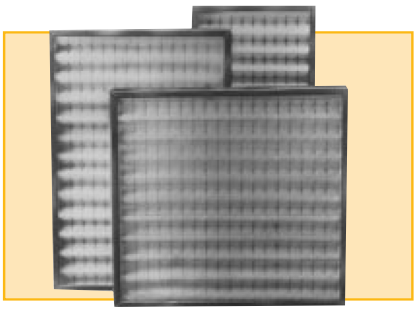
DISPOSABLE SYNTHETIC & GREASE PROOF GRADE EU5-EU2

PFO/E - PFO/S - PFO/H

GAMMA series pleated synthetic filter screens

PFO/E - PFO/S - PFO/H

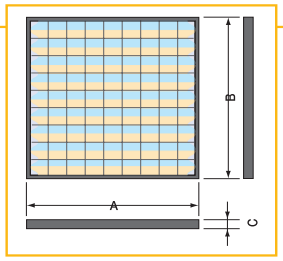


Product:	PFO/E	PFO/S	PFO/H
UNI EN 779 class:	G 3	G 4	G 4
EUROVENT class:	EU 3	EU 4	EU 4
Am ASHRAE 52.1.1992:	84 %	92 %	94 %
Suggested final pressure drop:	200 Pa	200 Pa	200 Pa
Maximum pressure drop:	250 Pa	250 Pa	250 Pa
Maximum operating temperature:	90 °C	90 °C	90 °C
Maximum relative humidity:	100%	100%	100%

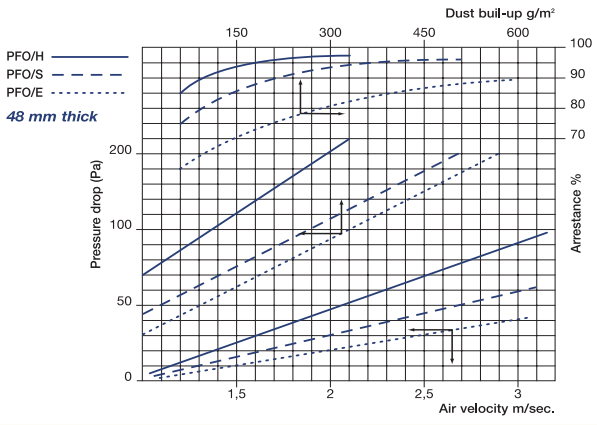
Type	Dimensions (mm)			Nominal air rate flow		Filtration media	Initial pressure drop Pa		
PF...	A	B	C	m^3/h	$m^3/sx10^{-3*}$	m^2	PFO/E	PFO/S	PFO/H
E / S / H	287 x	592 x	48	1400	389	0,32	45	75	90
E / S / H	400 x	500 x	48	1650	458	0,38	45	75	90
E / S / H	400 x	625 x	48	2100	583	0,47	45	75	90
E / S / H	500 x	500 x	48	2100	583	0,47	45	75	90
E / S / H	500 x	625 x	48	2600	722	0,58	45	75	90
E / S / H	592 x	592 x	48	3000	833	0,66	45	75	90
E / S / H	287 x	592 x	98	2000	555	0,51	60	100	110
E / S / H	400 x	500 x	98	2300	639	0,60	60	100	110
E / S / H	400 x	625 x	98	2900	805	0,75	60	100	110
E / S / H	500 x	500 x	98	2900	805	0,75	60	100	110
E / S / H	500 x	625 x	98	3700	1028	0,93	60	100	110
E / S / H	592 x	592 x	98	4200	1166	1,05	60	100	110

**1 m^3/s x 10^{-3} = 1 l/s*

Size



Typical Curves



PFO/E - PFO/S - PFO/H pleated filters have good filtration efficiency levels for average size particles and high holding capacities, besides having a robust construction.
The synthetic fiber medium is positioned in a pleated way to offer a bigger filtration surface, face sizes being equal.
The pleated medium furthermore assure a higher dust build-up level.
The frame is in galvanized steel sheet and it is held between two electrically welded galvanized steel holding grids.
Pressure varies according to the type of filter and the thickness.
The re-generable medium allows you to use the filters for a long time, thus reducing management costs.
Pleated filters are available in several sizes and air flow rates that meet the various needs of commercial civil use.

Applications

PFO/E - PFO/S - PFO/H pleated filters offer a wide range of uses:

- ventilation units, thermal fans and hot air generators for civil and industrial facilities
- as first filtration stage in air treatment units and independent roof to conditioners upstream of high efficiency or activated carbon filters
- independent close control conditioners
- filtration walls for big tertiary building systems

Installation

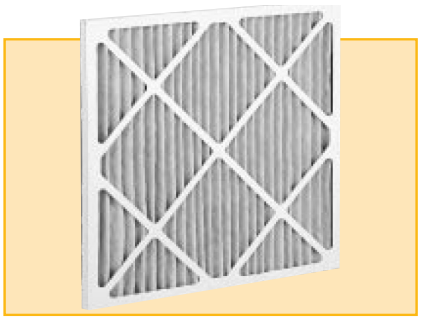
PFO/E - PFO/S - PFO/H pleated filters are installed in U-shaped guides that make them very stable and make them easily removable for cleaning operations.
PFO/E - PFO/S - PFO/H pleated filters can be installed in two ways:

- flat, for low face speeds, up to 2.5 m/s
- V-position, for face air speeds up to 3.5 m/s.

They can be installed both vertically and horizontally, or in proper counter-frames (CT 10...) which hold and lock the filters in position through return springs.

DISPOSABLE SYNTHETIC & GREASE PROOF GRADE EU5-EU2

PFA/4 - PFA/5



GAMMA series, high resistance throwaway panels

PFA/4 - PFA/5

PFA/4 – PFA/5 panels have a high filtration efficiency, limited pressure drop and high dust holding capacity.
They are fitted with a humidity-proof, punched carton frame; the filter medium is a blend of synthetic and cotton fibers, pleated and held into position by stretched aluminum grids.
The medium is fixed to the frame through a very strong anti-aging external glue.
PFA/4 - PFA/5 panels come with two different frame thickness: 48 and 98 mm, which have pressure drop levels between 80 and 120 Pa, according to the models.
The pleated panels offer a filtration surface which is double or three times the flat panels of the same size. Thanks to their high filtration efficiency, strong construction, high dust holding capacity and high manufacturing quality these filters are widely used in conditioning and ventilation systems.
They offer a long operating life with very low fan energy consumption levels.
PFA/4 - PFA/5 panels are disposable filters and must be eliminated at the end of their operative life.

Product:	PFA/4	PFA/5
UNI EN 779 class:	G 4	F 5
EUROVENT class:	EU 4	EU 5
Am ASHRAE 52.1.1992:	92 %	---
Em ASHRAE 52.1.1992:	---	45 %
Suggested final pressure drop:	200 Pa	200 Pa
Maximum pressure drop:	250 Pa	250 Pa
Maximum operating temperature:	70 °C	70 °C
Pleated filter media:	synthetic / cotton	synthetic / cotton

Type	Dimensions (mm) A		B		C	Nominal air rate flow m³/h	m³/sx10⁻³*	Filtrat. media m²	Initial pressure drop Pa
PFA/4	287	x	592	x	48	1400	389	0,6	80
PFA/4	400	x	500	x	48	1650	458	0,6	80
PFA/4	400	x	625	x	48	2100	583	0,7	80
PFA/4	500	x	500	x	48	2100	583	0,7	80
PFA/4	500	x	625	x	48	2600	722	0,9	80
PFA/4	592	x	592	x	48	3000	833	1,1	80
PFA/4	287	x	592	x	98	2000	556	1	120
PFA/4	400	x	500	x	98	2300	639	1,1	120
PFA/4	400	x	625	x	98	2900	806	1,3	120
PFA/4	500	x	500	x	98	2900	806	1,3	120
PFA/4	500	x	625	x	98	3700	1028	1,7	120
PFA/4	592	x	592	x	98	4200	1167	1,9	120
PFA/5	287	x	592	x	48	1400	389	0,6	100
PFA/5	400	x	500	x	48	1650	458	0,6	100
PFA/5	400	x	625	x	48	2100	583	0,7	100
PFA/5	500	x	500	x	48	2100	583	0,7	100
PFA/5	500	x	625	x	48	2600	722	0,9	100
PFA/5	592	x	592	x	48	3000	833	1,1	100

**1 m³/s x 10⁻³ = 1 l/s*

Applications

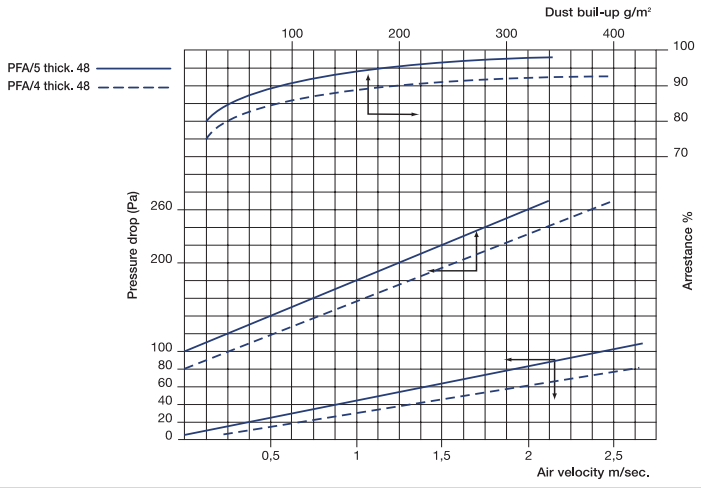
PFA/4 - PFA/5 panels can be use in a variety of different sectors:

- air treatment plants and independent roof-top conditioners, used as pre-filters upstream of high efficiency filters
- autonomous close control conditioners
- civil and commercial ventilation systems
- painting booth exhaust systems

Installation

PFA/4 - PFA/5 filters are generally installed perpendicular to the air flow, with the pleats in vertical position.
They are installed in U-shaped guides which makes them easy to remove at the end of their operating life.
The filters can be burned which makes them easy to eliminate.

Typical Curves

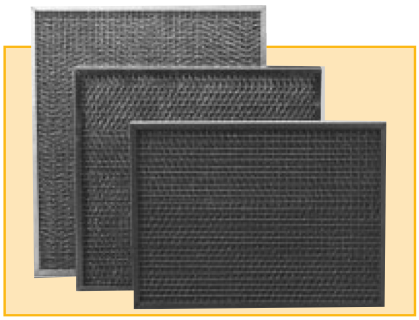


DISPOSABLE SYNTHETIC & GREASE PROOF GRADE EU5-EU2

PFI - PFM - PFO/M

GAMMA series, metal and grease-proof filter panels

PFI - PFM - PFO/M

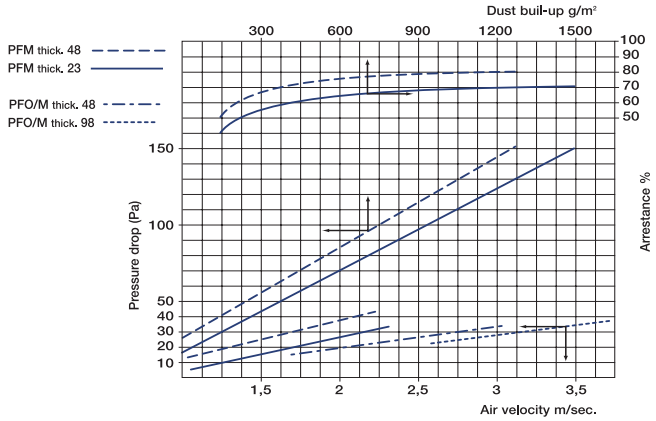


Product:	PFI	PFM	PFO/M
UNI EN 779 class:	G 3	G 2	G 2
EUROVENT class:	EU 3	EU 2	EU 2
Am ASHRAE 52.1.1992:	82 %	60-65 %	65-70 %
Maximum operating temperature:	300 °C	250 °C	250 °C

Type	Dimensions (mm) A	B	C	Nominal air rate flow m³/h	m³/sx10⁻³*	Filtrat. media m²	Initial pressure drop Pa
PFI	250	500	12	400	111	0,12	15
PFI	400	400	12	540	150	0,16	15
PFI	400	500	12	660	183	0,20	15
PFI	400	625	12	830	230	0,25	15
PFI	500	500	12	830	230	0,25	15
PFI	500	625	12	1050	291	0,31	15
PFM	287	592	23	850	236	0,17	15
PFM	400	500	23	1000	278	0,20	15
PFM	400	625	23	1250	347	0,25	15
PFM	500	500	23	1250	347	0,25	15
PFM	500	625	23	1570	436	0,31	15
PFM	592	592	23	1800	500	0,35	15
PFM	287	592	48	850	236	0,17	25
PFM	400	500	48	1000	278	0,20	25
PFM	400	625	48	1250	347	0,25	25
PFM	500	500	48	1250	347	0,25	25
PFM	500	625	48	1570	436	0,31	25
PFM	592	592	48	1800	500	0,35	25
PFO/M	287	592	48	1400	389	0,32	25
PFO/M	400	500	48	1650	458	0,38	25
PFO/M	400	625	48	2100	583	0,47	25
PFO/M	500	500	48	2100	583	0,47	25
PFO/M	500	625	48	2600	722	0,58	25
PFO/M	592	592	48	3000	833	0,66	25

**1 m³/s x 10⁻³ = 1 l/s*

Typical Curves



PFI - PFM - PFO/M metal filter panels are special products suitable for heavy jobs. PFI models are grease-proof panels suitable for installation in the extractor hoods of professional kitchens. They are fitted with an AISI 304 stainless steel frame; the medium is in AISI 304 stainless steel, with micro-stretched sheet-steel. These filters have a high oil and grease holding and build-up efficiency level and are totally re-generable. They are mechanically very strong and can work with temperatures up to 300°C. PFM - PFO/M models are fitted with a galvanized steel frame with electrically welded grids; the medium is in galvanized steel, with flat wire metal mesh. The low pressure drop level of these filters assures modest extraction fan energy consumption rates.

Applications

The PFI grease-proof metal filters are installed in the extractor hoods of professional kitchens, deep-frying machines, ovens or food cooking elements in general. They are used in a wide range of areas: fast food restaurants, snack bars, restaurants, cafeterias, food industries. PFM and PFO/M filters are suitable for strong concentrations of dust in the air and where you need high resistance against high temperatures (up to 250°C.);

- Hot air generators for civil and industrial facilities
- Ventilation of electric motors and industrial machines
- Separators of oily mists
- Filtration walls for industrial systems
- Systems on mobile vehicles subject to vibrations

Installation

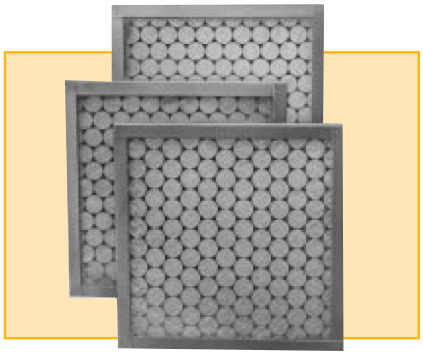
PFI grease-proof metal filters are installed in professional kitchen extractor hoods. PFM and PFO/M filters are installed in holding ducts (mod. Multimod) or in U-shaped guides in two ways:

- Flat arrangement for low face air speeds, up to 1.5 m/s
- V-arrangement for face air speeds up to 2.5 - 3 m/s in appropriate counter-frames.

They can be installed both horizontally and vertically.

DISPOSABLE SYNTHETIC & GREASE PROOF GRADE EU5-EU2

PFP 23 THICK - PFP 48 THICK



GAMMA series, disposable filter panels

PFP 23 thick - PFP 48 thick

Product:	PFP 23 thick	PFP 48 thick
UNI EN 779 class:	G 2	G 3
EUROVENT class:	EU 2	EU 3
Am ASHRAE 52.1.1992:	65 - 70 %	83 %
Suggested final pressure drop:	200 Pa	200 Pa
Maximum pressure drop:	250 Pa	250 Pa
Maximum operating temperature:	70 °C	70 °C
Flat filter media:	FG 1	FG 2

PFP filter panels are fitted with glass fiber media, continuous and uniformly distributed and joined with a special adhesive.
The media have an increasing density in the air flow direction to assure a higher dust holding capacity and a lower pressure drop compared to similar models.
The frame is made of strong punched carton with media holding elements.
Pressure drop levels are very low and this contributes to limiting the consumption of energy of the fan of the system.
The filters are fitted with two different media: either 23 or 48 mm thick, which have clean filter pressure drop levels of 15 and 25 Pa, respectively.
These filters are disposable type.
They come in different sizes with different air flow rates to meet the requirements of most of the applications.

Type	Dimensions (mm) A	B	C	Nominal air rate flow m^3/h	$m^3/s \times 10^{-3}$*	Filtrat. media m^2	Initial pressure drop Pa
PFP	287	592	23	850	236	0,17	15
PFP	395	495	23	1000	278	0,20	15
PFP	395	620	23	1250	347	0,25	15
PFP	495	495	23	1250	347	0,25	15
PFP	495	620	23	1570	436	0,31	15
PFP	592	592	23	1800	500	0,35	15
PFP	287	592	48	850	236	0,17	25
PFP	395	495	48	1000	278	0,20	25
PFP	395	620	48	1250	347	0,25	25
PFP	495	495	48	1250	347	0,25	25
PFP	495	620	48	1570	436	0,31	25
PFP	592	592	48	1800	500	0,35	25

**1 $m^3/s \times 10^{-3}$ = 1 l/s*

Applications

PFP filtration panels are used especially in civil and commercial facilities:

- Independent conditioning units, hot air generators.
- Roof top conditioning units like first filtration stage upstream of higher efficiency filters
- Painting booth exhaust systems
- General ventilation applications

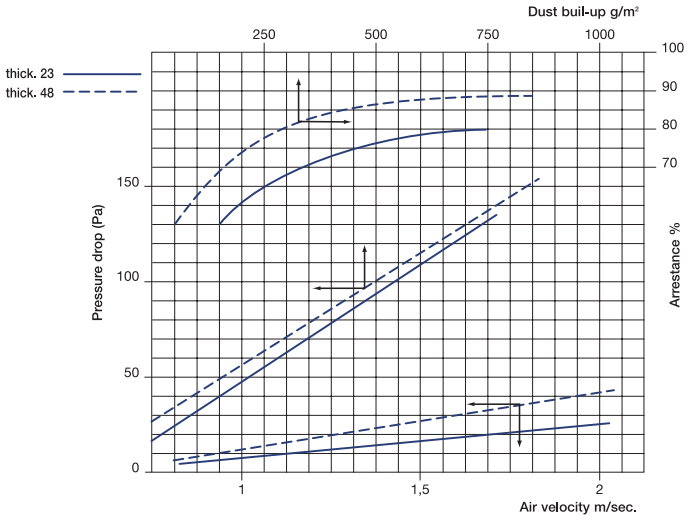
Installation

PFP filter panels are installed in U-shaped guides that make them very stable and make them easily removable.
They can be installed in two different ways:

- flat, for low face speeds, up to 1.5 m/s
- V-position, for face air speeds

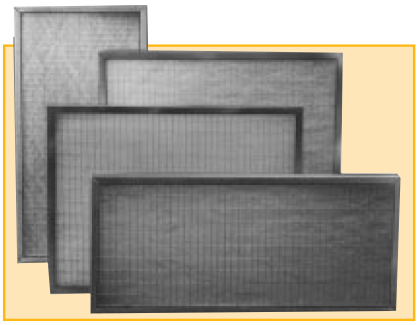
up to 2.5 - 3 m/s in proper counter-frames
They can be installed both vertically and horizontally in proper counter-frames CT 10/20/30.

Typical Curves



DISPOSABLE SYNTHETIC & GREASE PROOF GRADE EU5-EU2

PFC - PFE - PFS - PFH



Series GAMMA
Symthetic Filter Panel

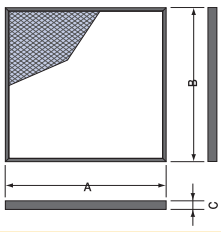
PFC - PFE- PFS - PFH

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
Mesh protection grids:	12 x 24 mm	12 x 24 mm	12 x 12 mm	12 x12 mm

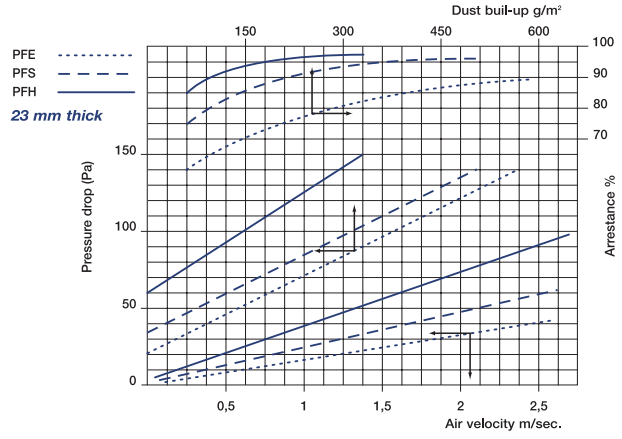
Type	Dimensions (mm)			Nominal air rate flow		Filtration media	Initial pressure drop Pa		
PF...	A	B	C	m³/h	m³/sx10⁻³*	m²	PFE	PFS	PFH
E / S / H	287 x	592 x	23	850	236	0,17	25	40	60
E / S / H	400 x	500 x	23	1000	278	0,2	25	40	60
E / S / H	400 x	625 x	23	1250	347	0,25	25	40	60
E / S / H	500 x	500 x	23	1250	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



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.

DISPOSABLE SYNTHETIC & GREASE PROOF GRADE EU5-EU2

FG1 - FG2 - FG4

MATGLASS filter media in glass fiber

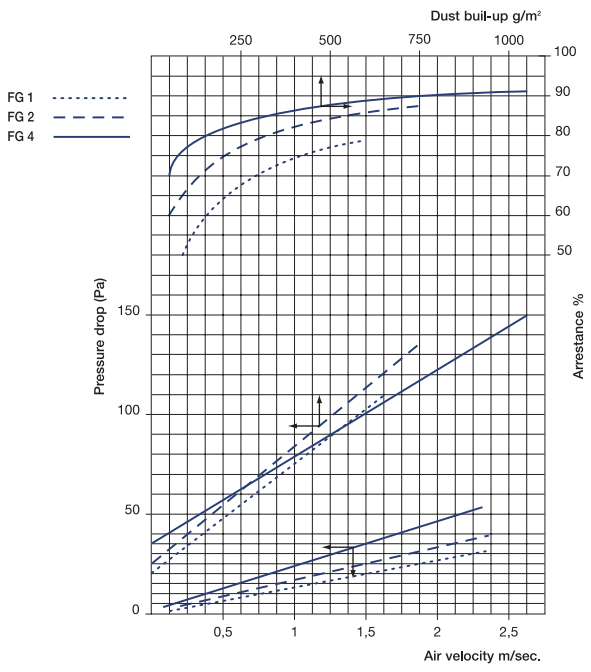
FG1 - FG2 - FG4

Product:	FG 1	FG 2	FG 4
UNI EN 779 class:	G 2	G 3	G 4
EUROVENT class:	EU 2	EU 3	EU 4
Am ASHRAE 52.1.1992:	70 - 75 %	80 - 85 %	90 %
Suggested final pressure drop:	150 Pa	150 Pa	150 Pa
Maximum operating temperature:	120 °C	120 °C	120 °C
Fire reaction according to DIN 53438:	F 1	F 1	F 1

FG MATGLASS filter media are made of glass fibers of various sizes, distributed with progressive densities in the direction of the air flow and combined with special resins.
They allow for better dust holding and high build-up capacity.
FG 1 - 2 - 4 media are made with three different thickness and weights to offer a selection of products that can better meet the requirements of use.
They are supplied in 20 m. rolls 2 m. wide or on request in panels of various sizes. The arrestance/dust filtration efficiency is different for the three models, from medium to medium-high (from G2 to G4).
Dust holding capacity is very high.
Another advantage of the MATGALSS media is their insensitivity to atmospheric agents. The media are self-extinguishing belonging to class F1 DIN 53438 and tolerate temperatures up to 120°C.
The media are disposable and must be properly disposed of at the end of their operating life.

Type	Dimensions Length (m)		Height (m)		Thickness (mm)	Rated air velocity m/s	Initial pressure drop Pa
FG 1	20	x	2	x	25	1,5	20
FG 2	20	x	2	x	50	1,5	25
FG 4	20	x	2	x	100	1,5	35

Typical Curves



Applications

FG MATGLASS filter media are widely used in industries, in painting plants and in the energy sector.
They can be used as sole filtration elements. In bigger applications they are installed as pre-filters upstream of higher efficiency filters to extend their operating life.

Installation

FG MATGLASS filters are suitable for installation in proper galvanized steel sheet frames.
These panels can be insulated in a flat, perpendicular position to the air flow, or V-positioned in proper U-shaped guides from which they can be extracted for maintenance operations.

DISPOSABLE SYNTHETIC & GREASE PROOF GRADE EU5-EU2

SF600 - SF700

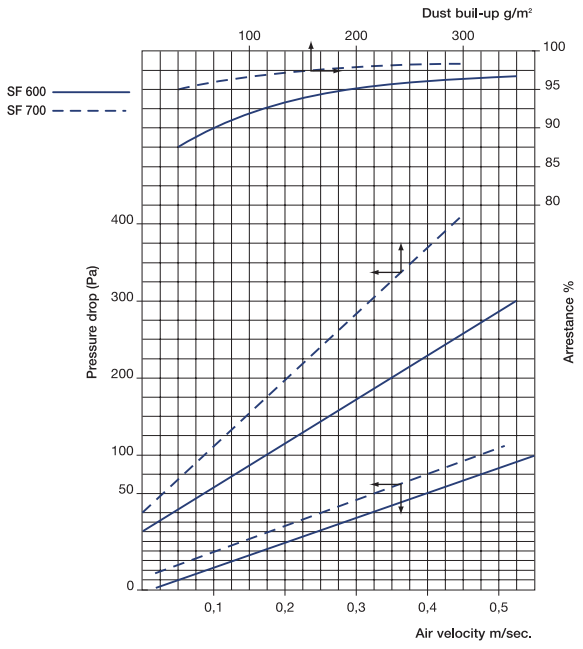
MATFIL series filter media in synthetic fibers

SF600 - SF700

Product:	SF 600	SF 700
UNI EN 779 class:	F 5	F 5
EUROVENT class:	EU 5	EU 5
Am ASHRAE 52.1.1992:	95 %	98 %
Suggested final pressure drop:	450 Pa	450 Pa
Maximum operating temperature:	100 °C	100 °C
Fire reaction according to DIN 53438:	F 1	F 1

Type	Dimensions Length (m)		Height (m)		Thickness (mm)	Rated air velocity m/s	Initial pressure drop Pa
SF 600	20	x	2	x	20	0,25	30
SF 700	20	x	2	x	25	0,25	40
SF B/A	20	x	2	x	20	-	-

Typical Curves



SF 600 - 700 MATFIL filter media are made of synthetic self-extinguishing micro-fibers, with progressive structure, of various sizes and lengths, combined with special resins. They come with 2 different arrestance/dust filtration efficiency values; they are supplied in 20 m long and 2 m wide rolls or on request in panels of various sizes. A special fabric on the air outlet side assures an effective dimensional stability and prevents fiber release.
The media are self-extinguishing belonging to class F1 DIN 53438.
Dust arrestance levels are more or less constant in time; and dust holding capacity is high whereas pressure drop levels have minimal variations between the initial and final values.
Another advantage of MATFIL media is their insensitivity to atmospheric agents.
These media are disposable and must be properly disposed of at the end of their operating life.

Applications

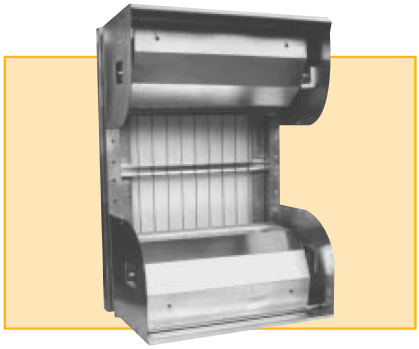
SF 600 - 700 MATFIL filter media are suitable especially for industrial painting plants for top quality finishing and in drying tunnels.
Thanks to their top quality and high efficiency level they can be used in numerous conditioning and ventilation applications, both as sole filter or as pre-filters upstream of absolute of semi-absolute filters.

Installation

SF 600 - 700 MATFIL filters are suitable for installation in proper galvanized steel sheet frames. Face surface begin equal these panels can be positioned in a flat or pleated position to increase the filtration surface.
These panels can be installed in a flat or perpendicular position to the air flow, or V-positioned in proper U-shaped guides from which they can be extracted for maintenance operations.

DISPOSABLE SYNTHETIC & GREASE PROOF GRADE EU5-EU2

ROLL - FILTER C



Automatic roll filters

Roll-Filter C

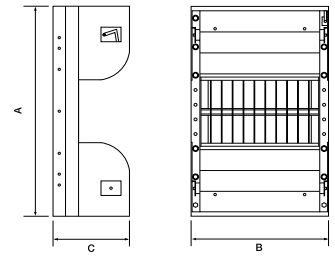
Product:	**Roll-Filter C**
UNI EN 779 class:	**G 2 - G 4**
Power supply:	**220 V - 1f -50 Hz**
Installed power:	**180 W**

Automatic roll filters Roll-Filter C include a bearing frame which is fitted with a clean filter roll on the top and a dirty filter collection roll on the bottom. A ratio-motor, controlled by a differential pressure-switch, pulls the media when the pre-set level is reached. The medium slides through appropriate guides which prevent deformation and sacking with high pressure levels. The Roll-Filter C filters include an electric control panel and a micro-switch.
These are the advantages of these filters:

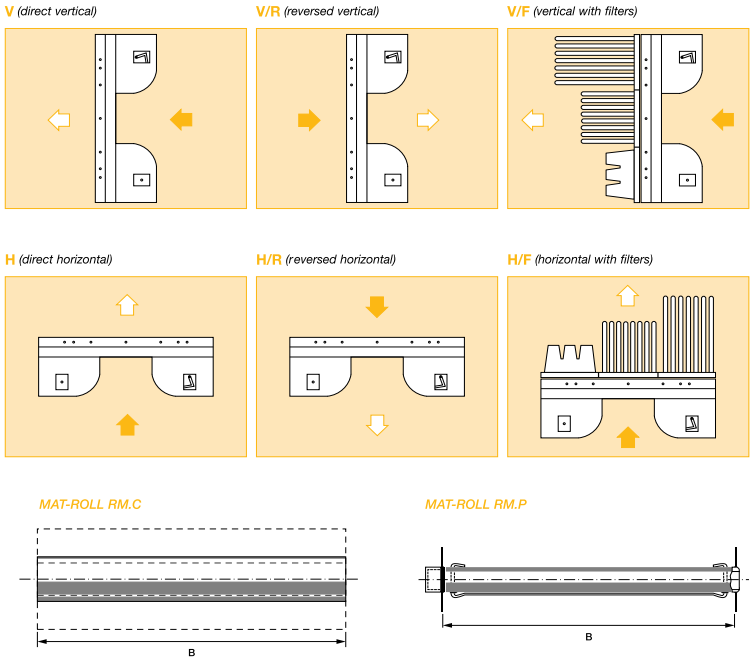
- long operating life and minimum maintenance
- pressure drop almost constant during the entire operating cycle, which means air flow rate variations are not significant
- medium consumption is proportional to the content of dust in the air; basically with low dust contents the use of the medium is minimum and the operating life increases.

The filtration media is in synthetic fiber and has G4 class arrestance values.

Size



Type	Dimensions (mm)				
Roll-Filter C	A		B		C
2'	1000 ÷ 4000	x	630	x	490
3'	1000 ÷ 4000	x	930	x	490
4'	1000 ÷ 4000	x	1230	x	490
5'	1000 ÷ 4000	x	1530	x	490
6'	1000 ÷ 4000	x	1830	x	490
7'	1000 ÷ 4000	x	2130	x	490



Applications

Automatic roll filters Roll-Filter C are used in conditioning and ventilation systems especially where operating with minimum maintenance is required. They are used as pre-filters for high efficiency filters. They are usually installed in air treatment plants and ventilation units, or in appropriate filtration rooms. They can be fitted with panel or bag filters on the air outlet side to increase air filtration efficiency levels. They can also be used to treat medium and big air flow rates.

Installation

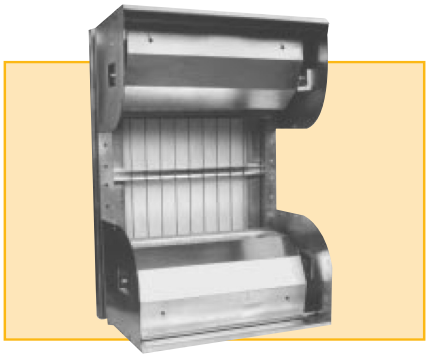
Roll-Filter C filters are typically installed in air treatment plants, downstream of mixing rooms. They can also be installed as independent elements in process applications and industries. Installation can be vertical or horizontal, with direct (V/H) or reversed (V/R) operation.

Maintenance

Maintenance is easy thanks to the replacement of the complete cartridge-roller. The RM-C roller, made of synthetic media 15 m long, can be replace the RM-CV roll made of glass fiber media 20 m long. Class G3.

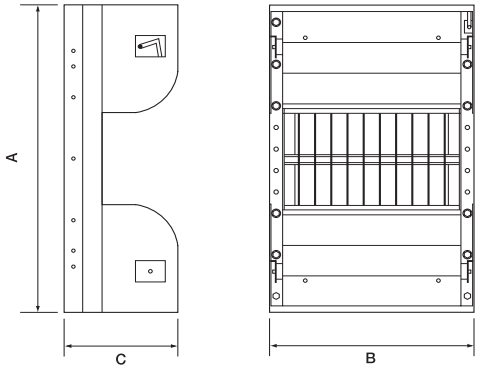
DISPOSABLE SYNTHETIC & GREASE PROOF GRADE EU5-EU2

ROLL - FILTER C



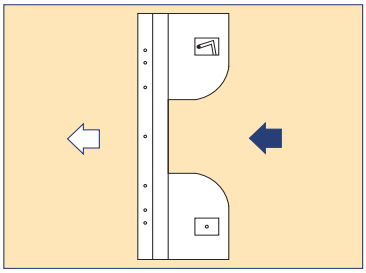
Automatic roll filters

Roll-Filter C

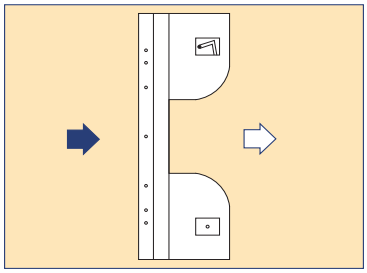


Type	Dimensions (mm)				
Roll-Filter C	A		B		C
2'	1000 ÷ 4000	x	630	x	490
3'	1000 ÷ 4000	x	930	x	490
4'	1000 ÷ 4000	x	1230	x	490
5'	1000 ÷ 4000	x	1530	x	490
6'	1000 ÷ 4000	x	1830	x	490
7'	1000 ÷ 4000	x	2130	x	490

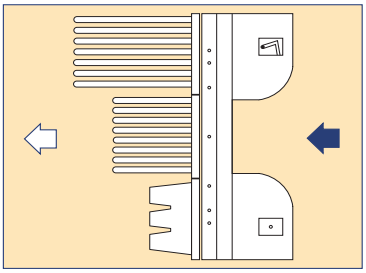
V *(direct vertical)*



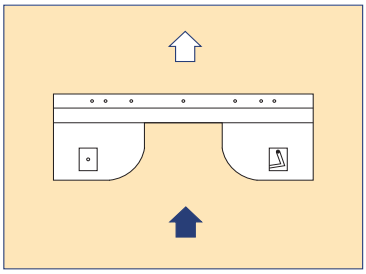
V/R *(reversed vertical)*



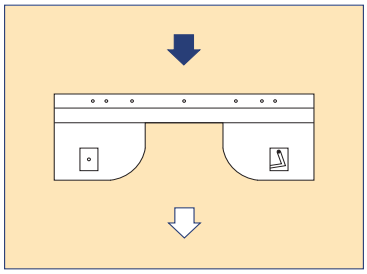
V/F *(vertical with filters)*



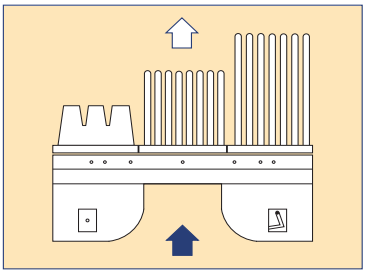
H *(direct horizontal)*



H/R *(reversed horizontal)*



H/F *(horizontal with filters)*

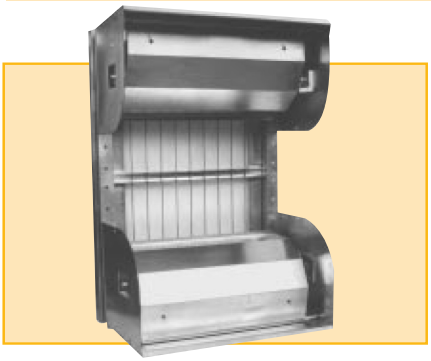


MAT-ROLL RM.C

MAT-ROLL RM.P

DISPOSABLE SYNTHETIC & GREASE PROOF GRADE EU5-EU2

MAT-ROLL RMC • MAT-ROLL RM.P



Roll-Filter C spare parts

MAT-ROLL RM.C
MAT-ROLL RM.P

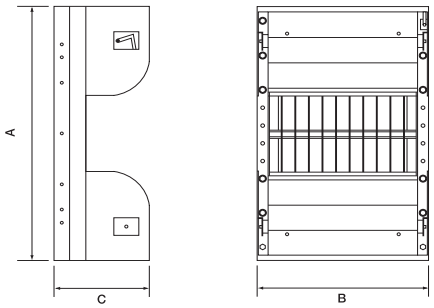
Maintenance

Maintenance is easy thanks to the replacement of the complete cartridge-roller. The RM-C roller, made of synthetic media 15 m long, can be replace the RM-CV roll made of glass fiber media 20 m long. Class G3.

Type	Dimensions (mm)
Roll-Filter C	B
2'	530
3'	830
4'	1130
5'	1430
6'	1730
7'	2030

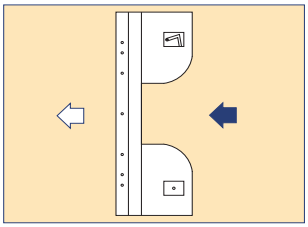
Installation

Roll-Filter C filters are typically installed in air treatment plants, downstream of mixing rooms. They can also be installed as independent elements in process applications and industries.
Installation can be vertical or horizontal, with direct (V/H) or reversed (V/R) operation.

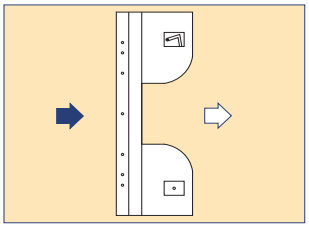


Type	Dimensions (mm)				
Roll-Filter C	A		B		C
2'	1000 ÷ 4000	x	630	x	490
3'	1000 ÷ 4000	x	930	x	490
4'	1000 ÷ 4000	x	1230	x	490
5'	1000 ÷ 4000	x	1530	x	490
6'	1000 ÷ 4000	x	1830	x	490
7'	1000 ÷ 4000	x	2130	x	490

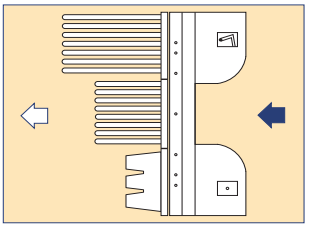
V *(direct vertical)*



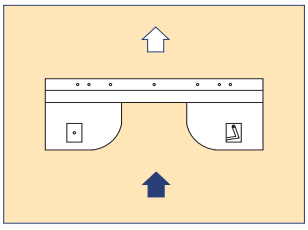
V/R *(reversed vertical)*



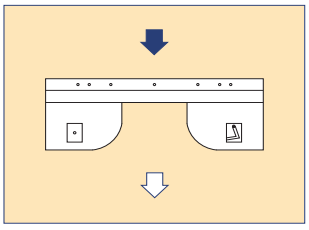
V/F *(vertical with filters)*



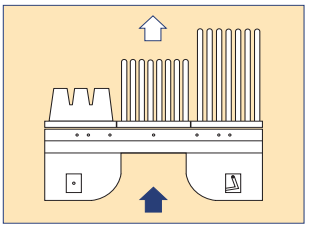
H *(direct horizontal)*



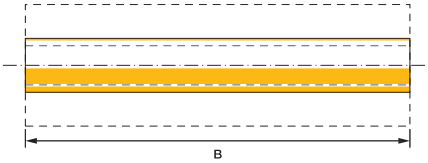
H/R *(reversed horizontal)*



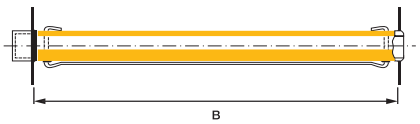
H/F *(horizontal with filters)*



MAT-ROLL RM.C



MAT-ROLL RM.P



DISPOSABLE SYNTHETIC & GREASE PROOF GRADE EU5-EU2

SF100 - SF200 - SF270 - SF450

MATFIL series filter media in synthetic fibers

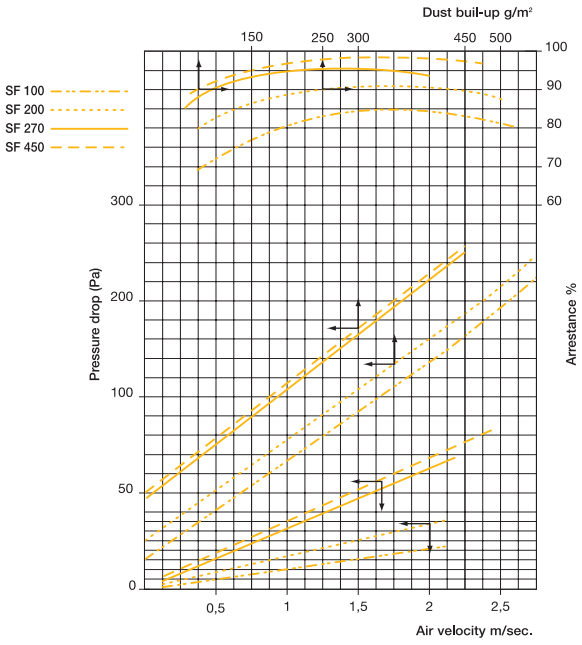
SF100 - SF200 - SF270 - SF450

Product:	SF 100	SF 200	SF 270	SF 450
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:	70 %	84 %	91 %	94 %
Suggested final pressure drop:	250 Pa	250 Pa	250 Pa	250 Pa
Maximum operating temperature:	90 °C	90 °C	90 °C	90 °C
Fire reaction according to DIN 53438:	F 1	F 1	F 1	F 1

Type	Dimensions Length (m)		Height (m)		Thickness (mm)	Rated air velocity m/s	Initial pressure drop Pa
SF 100	20	x	2	x	9	1,5	15
SF 200	20	x	2	x	16	1,5	25
SF 270	20	x	2	x	20	1,5	40
SF 450	20	x	2	x	25	1,5	50
SF Carbo	20	x	2	x	20	-	-

Model	Dimensions (mm) Length		Height		Thickness
Rigid polyurethane	1500	x	2000	x	6
Soft polyurethane	1000	x	2000	x	6

Typical Curves



SF MATFIL filter media are made of synthetic fibers of various sizes and lengths, combined with special resins. They come in four different thickness and weights to offer a selection of products that can better meet the requirements of use. They are supplied in 20 m. rolls, 2 m. wide or in 500 x 500 mm panels or other sizes. The arrestance/dust filtration efficiency is different for the four models, from medium-low to high (from G2 to G4) and it is kept almost constant in time. Dust holding capacity is very high. Another advantage of MATFIL media is their insensitivity to atmospheric agents. The media are self-extinguishing belonging to class F1 DIN 53438. According to the models they are re-generable or partially re-generable.

Applications

SF MATFIL filter media are widely used in civil thermal-ventilation, conditioning and ventilation systems. They can be used as pre-filters upstream of higher efficiency filters to extend their operating life. For this reason they are installed in proper frames inside air treatment plants, roof top conditioners, ventilation convectors, hot air generators, autonomous conditioners, etc.

Installation

SF MATFIL filters are suitable for installation in proper galvanized steel sheet frames. Face surface begin equal these panels can be positioned in a flat or pleated position to increase the filtration surface. These panels can be installed in a flat or perpendicular position to the air flow, or V-positioned in proper U-shaped guides from which they can be extracted for maintenance operations.