

LMF - KMF

SIGMA high efficiency filters

| Product | LMF | KMF |
|-------------------------------|---------|---------|
| UNI EN 779 class | F 7 | F 7 |
| EUROVENT class | EU 7 | EU 7 |
| Em ASHRAE 52.1.1992 | 80/85 % | 80/85 % |
| Final pressure drop | 450 Pa | 450 Pa |
| Maximum operating temperature | 70 °C | 70 °C |
| Maximum relative humidity | 90 % | 100 % |

The new series of LMF-KMF SIGMA high efficiency filters are an evolution compared to the previous deep pleated series. Thanks to their high filtration efficiency level, these filters meet the strict requirements of air cleanness and are suitable for use in conditioning and ventilation systems.

The filtering medium is made of a micro-fiber glass sheet, with mini pleats with continuous thermo-plastic separators. The case construction is made of two different materials according to the model: MDF panels for the LMF filters and galvanized sheet steel for the KMF filters. The filtering medium is bonded to

the frame with a polyurethane glue. The frame has a single-piece gasket. The LMF-KMF high efficiency filters have a low pressure drop, a high dust holding capacity and ensure a fairly good mechanical resistance. They come in various sizes in order to meet all installation requirements.

Applications LMF-KMF SIGMA high efficiency filters are installed in the conditioning and ventilation systems which require high air cleanness levels. They can be used in air treatment plants, in independent roof top ventilation and conditioning units, with

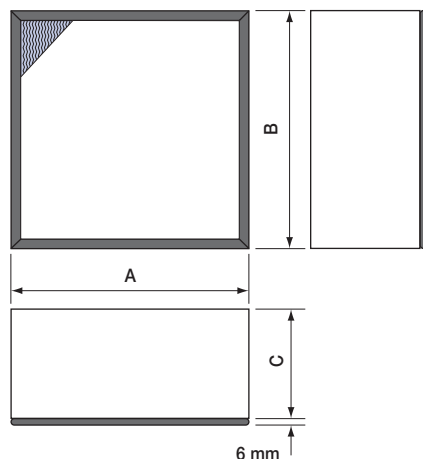
the appropriate pre-filters to prevent the quick clogging of the medium. They can also be used in processing plants and industries, to ensure the quality of the product, food, photography, mechanics, consumer electronics industries, etc.

Installation The LMF-KMF filters are installed in Multimod, Modulo duct containers or Canister safety containers. CT 50 counter-frames are used for standard installations. The filters can be installed vertically, for horizontal air flows, with vertical pleats, or horizontally for vertical air flows from top to bottom.

| Type | Sizes (mm) | | | Nominal air flow rate Q. | | Filtering surface | Initial pressure drop |
|-----------|------------|-------|-------|--------------------------|-------------------------|-------------------|-----------------------|
| LMF - KMF | A | B | C | m³/h | m³/sx10 ⁻³ * | m² | Pa |
| 3 | 305 | x 305 | x 149 | 500 | 139 | 2 | 130 |
| 42 | 305 | x 610 | x 149 | 1000 | 278 | 3 | 130 |
| 4 | 610 | x 610 | x 149 | 2000 | 555 | 6 | 130 |
| 31 | 305 | x 305 | x 292 | 850 | 236 | 3 | 130 |
| 52 | 305 | x 610 | x 292 | 1700 | 472 | 7 | 130 |
| 5 | 610 | x 610 | x 292 | 3400 | 944 | 14 | 130 |
| 6 | 610 | x 762 | x 292 | 4300 | 1194 | 17 | 130 |

*1 m³/s x 10⁻³ = 1 l/s

Size



Typical curves

