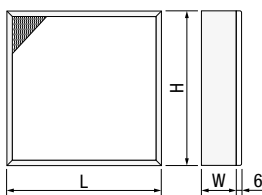
- L MDF multilayer wood frame without grids
- S AISI 304 stainless steel frame and grid
- ATEX
 - II 2G Ex h IIC T6 Gb
 - II 2D Ex h IIIC T85°C Db
 - with aluminium protection grids

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]				KMG	KMF	KML	KMH
	L	H	W	[m ³ /h]	[m ³ /s]	[cfm]		KMG	KMF	KML	KMH	€	€	€	€
3	305	305	149	450	0,125	265	2	125	135	145	150				
42	305	610	149	900	0,250	530	3	125	135	145	150				
4	610	610	149	1800	0,500	1059	6	125	135	145	150				
3X	305	305	149	540	0,150	318	3	125	135	145	150				
42X	305	610	149	1050	0,291	618	7	125	135	145	150				
4X	610	610	149	2150	0,597	1265	14	125	135	145	150				
31	305	305	292	540	0,150	318	3	125	135	145	150				
52	305	610	292	1050	0,291	618	7	125	135	145	150				
5	610	610	292	2150	0,597	1265	14	125	135	145	150				
6	610	762	292	2700	0,750	1589	17	125	135	145	150				



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

