

PFC - PFE - PFS - PFH

GAMMA series flat synthetic filter screens

| Product | PFC * | PFE | PFS | PFH |
|-------------------------------|--------|--------|--------|--------|
| UNI EN 779 class | G 2 | G 3 | G 4 | G 4 |
| EUROVENT class | EU 2 | EU 3 | EU 4 | EU 4 |
| Am ASHRAE 52.1.1992 | 75 % | 83 % | 91 % | 95 % |
| Suggested final pressure drop | 200 Pa | 200 Pa | 200 Pa | 200 Pa |
| Maximum pressure drop | 250 Pa | 250 Pa | 250 Pa | 250 Pa |
| Maximum operating temperature | 90 °C | 90 °C | 90 °C | 90 °C |
| Flat Filter media | SF 100 | SF 200 | SF 270 | SF 450 |

* Upon request it is possible to have the version with soft or stiff polyuretan

PFC – PFE – PFS – PFH filter screens have medium-high arrestance values, hence they are suitable for coarse dust particle filtration, dirt and other substances in civil and industrial facilities, as well as the substances carried by outdoor air. These filters have a high dust holding capacity and robust construction thanks to their galvanized steel frame that can be opened, fitted with electrically welded galvanized steel protection grids on both sides. The filter medium is made of self-extinguishing synthetic fiber. Thickness varies according to the different models. Initial pressure drop levels are limited for all types of filters. This

assures a long operative life for the filter and a low fan motor energy consumption levels.

Applications PFC – PFE – PFS – PFH filter screens offer a wide range of uses:

- unit heaters, hot air generators, fan convectors
- independent roof top conditioners, as first filtration stage upstream of high efficiency filters
- air treatment plants as first filtration stage upstream of high efficiency or activated carbon filters
- fan units for civil and industrial systems

Installation

These filters can be installed both vertically and horizontally. They can be installed in three different ways:

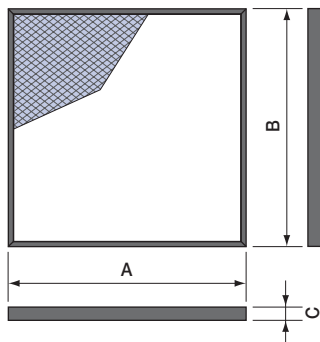
- flat, perpendicular to the air flow, for low face speeds, up to 1.5 m/s, in C-shaped guides
- V-position, for face air speeds up to 2.5 – 3 m/s in proper counter-frames (CT 10, 20, 30 mod.)
- in holding ducts (mod. Multimod)

These filters can be installed so as to allow for their removal for periodical cleaning operations.

| Type | Sizes (mm) | | | | | Nominal air flow rate Q. | | Filter. surface m ² | Initial pressure drop | | |
|-----------|------------|---|-----|---|----|--------------------------|-------------------------------------|--------------------------------------|-----------------------|-----------|-----|
| | A | | B | | C | m ³ /h | m ³ /sx10 ^{-3*} | | PFE | Pa PFS | PFH |
| E / S / H | 287 | x | 592 | x | 23 | 850 | 236 | 0,17 | 25 | 40 | 60 |
| E / S / H | 400 | x | 500 | x | 23 | 1000 | 278 | 0,2 | 25 | 40 | 60 |
| E / S / H | 400 | x | 625 | x | 23 | 1250 | 347 | 0,25 | 25 | 40 | 60 |
| E / S / H | 500 | x | 500 | x | 23 | 1250 | 347 | 0,25 | 25 | 40 | 60 |
| E / S / H | 500 | x | 625 | x | 23 | 1570 | 436 | 0,31 | 25 | 40 | 60 |
| E / S / H | 592 | x | 592 | x | 23 | 1800 | 500 | 0,35 | 25 | 40 | 60 |
| E / S / H | 287 | x | 592 | x | 48 | 850 | 236 | 0,17 | 40 | 65 | 90 |
| E / S / H | 400 | x | 500 | x | 48 | 1000 | 278 | 0,2 | 40 | 65 | 90 |
| E / S / H | 400 | x | 625 | x | 48 | 1250 | 347 | 0,25 | 40 | 65 | 90 |
| E / S / H | 500 | x | 500 | x | 48 | 1250 | 347 | 0,25 | 40 | 65 | 90 |
| E / S / H | 500 | x | 625 | x | 48 | 1570 | 436 | 0,31 | 40 | 65 | 90 |
| E / S / H | 592 | x | 592 | x | 48 | 1800 | 500 | 0,35 | 40 | 65 | 90 |

*1 m³/s x 10⁻³ = 1 l/s

Size



Typical curves

PFE
PFS
PFH
23 mm thickness

