

GAMMA series, flat synthetic filter panels

TPFC - TPFE - TPFS - TPFH

Product	TPFC	TPFE	TPFS	TPFH
UNI EN 779 class	G 2	G 3	G 4	G 4
EUROVENT class	EU 2	EU 3	EU 4	EU 4
Am ASHRAE52.1.1992	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
Mesh protection grids	12x24 mm	12x24 mm	12x12 mm	12x12 mm

TPFC - TPFE - TPFS - 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

- TPFC - TPFE - TPFS - TPFH 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

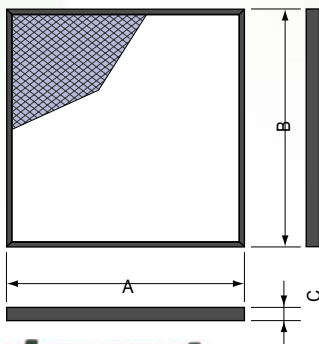
Installation

- 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	Dimensions (mm)			Nominal air rate flow		Filtration media m ²	Initial pressure drop Pa		
	A	B	C	m ³ /h	m ³ /sx10 ^{-3*}		TPFE	TPFS	TPFH
E / S / H	287x	592x	23	850	236	0,17	25	40	60
E / S / H	400x	500x	23	1000	278	0,2	25	40	60
E / S / H	400x	625x	23	1250	347	0,25	25	40	60
E / S / H	500x	500x	23	1250	347	0,25	25	40	60
E / S / H	500x	625x	23	1570	436	0,31	25	40	60
E / S / H	592x	592x	23	1800	500	0,35	25	40	60
E / S / H	287x	592x	48	850	236	0,17	40	65	90
E / S / H	400x	500x	48	1000	278	0,2	40	65	90
E / S / H	400x	625x	48	1250	347	0,25	40	65	90
E / S / H	500x	500x	48	1250	347	0,25	40	65	90
E / S / H	500x	625x	48	1570	436	0,31	40	65	90
E / S / H	592x	592x	48	1800	500	0,35	40	65	90

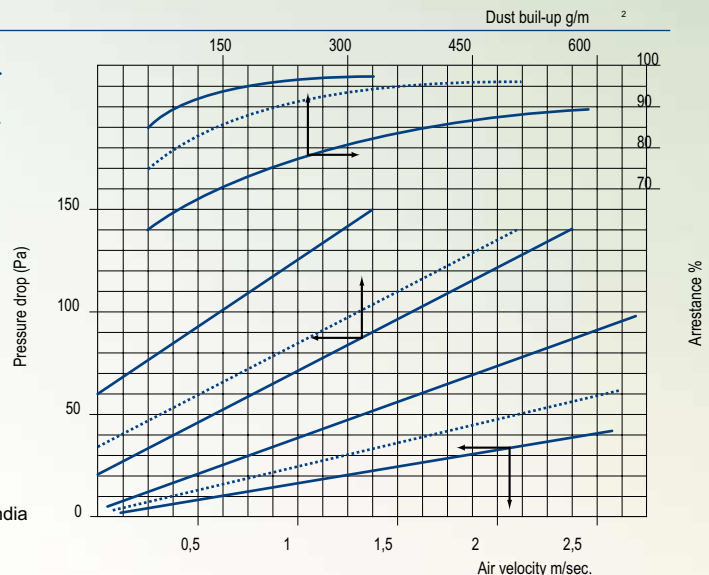
*1 m³/s x 10⁻³ = 1 l/s

Size



Typical curves

- PFE ————
 - TPFS - - - - -
 - TPFH ————
- 23 mm thick



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