

[www.filtertechnik.dk](http://www.filtertechnik.dk)

# Dust Filtration Catalogue

*Pre filtration mats*  
*Glass fibre mats*  
*Pocket filters*  
*Panel filters*  
*Compact filters*  
*Cassette filters*  
*Dust filters*



# Dust Filtration Catalogue

In order to show our product range of filtration products - we have made a series of product catalogues. Detailed description of our products are found in the various catalogues - in printed as well as in electronic version - the electronic version is found via our homepage and contains link to the internet for further information.

We cooperate with suppliers offering products of high quality as well as technical support in order to cover the requirements of our customers.

Industrial demands for raised productivity as well as lower maintenance costs - higher quality and environmental considerations are also factors in which we continuously try to enhance our skills as well as our products.

Our employees possess high technical skills, expertise and experience within filtration technology.

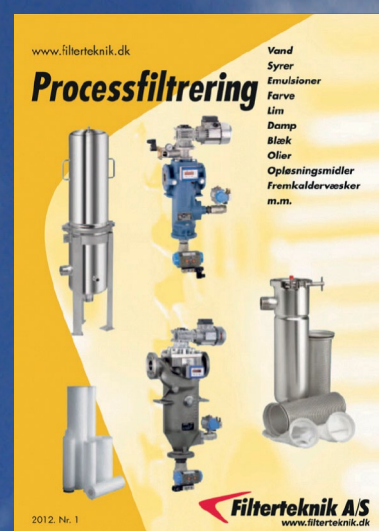
The purpose of our product catalogue is in a simple manner to offer guidance in the relevant product segment. The catalogue is divided into sub categories for every product range.

We hope that our range of products will cover your requirements of filtration products - thus providing a simple and more easy purchase procedure for You.

## Business concept

We aim to be a sole supplier of filtration products for the industrial, construction, shipping and offshore industry.

Filtarteknik A/S  
Korskildeeng 2  
2670 Greve  
Denmark





# ***Dust Filtration Catalogue***

Pre filtration mats	3
Demister-Coalescing Pad	4
Glass fibre mats	5-6
Andrea	7
Pocket Filter G4	8-9
Pocket filter M5-F9 / Synthetic media	10
Pocket filter M5 – F9 / Glass fibre Media	11
Pocket filter F7 & F9 / High efficient A-class	12-13
Panel Filters High Capacity	14
Panel filter M5	15
Eco Panel	16-17
Compact Filters HXL	18-19
Cassette Filters VXL HEPA	20-21
Cassette Filters Wood HEPA	22-23-24
Dust filter H12 – H14	25-26
Standardization EN779:2012	27
Standardization EN1822:2009	28
Notes	29-30

# ***Pre filtration rolls***

## ***Applications***

For Pre filtration in aerial engineering devices of all kinds

- Heat ventilation and air conditioning devices
- Prefiltration in air-conditioning systems
- Prefiltration for painting and drying plants

## ***Versions***

- Standard rolls 20 x 2m and 20 x 1m (depending on type)
- Precut for finished dimensions (depending on purchase quantity)
- Stamp pieces in various dimensions available

## ***Classification acc. to EN779***

- Filter class G2
- Filter class G3

## ***Material characteristics***

- Tested according to EN779
- Shatter-proof synthetic fibers
- Fire prevention requirements according to DIN 53438 (F1)
- Humidity resistant to 100% r.h.
- Temperature resistant up to max 80 C





# Demister-Coalescing Pad

Low pressure drop

Economical in use

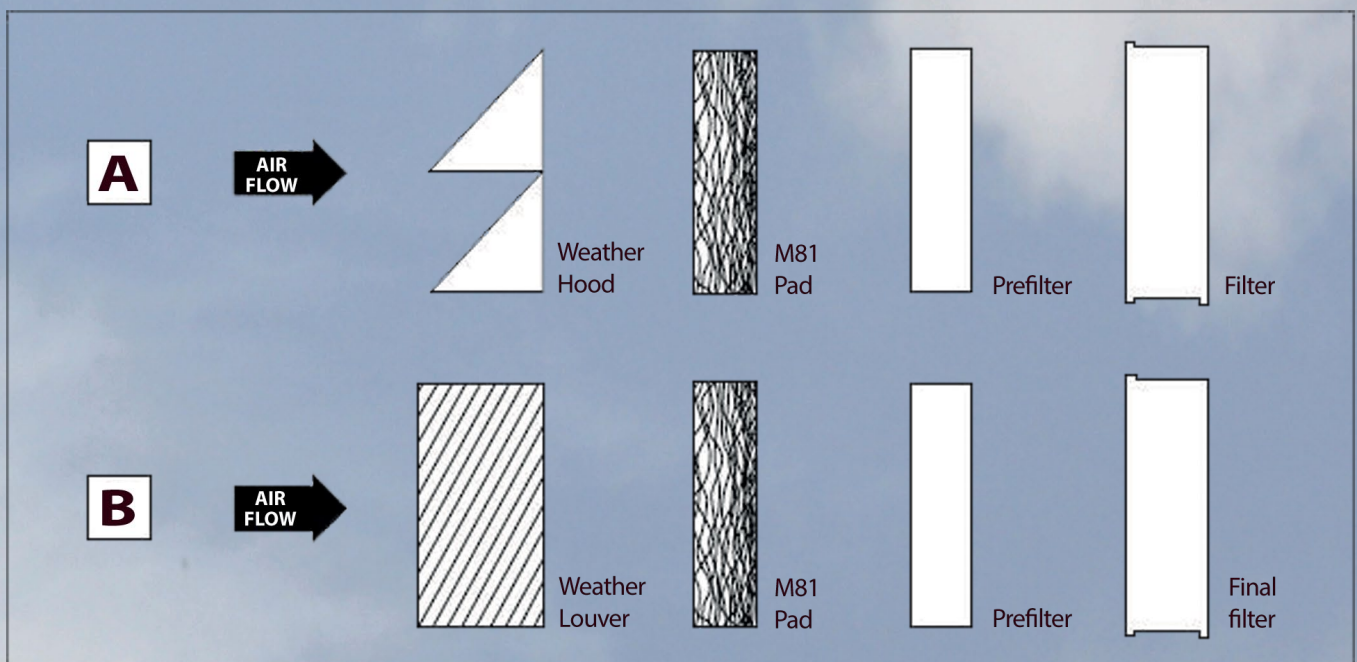
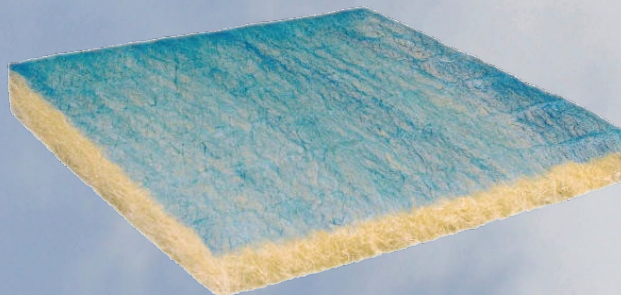
Long service life

## Applications

- DC Pads should be used for the elimination of mist/free moisture from the environment or caused by processes in the immediate area of the intake.
- They are typically used in coastal areas, behind air washers, and at plant sites that have long periods of heavy rain and/or frequent heavy fog/mist.

## Versions

- The media is 3 inch (75 mm) thick.
- Precut for finished dimensions (depending on purchase quantity)





# Glass fibre mats

## Applications

Paint-Stop (Green):

For use in separation of ink mist in paint shops and colour spraying cabins

- In automotive industry
- Manufacturing plants for furniture, windows, machines, ect

Dust-Stop (yellow):

For separation of dry dust types

- In carpenters workshops, metal working industry, ect.

## Versions

- Standard rolls e.g. 20 x 1m and 20 x 2m
- Precut for finished dimensions (depending on purchase quantity)
- Special sizes on request

## Classification

Paint-Stop (green)

- 2" 94% Arrestance \*
- 3" 96% Arrestance \*
- 4" 98% Arrestance \*

\*Paint mist Arrestance

Dust-Stop (yellow)

- 1" Filter class G2 \*
- 2" Filter class G3 \*
- 4" Filter class G4 \*

\*According to EN779



# Glass fibre mats

## Material characteristics

Paint-Stop (green):

- Temperature resistant up to max. 180°C
- Contains no silicone or other lacquer harming substances
- Fire prevention requirements according to DIN 53438 (F3)

Dust-Stop (yellow):

- Temperature resistant up to max. 80°C
- Additionally impregnated with antibacterial dust adhesive
- Contains no silicone
- Fire prevention requirements according to DIN 53438 (F3)

Standard versions glass fibre mats					
Product	Filter class	Arrestance	Material thickness approx.	Roll length*	Roll width*
			mm	m	m
Paint-Stop (green) 2"	-	94%	50	20 / 25 80 / 91	2.0 / 1.0 0.7 / 0.5
Paint-Stop (green) 3"	-	96%	70	20 / 25 80 / 91	2.0 / 1.0 0.7 / 0.5
Paint-Stop (green) 4"	-	98%	100	20 / 25	2.0 / 1.0 0.7 / 0.5
Dust-Stop (yellow) 1"	G2	-	25	20	2.0 / 1.0 0.7 / 0.5
Dust-Stop (yellow) 2"	G3	-	50	20	2.0 / 1.0 0.7 / 0.5
Dust-Stop (yellow) 4"	G4	-	100	20	2.0 / 1.0 0.7 / 0.5
* Further dimension on request					

Glass fibre mat G3					
Product	Material thickness approx.	Initial pressure drop	Recommended final pressure drop	Nominal air flow rate	Lacquer separation arrestance*
	mm	Pa	Pa	m <sup>3</sup> / h / m <sup>3</sup>	%
Paint-Stop (green) 3"	70	4 - 10	80	2500 - 6300	95
The measured data relates to 1m <sup>2</sup> filter-surface					
*The lacquer separation arrestance depends on the kind of lacquer, ink mist or environmental conditions like temperature or pressure in paint cabin					



## Applications

- For use in separation of ink mist in paint shops and color spraying cabins
- For use in metal industry, furniture industry, plastic industry, automotive and food industry
- Prefiltration for "Paint-Stop" filter mats for extended durability
- For products like primer, primer surface, 2 component lacquer, polyester, wax, tar, glue, adhesive, teflon, polyurethane, silicone, chocolate

## Versions

- Heights: 750 mm, 900 mm, 1000 mm
- Special sizes on request
- Optional flame-retardant according to DIN 53438 (F1/K1)
- Optional: water-repellent



## Material characteristics

- Self-rigid due to special pleating geometry and high-quality cardboard
- Humidity resistant up to 100% r.h.
- Arrestance up to 98% (depending on used lacquer)
- Temperature resistant up to 100° C

Standard versions Sepa-Paint							
Approx. length	Height	Filter area (approx.)	Initial pressure drop at 0.5 m/s	Initial pressure drop at 0.75 m/s	Initial pressure drop at 1.0 m/s	Recommended final pressure drop	Paint mist separation arrestance at 0.75 m/s <sup>1</sup>
m	mm	m <sup>2</sup>	Pa	Pa	Pa	Pa	%
13	750	9.75	20	40	70	130	91 - 98
11	900	9.9	20	40	70	130	91 - 98
10	1000	10	20	40	70	130	91 - 98
Information: Technical data is identical for standard-, water resistant-, and flame retardant versions							
1) Arrestance of overspray depends on paint consistency, concentration, temperature and type of ink mist							



# Pocket Filter G4

## ***Extended Surface Synthetic Pocket Filter***

Used as first stage filter and/or as pre-filter to higher efficiency filters in air handling units

### ***Applications***

- Synthetic filter media with high dust holding capacity
- All polymer construction - fully incinerable
- Long service life

### ***Classification acc. to EN779***

- Filter class G4

### ***Versions***

- Also available with a metal header
- Also available with other dimensions



# Pocket Filter G4

Type	8.212	6.224	6.212
EN779 Classification	G4	G4	G4
Max. Operating Temperature (°C)	70	70	70
Initial Resistance (Pa)	55	45	65
Final Resistance (Pa)	250	250	250
Rated Face Velocity (m/s)	3,2	3,2	3,2
Depth (mm)	305	610	305
Header Thickness (mm)	25	25	25

Examples:

Part number	Actual size W x H x D (mm)	Rated Face Velocity (m/s)	Number of Pockets	Gross Media Area (m <sup>2</sup> )	Rated Air- flow Capacity (m <sup>3</sup> /h)	Initial Resistance (Pa)
P4MCC300-3	287 x 287 x 305	3,2	3	0,6	1063	65
P4MAA600-6	592 x 592 x 610	3,2	6	5,2	4250	45
P4MBA600-5	490 x 592 x 610	3,2	5	4,4	3550	45
P4MBA300-5	490 x 592 x 310	3,2	5	2,2	3550	65
P4MCA300-3	287 x 592 x 305	3,2	3	1,3	2125	65



# Pocket Filter M5 - F9 / Synthetic Media

## Extended Surface Synthetic Pocket Filter For HVAC Applications

For fine filtration in heat ventilation and air conditioning devices and plants of all kind

### Applications

- Offices, hospitals, computing centers
- Pharmaceuticals, fine-mechanical and food industry
- Prefiltration e.g. for HEPA filters

### Classification acc. to EN779

- Filter class M5 - Green Version
- Filter class M6 - Green Version
- Filter class F7 - Red Version
- Filter class F8 - Yellow Version
- Filter class F9 - White Version



### Versions

- All filters are provided with 25 mm plastic header. Optional available size 20mm and 25 mm metal header
- Also available with other dimensions

Examples:

Part number	Actual size W x H x D (mm)	Rated Face Velocity (m/s)	Number of Pockets	Gross Media Area (m <sup>2</sup> )	Rated Airflow Capacity (m <sup>3</sup> /h)	Initial Resistance (Pa)	Filter Class
P5MAA300-6	592 x 592 x 305	2,5	6	2,4	3400	65	M5
P6MAA600-8	592 x 592 x 610	2,5	8	6,2	3400	65	M6
P7MAA500-6	592 x 592 x 535	1,25	6	4,2	1700	60	F7
P8MCA535-3	287 x 592 x 535	1,25	3	2,1	850	90	F8

# Pocket Filter M5 - F9 / Glassfibre Media

## Glass Fibre Pocket Filters For HVAC Applications

For fine filtration in heat ventilation and air conditioning devices and plants of all kind

### Applications

- Filter classes M5-F9 meet the clean air requirements of numerous industrial and Commercial applications
- Low resistance to airflow
- High dust holding capacity and long service life
- Outstanding performance in difficult operation conditions

### Classification acc. to EN779

- Filter class M5 - Green Version
- Filter class M6 - Amber Version
- Filter class F7 - Pink Version
- Filter class F8 - Yellow Version
- Filter class F9 - White Version



### Versions

- All filters are provided with 25 and 20 mm metal header
- Also available with other dimensions



Examples:

Part number	Actual size W x H x D (mm)	Rated Face Velocity (m/s)	Number of Pockets	Gross Media Area (m <sup>2</sup> )	Rated Airflow Capacity (m <sup>3</sup> /h)	Initial Resistance (Pa)	Filter Class
P5GAA635-6	592 x 592 x 635	2,5	6	5,0	3400	50	M5
P6GAA635-8	592 x 592 x 635	2,5	8	6,7	3400	60	M6
P7GAA635-8	592 x 592 x 635	3,2	8	6,7	3400	115	F7
P8GAA635-8	592 x 592 x 635	3,2	8	6,7	3400	165	F8
P9GAA700-10	592 x 592 x 700	2,5	10	9,4	3400	130	F9



# Pocket Filter F7 & F9 / High efficient A-class

## High Efficiency and low pressure drop synthetic pocket for HVAC applications

### Applications

- High filtration efficiency during complete installation time for improved indoor Air Quality
- Robust synthetic media with high dust holding capacity for improved lifetime expectancy
- Low pressure drop with energy rating A according to Eurovent 4/11
- Available in filter classes F7 and F9 with full compliance to EN779:2012

### Specification

Media	High efficiency synthetic media
Header	25 mm galvanized steel header Optional : 20 mm galvanized steel header
Gasket (optional)	EPDM (flat gasket)
Face velocity	Filters can be operated at 67% to 133% of the rated face velocity
Recommended final resistance	450 Pa (for classification)
Maximum operating temperature	70 °C continuous operating temperature

### Sizes and Performance

P/N	Size code			Actual filter size (mm)			Number of pockets	Nominal Airflow		Initial resistance (Pa)	Minimum Efficiency (ME)	Energy Rating i <sup>1</sup>	Filter media area	Rated face velocity
	W	H	D	W	H	D		m <sup>3</sup> /h	m <sup>3</sup> /s					
P7HAA635-10	24	24	25	592	592	635	10	3400	0,94	75	44%	A	7,8	2,5
P7HBA635-8	20	24	25	490	592	635	8	2850	0,79	75	44%	A	6,2	2,5
P7HCA635-5	12	24	25	287	592	635	5	1700	0,47	75	44%	A	3,9	2,5
P7HAA508-10	24	24	20	592	592	508	10	2700	0,75	75	44%	A	6,2	2,0
P7HBA508-8	20	24	20	490	592	508	8	2300	0,64	75	44%	A	5,0	2,0
P7HCA508-5	12	24	20	287	592	508	5	1350	0,38	75	44%	A	3,1	2,0

P/N	Size code			Actual filter size (mm)			Number of pockets	Nominal Airflow		Initial resistance (Pa)	Minimum Efficiency (ME)	Energy Rating i <sup>1</sup>	Filter media area	Rated face velocity
	W	H	D	W	H	D		m <sup>3</sup> /h	m <sup>3</sup> /s					
P9HAA635-10	24	24	25	592	592	635	10	3400	0,94	135	80%	A	7,8	2,5
P9HBA635-8	20	24	25	490	592	635	8	2850	0,79	135	80%	A	6,2	2,5
P9HCA635-5	12	24	25	287	592	635	5	1700	0,47	135	80%	A	3,9	2,5
P9HAA508-10	24	24	20	592	592	508	10	2700	0,75	135	80%	A	6,2	2,0
P9HBA508-8	20	24	20	490	592	508	8	2300	0,64	135	80%	A	5,0	2,0
P9HCA508-5	12	24	20	287	592	508	5	1350	0,38	135	80%	A	3,1	2,0

# Pocket Filter F7 & F9 / High efficient A-class

## Selection Guide

Item		Component Code Definition
A	P	Pocket filter
B	7 9	F7 –filter class F9 - filter class
C	H	Filter medie - High efficient A-class
DE	AA CA BA AC CC BB AB	592 x 592 mm (24" x 24") 287 x 592 mm (12" x 24") 490 x 592 mm (20" x 24") 592 x 287 mm (24" x 12") 287 x 287 mm (12" x 12") 490 x 490 mm (20" x 20") 592 x 490 mm (24" x 20")
F	508 635	508 mm (20") pocket length 635 mm (25") pocket length
G	5 8 10	5 pockets – only available in 287 mm width 8 pockets – only available in 490 mm width 10 pockets – only available in 592 mm width

## Order example following the Component Code Definition System

A	B	C	DE	F	G
P	7	H	AA	508	10

P7HAA508-10 = F7, 10 pockets filter in dimension 592x592x508 mm with 25 mm standard galvanized steel header





# Panel Filters High Capacity

## A unique Range Of Panel Filters

For pre filtration in heat ventilation and air conditioning devices and plants of all kind

### Applications

- Unique self-supporting media
- Consistent pleat spacing
- No metal parts – fully incinerable
- Water resistant frame
- High integrity media retains its shape and form

### Classification acc. to EN779

- Filter class G4



Examples:

Size (inch) (W x H x D)	Size (mm) (W x H x D)	Rated Airflow Capacity (m <sup>3</sup> /h)			No. Pleats Filter	Media Area (m <sup>2</sup> )
		1.5 m/s	2.5 m/s	3.12 m/s		
10 x 20 x 2	242 x 492 x 44	680	1190	1445	11	0.48
12 x 24 x 2	289 x 594 x 44	1020	1700	2125	14	0.74
16 x 20 x 2	394 x 495 x 44	1150	1870	2380	19	0.84
18 x 24 x 2	442 x 594 x 44	1530	2550	3230	21	1.10
25 x 25 x 2	622 x 622 x 44	2210	3655	4590	30	1.66
10 x 20 x 1	242 x 492 x 19	680	1190	-	11	0.22
12 x 24 x 1	289 x 594 x 19	1020	1700	-	14	0.34
16 x 20 x 1	394 x 495 x 19	1105	1870	-	19	0.39
18 x 24 x 1	442 x 594 x 19	1530	2550	-	21	0.52
25 x 25 x 1	622 x 622 x 19	2210	3740	-	30	0.78

# Panel Filters M5

## A sturdy Panel Filter for Commercial & Industrial Applications

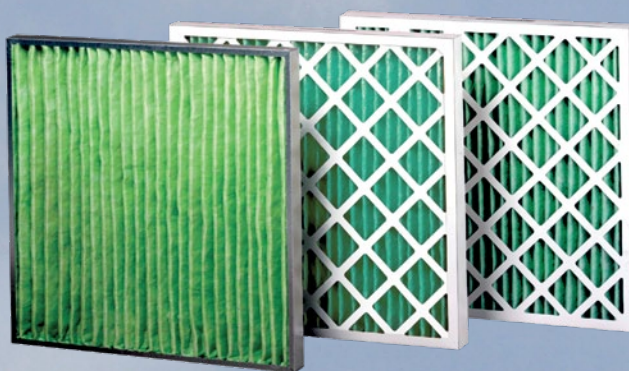
For fine filtration in heat ventilation and air conditioning devices and plants of all kind

### Applications

- High loft Glass fibre pleated media
- Synthetic layer on air leaving side
- High dust holding capacity
- Long life service

### Classification acc. to EN779

- Filter class M5



Technical Data:

Type	500 – 2"	500 – 4"
Actual Depth (mm)	45	95
Rated Face Velocity (m/s)	1.5	2.7
Average Arrestance <sup>1)</sup> (%)	98	98
EN779 Classification	M5	M5
Rated Intial Resistance <sup>1)</sup> (Pa)	125 @ 1,5 m/s	145 @ 2,7 m/s
Recomm. Final Resistance <sup>2)</sup> (Pa)	300	300
Temperature Limits (°C)(Continu- ous operation)	90	90

Examples:

Part number	Size <sup>2/3)</sup> (mm) W x H	Airflow at 2.5 m/s (m <sup>3</sup> /h)
94212-24-C-M5	290 x 595	1700
94216-20-C-M5	392 x 494	1870
94216-25-C-M5	392 x 621	2380
94220-20-C-M5	494 x 494	2380
94218-24-C-M5	595 x 445	2550



# Eco Panel

## Applications

- Available in M6, F7, F8 and F9
- Non corrosive
- Fully incinerable
- Compact construction
- In line with VDI 6002 and EN 13779

Classification acc. To EN779:2012

Specifications:

Media	High efficiency water resistant glass fibre
Cell Sides	High impact polystyrene (HIPS)
Separators	Hot melt
Disposal	Municipal incinerator
Maximum operating temperature	70 °C

Technical data:

Performance data Filter class – Initial resistance (Pa) – Gross media area (m <sup>2</sup> )											
Actual Size mm W x H x D	m <sup>3</sup> /H	m <sup>2</sup>	Pa	Energy Class M6 <sup>5)</sup>	Pa	Energy Class F7 <sup>5)</sup>	Pa	Energy Class F8 <sup>5)</sup>	Pa	Energy Class F9 <sup>5)</sup>	Style code
592 x 592 x 48	2000	6,7	70	G	80	F	100	E	130	D	24 24 2
490 x 592 x 48	1700	5,5	70	G	80	F	100	E	130	D	20 24 2
287 x 592 x 48	1000	3,2	70	G	80	F	100	E	130	D	12 24 2
592 x 592 x 98	3400	11,6	125	G	155	F	180	E	215	D	24 24 4
490 x 592 x 98	2900	9,5	125	G	155	F	180	E	215	D	20 24 4
287 x 592 x 98	1700	5,5	125	G	155	F	180	E	215	D	12 24 4

1) Performance data according to EN779:2012

2) Final resistance 450 Pa for classifications purpose only

3) Width and Height are interchangeable. Eco-Panel filters can be installed horizontally or vertically

4) Special sizes are available on request

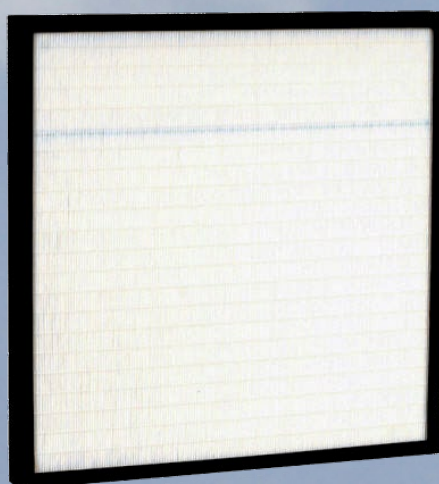
5) Filters tested at an airflow of 3400 are granted an Energy Efficiency Label (based on Eurovent 4/11).

# Eco Panel

## Legend

Type	EP	Eco-Panel
Filter class	6 7 8 9	M6 to EN779 F7 to EN779 F8 to EN779 F9 to EN779
Size	24242 20242 12242 12122 24244 20244 12244 12124	592 x 592 x 48 490 x 592 x 48 287 x 592 x 48 287 x 287 x 48 592 x 592 x 98 490 x 592 x 98 287 x 592 x 98 287 x 287 x 48
Gasket	P S X	No Gasket foramed polyurethane gasket special
Gasket location	2 3	one side two sides

Example : EP6-48-592-592





# Compact Filters HXL

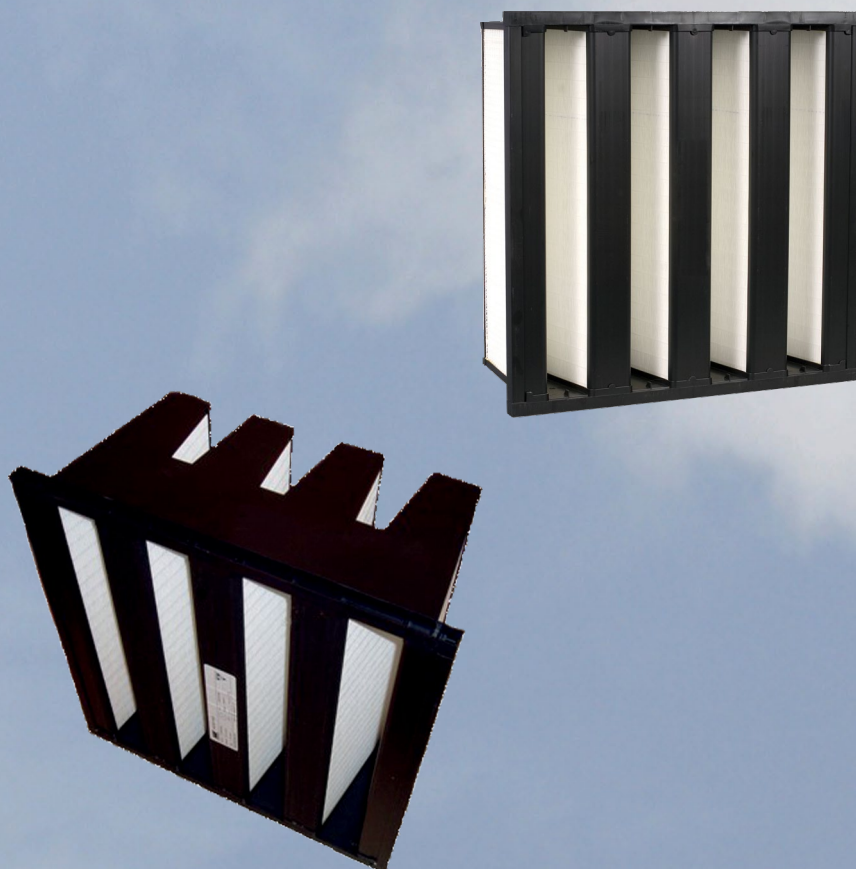
## High Capacity, High Efficiency Barrier for Rotating Machinery

### ***Applications***

- High efficiency and dust holding capacity
- Water resistant media
- Extended media area
- Sturdy construction
- Fully Incinerable
- Full polymer construction
- Free of halogens

### ***Classification acc. to EN779 / EN1822 and ASHRAE 52.2***

- Filter class M6 – H10



# Compact Filters HXL

## High Capacity, High Efficiency Barrier for Rotating Machinery

### Specification:

Maximum operating temperature	70 °C
Media	High efficiency, water resistant glass fibre
Cell sides and header	Polystyrene and ABS
Separators	Hot melt
Faceguards	Plastic faceguards on air leaving side
Gasket	Gasket on air leaving side as standard

### Technical Data:

Type	C6MAA	C7MAA	C8MAA	C9MAA	C10MAA
Norminal cell size (inch)	24x24x17	24x24x17	24x24x17	24x24x17	24x24x17
Actual size (mm)	592x592x440	592x592x440	592x592x440	592x592x440	592x592x440
Initial resistance	Pa in WG	Pa in WG	Pa in WG	Pa in WG	Pa in WG
at 5100 m <sup>3</sup> /h 3000 CFM	110 0.44	115 0.46	120 0.48	145 0.58	190 0.76
at 4250 m <sup>3</sup> /h 2500 CFM	80 0.32	91 0.36	100 0.40	115 0.46	145 0.58
at 3400 m <sup>3</sup> /h 3400 CFM	55 0.22	70 0.28	75 0.30	80 0.32	110 0.44
Final Resistance <sup>2)</sup>	635 2.5	635 2.5	635 2.5	635 2.5	635 2.5
Burst pressure	7600 30	7600 30	7600 30	7600 30	7600 30
Media area m <sup>2</sup> /ft <sup>2</sup>	28.1 / 302	28.1 / 302	28.1 / 302	28.1 / 302	28.1 / 302
Filter class EN779 / EN1822 <sup>1)</sup>	M6	F7	F8	F9	H10
Average efficiency EN779	60-65	80-90	90-95	>95	>99
Average arrestance On AC Fine test Dust (%)	100	100	100	100	100
Filter class ASHRAE 52.2 <sup>1)</sup>	MERV13	MERV14	MERV15	MERV16	MERV16

#### Notes

<sup>1)</sup> All performance data based on EN779 / EN1822 and ASHRAE 52.2

<sup>2)</sup> Recommended maximum value. Filters can be operated to a lower or higher final resistance without materially affecting filter efficiency

<sup>3)</sup> Standard Compact Filter HXL filters have 25 mm header; suffix "A" denotes 20mm header as option



# ***Cassette Filters VXL HEPA***

---

## **High Efficiency Barrier for Rotating Machinery**

### ***Applications***

- Classification H10, H11, H12, and H13 to EN1822
- Long life service
- High media area; low pressure drop
- Lightweight and easy to install
- Full polymer construction
- Fully incinerable; free of halogens

### ***Classification acc. to EN1822***

- Filter class H10 – H13



# Cassette Filters VXL HEPA

## High Efficiency Barrier for Rotating Machinery

Technical Data:

Type	C10MAA	C11MAA	C12MAA	C13MAA
Nominal size (inch)	24x24x12	24x24x12	24x24x12	24x24x12
Actual size (mm)	592x592x292	592x592x292	592x592x292	592x592x292
Initial resistance				
at high airflow (m <sup>3</sup> /h) / (Pa)	4250 / 190	3400 / 180	3400 / 295	2500 / 260
at rated airflow (m <sup>3</sup> /h) / (Pa)	3400 / 140	3000 / 155	3000 / 260	2000 / 200
Final Resistance(typical) (Pa)	600	600	600	600
Media area m <sup>2</sup>	22.0	22.0	22.0	22.0
Filter class EN1822	H10	H11	H12	H13

Specification:

Maximum operating temperature	70 °C
Media	High efficiency, water resistant glass fibre
Cell sides and header	Polystyrene and ABS
Separators	Hot melt
Options	Gasket on air entry or air leaving side
Burst pressure	1500 Pa

### Notes

<sup>1)</sup> Width and height are interchangeable, pleats can be either vertical or horizontal without affecting performance

<sup>2)</sup> All performance data based on EN1822 at rated airflow. (filters are not leaktested)

<sup>3)</sup> Recommended maximum value. Filters can be operated to a lower final resistance without effecting filter efficiency

<sup>4)</sup> Filters are also available with H = 490 mm and H = 287 mm

<sup>5)</sup> Header size 25 mm



# Cassette Filters Wood HEPA

## High Efficiency Particulate Air Filter

### Applications

- Non-shedding construction
- Leakfree construction
- Fully incinerable

### Classification acc. To EN1822

- Filter class H13 and H14

A Cassette Filter Wood HEPA can be ordered using the following Component Code Definition System. Use the table to specify a product suitable to your application requirements.



# Cassette Filters Wood HEPA

## High Efficiency Particulate Air Filter

Technical data:

Item	Component	Component Code Definition
A	Media	A = Waterproof glass fibre (H13) E = Waterproof glass fibre (H14)
B	Cell Sides	72 = MDF
C	Media Pack	R-K-M-S-T*
D	Bond	9 = Cold cured resin
E	Gasket	P = No Gasket S = 7 mm, half round profile, one piece foamed T = 6 mm, flat profile
F	Gasket Location	0 = No Gasket 2 = One face 3 = Both Faces
G	Acceptance	H = H13 Min. 99.95% @ MPPS, acc. To EN1822 R = H14 Min. 99.995% @ MPPS, acc. To EN1822

## How to order

Below a typical example of how to order a standard Cassette Filter Wood Hepa using the Component Code Definition System

Item	A	B	C	D	E	F	G
Component Definition	A	72	K	9	S	2	H

Efficiency:

Efficiency	Efficiency EN1822	
@ 0.3 µm	@MPPS	
99.997%	H13	99.95%
99.999%	H14	99.995%



# Cassette Filters Wood HEPA

## High Efficiency Particulate Air Filter

### Standard Sizes and Ratings

\*R = 35 mm Pack

K = 48 mm Pack

M = 96 mm Pack

S = 120 mm Pack

T = 180 mm Pack

<sup>1)</sup> Cassette Filters Wood HEPA can be installed with the separators in either the horizontal or vertical position

#### Notes:

- Initial resistance at nominal airflow is:

250 Pa for H13

290 Pa for H13, A72T9S2H

320 Pa for H14

370 Pa for H14, E72T9S2R

- Temperature limit: 70 °C

- Final Resistance 600 Pa

Size in mm 1)			Airflow	
H	W	D	M³/H	M³/s
<b>A72R9S2H</b>			<b>v test = 0.6 m/s</b>	
240	240	56	110	0.03
610	305	56	435	0.12
490	490	56	500	0.14
610	610	56	875	0.24
<b>A72K9S2H</b>			<b>v test = 0.75 m/s</b>	
305	305	78	250	0.07
457	457	78	570	0.16
610	305	78	500	0.14
610	610	78	1000	0.28
<b>A72K9S2H</b>			<b>v test = 0.75 m/s</b>	
203	203	150	110	0.03
305	305	150	250	0.07
457	457	150	570	0.16
610	305	150	500	0.14
575	575	150	900	0.25
610	610	150	1000	0.28
610	762	150	1250	0.35
610	915	150	1500	0.42
610	1220	150	2000	0.56
610	1524	150	2500	0.69
610	1830	150	3000	0.83
762	762	150	1600	0.44
762	1524	150	3150	0.88
762	1830	150	3800	1.06
915	915	150	2250	0.63
915	1220	150	3000	0.83
915	1524	150	3800	1.06
915	1830	150	4550	1.26
<b>A72M9S2H</b>			<b>v test = 1.25 m/s</b>	
305	305	292	400	0.11
610	305	292	830	0.23
457	457	292	935	0.26
610	610	292	1700	0.47
610	762	292	2125	0.59
<b>A72S9S2H</b>			<b>v test = 1.5 m/s</b>	
305	305	292	500	0.14
610	305	292	1000	0.28
457	457	292	1130	0.31
610	457	292	1500	0.42
610	610	292	2000	0.56
610	762	292	2500	0.69
<b>A72T9S2H</b>			<b>v test = 2.25 m/s</b>	
305	305	292	750	0.21
610	305	292	1500	0.42
457	457	292	1700	0.47
610	457	292	2250	0.63
610	610	292	3000	0.83
610	762	292	3750	1.04

# Dustfilter H12 - H14

## High Efficiency Particulate Air Filters

### Applications

- H12, H13 and H14 in accordance with EN1822
- 4000 m<sup>3</sup>/h air volume saves space
- Low energy consumption

### Classification acc. to EN1822

- Filter class H13 and H14



A Dustfilter can be ordered using the following Component Code Definition System.  
Use the table to specify a product suitable to your application requirements

Efficiency:

Efficiency	Efficiency EN1822	
@ 0.3 µm	@MPPS	
99.997%	H13	99.95%
99.999%	H14	99.995%

Initial Resistance Table:

	Normal air flow (m <sup>3</sup> /h)	Initial resistance (Pa)
H12	4000	250
H13	4000	250
H14	3400	310
H14	4000	380

Standard Sizes and Ratings:

Size in mm without gasket			Nominal airflow
H	W	D	m <sup>3</sup> /H
610	305	292	1500
610	610	292	4000

Notes:

- 1) Final resistance 750 Pa
- 2) Temperature limit 70 °C



# Dustfilter H12 - H14

## High Efficiency Particulate Air Filters

Selection Table:

Item	Component	Component Code Definition
A	Type of filter	A39 = Dustfilter
B	Media	A = Waterproof Glass Fibre (H12/H13) E = Waterproof Glass Fibre (H14)
C	Cell Sides	03 = Sendzimir zinc coated steel (1500) 05 = Sendzimir zinc coated steel (4000) 07 = Stainless steel 304 (4000) 08 = Stainless steel 304 (1500)
D	Separators	C = Thermoplastic
E	Bond	9 = Polyurethane Cold Cured Resin
F	Gasket	P = No gasket S = Polyurethane foam, half round profile, one piece T = 6 mm, flat profile
G	Gasket Location	0 = No gasket 2 = One face
H	Acceptance Level	G = H12 Min. 99.5% @ MPPS, acc. To EN1822* H = H13 Min. 99.5% @ MPPS, acc. To EN1822 R = H14 Min. 99.995% @ MPPS, acc. To EN1822
I	Faceguard Location	O = No faceguard
K	Options	Consult local sales office

Note:

For 3400 MDF and NG execution consult specification sheets

Bold typeface : standard execution

\*Non leaktested filter

### How to order

Below a typical example of how to order a standard Dustfilter using the Component Code Definition System

Item	A	B	C	D	E	F	G	H	I	K
<b>Component Definition</b>	A39	A	05	C	9	S	2	G	0	-

# EN779:2012

## New European Standard for General Ventilation Filters

The European Committee for Standardization (CEN) has established a new standard for general ventilation air filters, EN779:2012. Where the existing EN779:2002 was already widely accepted as a standard for testing and classifying coarse and fine filters based on average efficiency, the revised standard is again an important step forward.

The EN779:2012 introduces an air filter classification for fine filters F7 to F9 based on minimum efficiency (ME). ME is defined as the lowest value of three different tests for 0.4  $\mu\text{m}$  particles; initial efficiency, efficiency throughout the test's loading procedure and discharged efficiency. Those air filters that do not meet the ME requirements will lose their original efficiency classification and will automatically drop one or more classes. With this revised methodology, the new EN779 will address the negative effects on Indoor Air Quality (IAQ) caused by underperforming air filters that currently exist in the market.

Although many air filters have demonstrated compliant average efficiencies, some do lose their particulate collection functionality over time and therewith become a gateway for airborne contamination in buildings. With the implementation of ME requirements in EN779:2012, the industry is now stimulated to develop fine filters with an improved efficiency throughout the entire installation cycle.

Fine filters previously rated as M5 or M6 to EN779:2002 are not required to meet an ME value in the new situation. To clearly differentiate these from those that do, filter classes M5 and M6 have been renamed to M5 and M6 as part of a new medium filter category.

Class	Final Pressure Drop Pa	Average arresstance (Am) of synthetic dust %	Average efficiency (Em) of 0,4 $\mu\text{m}$ particles %	Minimum Efficiency for 0.4 $\mu\text{m}$ particles %
G1	250	50 < Am < 65	-	-
G2	250	65 < Am < 80	-	-
G3	250	80 < Am < 90	-	-
G4	250	90 < Am	-	-
M5	450	-	40 < Em < 60	-
M6	450	-	60 < Em < 80	-
F7	450	-	80 < Em < 90	35
F8	450	-	90 < Em < 95	55
F9	450	-	95 < Em	70

Note: The characteristics of atmospheric dust vary widely compared to those of the synthetic dust used in the EN779 tests. Because of this, the test results do not provide a completely accurate basis for predicting either operational performance or service life. Loss of media charge or shedding of particles or fibers can also adversely affect efficiency.



# EN1822:2009

## European Standard for EPA, HEPA & ULPA Filters

### Procedure

- On a flat sheet of media, the MPPS is determined for the given media velocity. This can be done with a laser spectrometer or a combination of electrostatic classifier and CNC (Condensed Nucleus Counter).
- The filter is assembled with the specified media grade and amount of media to comply with the defined media velocity.
- The filter is challenged with an aerosol and at the MPPS both the local and overall efficiency are determined with either a CNC or laser spectrometer.
- Leaks are specified as maximum allowable local penetration at the MPPS and must not exceed 5 x the overall penetration.
- The filter is classified according to the test results in the range E10 - E12 for EPA (Efficiency Particulate Air Filters), H13 - H14 for HEPA (High Efficiency Particulate Air Filters), U15 - U17 for ULPA (Ultra Low Penetration Air Filters).

Filter Classification	Efficiency (%) at the MPPS		Penetration (%) at the MPPS	
	Overall Value	Local Value	Overall Value	Local Value
E10	> 85	-	15	-
E11	> 95	-	5	-
E12	> 99,5	-	0,5	-
H13	> 99,95	99,75	0,05	0,25
H14	> 99,995	99,975	0,005	0,025
U15	> 99,9995	99,9975	0,0005	0,0025
U16	> 99,99995	99,99975	0,00005	0,00025
U17	> 99,999995	99,9999	0,000005	0,00001

### Notes:

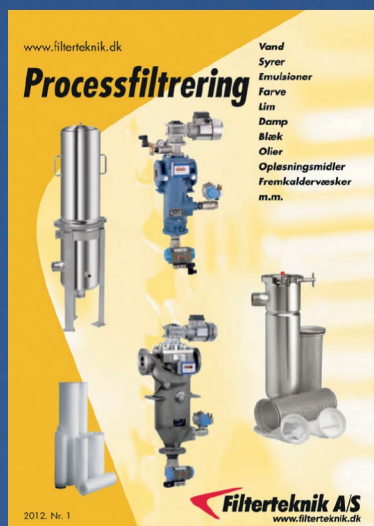
- Filters in the class E10, E11 and E12 do not require verification of local penetration.
- Filters in the classification H13 and H14 may, as an alternative, be verified with the visual oil-smoke oil thread test (previously known as DIN 24.184), which is accepted as equal or more searching than the specified local penetration.
- U17 is an exception to the rule. In this case local penetration may not exceed 20 x the overall penetration value.

## Notes

This image shows a single sheet of white paper with horizontal ruling lines. The lines are evenly spaced and run across the width of the page. There is no text or other markings on the paper.



## This image shows a single sheet of white paper with horizontal blue or grey ruling lines. The lines are evenly spaced and run across the width of the page. There are no margins, text, or other markings on the paper.



Filtertechnik A/S  
Korskildeeng 2  
DK-2670 Greve

Tlf. +45 5613 1072  
Fax +45 5613 1073

ftc@filtertechnik.dk  
www.filtertechnik.dk