

## LG - KG

### SIGMA high efficiency filters

| Product                       | LG      | KG      |
|-------------------------------|---------|---------|
| UNI EN 779 class              | F 6     | F 6     |
| EUROVENT class                | EU 6    | EU 6    |
| Em ASHRAE 52.1.1992           | 60/65 % | 60/65 % |
| Final pressure drop           | 450 Pa  | 450 Pa  |
| Maximum operating temperature | 90 °C   | 100 °C  |
| Maximum relative humidity     | 90 %    | 100 %   |

High efficiency SIGMA series LG –KG 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 LG filters and galvanized steel sheet for KG filters. The filter medium is fixed to the frame with a polyurethane sealant (LG) and with glass fiber interposition (KG), the frame is fitted with a

single piece gasket. LG –KG 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 LG –KG 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

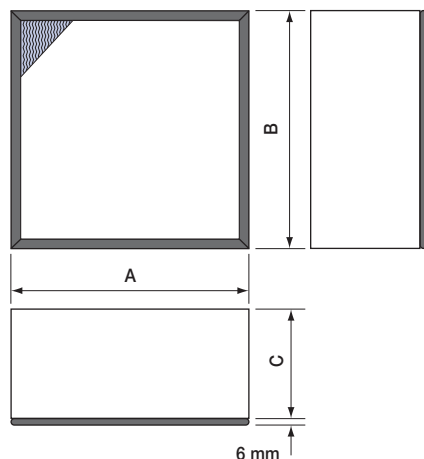
plants and industries to assure product quality: food, photography, precision mechanical, mass distribution electronic industries, etc.

**Installation** LG –KG 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 | Initial pressure drop |
|---------|------------|-------|-------|--------------------------|-------------------------|-------------------|-----------------------|
| LG - KG | A          | B     | C     | m³/h                     | m³/sx10 <sup>-3</sup> * | m²                | Pa                    |
| 3       | 305        | x 305 | x 149 | 500                      | 139                     | 2                 | 90                    |
| 42      | 305        | x 610 | x 149 | 1000                     | 278                     | 3                 | 90                    |
| 4       | 610        | x 610 | x 149 | 2000                     | 555                     | 6                 | 90                    |
| 31      | 305        | x 305 | x 292 | 850                      | 236                     | 3                 | 90                    |
| 52      | 305        | x 610 | x 292 | 1700                     | 472                     | 7                 | 90                    |
| 5       | 610        | x 610 | x 292 | 3400                     | 944                     | 14                | 90                    |
| 6       | 610        | x 762 | x 292 | 4300                     | 1194                    | 17                | 90                    |
| 55 F    | 289        | x 595 | x 292 | 1600                     | 444                     | 6                 | 90                    |
| 54 F    | 595        | x 595 | x 292 | 3200                     | 889                     | 13                | 90                    |

\*1 m³/s x 10<sup>-3</sup> = 1 l/s

### Size



### Typical curves

