

SIGMA series - Fine particulate filters, panel-mounted

AF / AL / AH

| Characteristics                               | AF                                                                                                      | AL     | AH     |
|-----------------------------------------------|---------------------------------------------------------------------------------------------------------|--------|--------|
| EN 779:2012 Classification                    | F7                                                                                                      | F8     | F9     |
| 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 final differential pressure           | 600 Pa                                                                                                  | 600 Pa | 600 Pa |
| Maximum operating temperature                 | 70°C                                                                                                    | 70°C   | 70°C   |
| Maximum relative humidity                     | 90%                                                                                                     | 90%    | 90%    |



Fine particulate filters suitable for unidirectional and turbulent flows, return grids from controlled contamination environments.  
These filters' typical compact design simplifies maintenance procedures.

MATERIALS AND FINISH

- Anodised aluminium frame.
- Fire retardant glass microfibre filter media.
- Protection grids in anodised aluminium with epoxy paint finish.
- Continuous thermoplastic separators.
- Two-component polyurethane sealant.
- Two-component, seamless polyurethane gasket.

APPLICATION

DEC-A - DEC-S intake grilles in controlled contamination environments (see page 93).

VERSIONS

- ATEX
  - II 2G Ex h IIC T6 Gb
  - II 2D Ex h IIIC T85°C Db
  - with AISI 304 stainless steel protection grids
- ALPHA for the food industry (refer to the dedicated catalogue).

ACCESSORIES

DG seamless, two-component, double polyurethane gasket.  
RRS AISI 304 stainless steel protection grids.

| Code | Dimensions [mm] |      |    | Airflow rate Q nominal |        |       | Filtering surface [m²] | Initial differential pressure [Pa] |    |    | AF | AL | AH |
|------|-----------------|------|----|------------------------|--------|-------|------------------------|------------------------------------|----|----|----|----|----|
|      | L               | H    | W  | [m³/h]                 | [m³/s] | [cfm] |                        | AF                                 | AL | AH | €  | €  | €  |
| 3    | 305             | 305  | 68 | 150                    | 0,042  | 88    | 2,5                    | 45                                 | 50 | 55 | ◇  | ◇  |    |
| 42   | 305             | 610  | 68 | 300                    | 0,084  | 177   | 5                      | 45                                 | 50 | 55 | ◇  | ◇  |    |
| 4    | 610             | 610  | 68 | 600                    | 0,167  | 353   | 10                     | 45                                 | 50 | 55 | ◇  | ◇  |    |
| 7    | 610             | 762  | 68 | 750                    | 0,209  | 441   | 12                     | 45                                 | 50 | 55 | ◇  | ◇  |    |
| 8    | 610             | 915  | 68 | 900                    | 0,250  | 530   | 14                     | 45                                 | 50 | 55 | ◇  | ◇  |    |
| 9    | 610             | 1219 | 68 | 1200                   | 0,333  | 706   | 20                     | 45                                 | 50 | 55 | ◇  | ◇  |    |

◇ PRICES ON REQUEST

