
ECOTIP
Ecofil®
FILTER
air and liquid filtration

ECOTIP

ABOUT COMPANY

Company Ecotip d.o.o. is a Slovene company based in Slovenske Konjice, founded in 1993. Throughout the years, we had a steady growth in the number of employees, the number of customers and suppliers. Now we have more than 90 employees. Our products are sold in 24 countries of the world, while in Slovenia we have the largest market share.

Our main activity is the production of ECOFIL filters. Filters are manufactured in accordance with EN779: 2012 standard and ISO 16890: 2016 and are used in a variety of conditions for various uses, namely:

Heating Ventilation and Air Conditioning (HVAC):

- filters for ventilation and air conditioning of air in factories, buildings, hospitals, computer centers, electronic industry, schools, shopping centers;
- filters for varnishing booths such as prefilters, floor filters, ceiling filters and high temperature persistent filters for dryers.

Industrial Filtration

- filters for industrial filtration dedusting (tube and bag filters) for various conditions and applications in the pharmaceutical industry, cement plants, lime production, ironworks, steelworks, aluminum factories, wood and food industry, beverage and sugar factories, foundries, incinerators.

Filtration of liquids

- galvanization, wastewater treatment, winemaking, pharmacy.

OUR MISSION

CLEAN ENVIRONMENT

Ecotip d.o.o.'s main objective is to achieve a top position and remain a top domestic and international filter producer through quality, performance and client loyalty, efficiency and profitability. Our mission is a clean environment for healthier life of all people and our descendants.

This policy is based on the continuous implementation, maintenance and development of the integrated quality, environment, occupational health and safety management system, according to the requirements of ISO 9001:2015, ISO 14001:2015 and OHSAS 18001:2007, which will help us achieve the following goals:

- Customer-oriented processes and services, continuous development of service quality, maintaining the trust of traditional clients and gaining new clients;
- Protection of employees by identifying risk factors, evaluating work stations and implementing measures to prevent/diminish/remove the dangers of work accidents and occupational diseases, in order to ensure occupational health and safety;
- Limiting criminal and civil liability by complying with legal occupational health and safety regulations and other applicable requirements;
- Promotion of employee awareness and improvement of their professional skills regarding quality, environment, occupational health and safety;
- Improvement of management practices and compliance with legal applicable requirements;
- Identification of environment issues, protection of the environment, including prevention of pollution and reduction of the environmental impact;
- Considering and managing all aspects relevant in the context of the organization and according to owner's expectations;
- Reaching the annual goals regarding quality, environment, occupational health and safety;
- Continuous improvement of the integrated quality, environment, occupational health and safety management system by performing annual analyses.

The management of the company is directly involved in reaching the goals regarding quality, environment protection, occupational health and safety, by ensuring the necessary resources for the continuous efficiency growth of the Integrated System for the Management, surveillance and assessment of all aspects related to quality, environment, occupational health and safety, analyzing the information received from employees, suppliers, clients and others in order to gain and maintain their trust.

The policy and the specific goals regarding quality, environment, occupational health and safety are analyzed annually and updated whenever necessary, in order to ensure their continuous adequacy. By implementing this policy we seek to ensure the prosperity of the organization and its members.

QUALITY
ISO 16890 STANDARD

The new standard for air filtration

The air filtration sector is undergoing a complete revolution. For the first time, a standard recognizes the importance of air filters for improving air quality. ISO 16890 is closer to reality in determining the effectiveness. EN 779 has been the most widely-used method of classifying air filters for years. But the new ISO 16890 completely changes the way that filters are tested and categorized. It uses a number of new approaches and mechanisms that make the testing process more indicative of the conditions that the filter will operate within once installed.
The world's leading health-related organizations consider PM10, PM2,5 and PM1 fine dust fractions as the most important and dangerous for humans. It is therefore logical that filter test methods and classifications follow this approach to demonstrate filtration performance towards the most harmful fine dusts..

The main difference between EN779 and ISO 16890

In the past, filters were only exposed to size 0.4 µm particles for classification. Now, however, filter efficiency is measured with three different particle fractions, namely PM1, PM2.5 and PM10. This is a great help in selecting the best filter that provides the required efficiency.

The new international ISO 16890 standard defines four new filter groups based on dust particle size:

- Coarse Filtration: If the air filter captures less than 50% of the ePM10 particles
- ePM1 : particle size ≤ 1 µm
- ePM2,5 : particle size ≤ 2.5 µm
- ePM10 : particle size ≤ 10 µm

The decisive factor is whether a filter can separate more than 50% of a particle size range.

EFFICIENCY
ENERGY CONSUMPTION

Calculation and classification

The new standard measures filtration efficiency and pressure drop as a function of dust loading. The energy consumption level is calculated using the mean pressure drop difference averaged over the course of dust loading. On the basis of these figures, the energy performance of a filter over an operating period of one year is simulated in a laboratory.

The energy class is determined by the formula and table below.

$$E = \frac{q \times dP \times t}{n \times 1000} = kWh$$

- t (operating time) = 6000 hours
- q (flow rate) = 0,9443 $m^3/_S$ (3400 $m^3/_H$)
- n (fan efficiency) = 0,50
- dP = average pressure drop

Energy classes according to new ISO 16890:

AEC v kWh/y ZA ePM1	A+	A	B	C	D	E
50 & 55%	800	900	1050	1400	2000	> 2000
60 & 65%	850	950	1100	1450	2050	> 2050
70 & 75%	950	1100	1250	1550	2150	> 2150
80 & 85%	1050	1250	1450	1800	2400	> 2400
>90%	1200	1400	1550	1900	2500	> 2500
AEC v kWh/y ZA ePM2,5	**A+**	**A**	**B**	**C**	**D**	**E**
50 & 55%	700	800	950	1300	1900	> 1900
60 & 65%	750	850	1000	1350	1950	> 1950
70 & 75%	800	900	1050	1400	2000	> 2000
80 & 85%	900	1000	1200	1500	2100	> 2100
>90%	1000	1100	1300	1600	2200	> 2200
AEC v kWh/y ZA ePM10	**A+**	**A**	**B**	**C**	**D**	**E**
50 & 55%	450	550	650	750	1100	> 1100
60 & 65%	500	600	700	850	1200	> 1200
70 & 75%	600	700	800	900	1300	> 1300
80 & 85%	700	800	900	1000	1400	> 1400
>90%	800	900	1050	1400	1500	> 1500

AEC = Annual Energy Consumption

EFFICIENCY
ENERGY CONSUMPTION

Energy classes according to EN 779:2012

Filter Class 2015	M5	M6	F7	F8	F9
IPA Initial Efficiency @ 0,4 µm	n.a	n.a	ME > = 35%	ME > = 55%	ME > = 70%
Eurovent Energy Label	Energy @250g Ashrae dust			Energy @ 100g Ashrae dust	
A+	0-450 kWh	0-550 kWh	0-800 kWh	0-1000 kWh	0-1250kWh
A	> 450-600 kWh	> 550-650kWh	> 800-950 kWh	> 1000-1200 kWh	> 1250-1450 kWh
B	> 600-700 kWh	> 650-800 kWh	> 950- 1200 kWh	> 1200-1500 kWh	> 1450-1900 kWh
C	> 700-950 kWh	> 800-1100 kWh	> 1200-1700 kWh	> 1500-2000 kWh	> 1900-2600 kWh
D	> 950-1200 kWh	> 1100-1400 kWh	> 1700-2200 kWh	> 2000-3000 kWh	> 2600-4000 kWh
E	> 1200 kWh	> 1400 kWh	> 2200 kWh	> 3000 kWh	> 4000 kWh

**ME: Minimal Efficiency

Explanation of descriptions

KA PE 40/55-48

- KA – filter type (filter cell)
- PE – type of filter medium (synthetics - polyester)
- 40 – filter class G4
- 55 – dimensions (592x592)
- 48 – frame depth (48 mm)

FV PP 85/25-360/4

- FV – filter type (bag filter)
- PE – type of filter medium (synthetics - polypropylene)
- 85 – filter class F7
- 25 – dimensions (287x592)
- 360 – pocket depth (360 mm)
- 4 – number of pockets

FILTER MEDIA

ECOFIL FM PE 20 - 40

Applications

Primary filtration for air treatment units.

Advantages

- Self cutting service
- Low pressure drop
- High dust holding capacity
- Progressive structure

General features

- **Type:** Media roll or cut pads
- **Filter class ISO 16890:** Coarse 40 - 60%
- **Filter class EN779:2012:** G2–G4
- **Final pressure drop:** 250 Pa
- **Humidity:** 100% RH
- **Temperature:** 120 °C

Code	Description	EN779:2012	ISO 16890	Filter medium	Width (mm)	Thickness (mm)	Weight (g/m²)
650106	FM PE 20 0514	G2	Coarse 40%	Synthetic	2000	5,5	100
650204	FM PE 30 2020B	G3	Coarse 50%	Synthetic	2000	20	200
650114	FM PE 40 1525	G4	Coarse 60%	Synthetic	2000	9	150
650202	FM PE 40 2040	G4	Coarse 60%	Synthetic	2000	20	200

Other dimensions are available on request.

FILTER MEDIA

ECOFIL Paintstop 80/Glass 300

Applications

Primary filtration for air treatment units.

Advantages

- Self cutting service
- Low pressure drop
- High dust holding capacity
- Progressive structure

General features

- **Type:** Media roll or cut pads
- **Filter class EN779:2012:** G2–G4

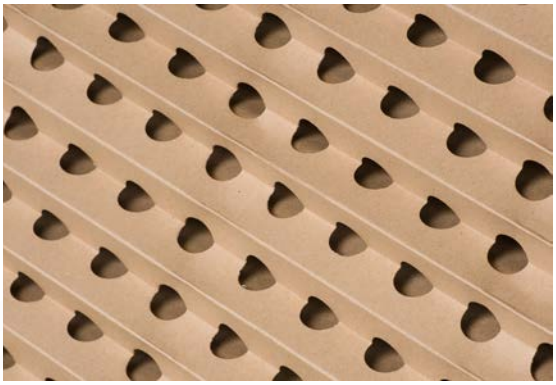
Code	Description	EN779:2012	ISO 16890	Filter medium	Width (mm)	Thickness (mm)	Weight (g/m²)
650305	FM GL 80	G2	Glass	1000	80	120	250
650307	FM GL 300	G4	Glass	2000	50	300	210

Other dimensions are available on request.

FILTER MEDIA
ECOFIL PPF

Applications

For all paint types.



Advantages

- Self cutting service
- Low pressure drop
- High holding capacity
- High filtration efficiency
- Ecological product

General features

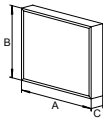
- **Humidity:** 100% RH
- **Temperature:** 80 °C

Code	Description	EN779:2012	ISO 16890	Filter medium	Width (mm)	Thickness (mm)	Weight (g/m²)
600401	PPF	Papir	1000	0,25–1,0	80	256	100

Other dimensions are available on request.

FILTER CELLS

ECOFIL KA PE 40

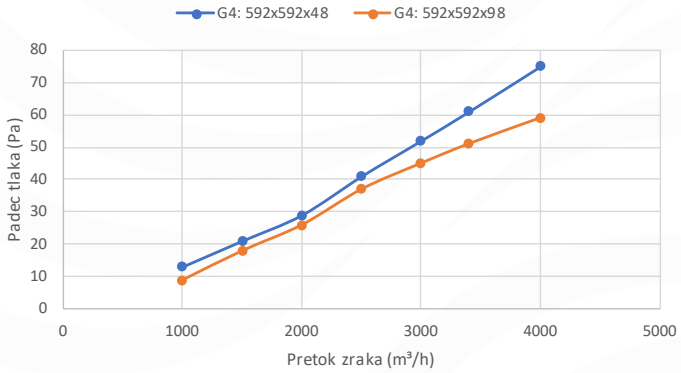


Applications

Primary filtration for air treatment units.

General features

- **Type:** Filter cell
- **Frame:** Galvanised steel (cardboard on request)
- **Filter class ISO 16890:** Coarse 65%
- **Filter class EN779:2012:** G4
- **Recommended final pressure drop:** 250 Pa
- **Final pressure drop:** 250 Pa
- **Humidity:** 100% RH
- **Temperature:** 100°C

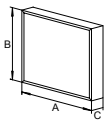


Code	Description	EN779:2012	ISO 16890	Filter medium	Width (mm) A	Height (mm) B	Depth (mm) C	Area (m²)	Airflow (m³/h)	Pressure drop (Pa)
100564	KA PE 40/55-48	G4	Coarse 65%	Synthetic	592	592	48	0,59	3400	61
101021	KA PE 40/45-48	G4	Coarse 65%	Synthetic	490	592	48	0,53	2800	61
100134	KA PE 40/25-48	G4	Coarse 65%	Synthetic	287	592	48	0,30	1700	61
101369	KA PE 40/22-48	G4	Coarse 65%	Synthetic	287	287	48	0,14	800	61
100029	KA PE 40/55-98	G4	Coarse 65%	Synthetic	592	592	98	0,83	3400	51
100811	KA PE 40/45-98	G4	Coarse 65%	Synthetic	490	592	98	0,71	2800	51
100030	KA PE 40/25-98	G4	Coarse 65%	Synthetic	287	592	98	0,47	1700	51
100031	KA PE 40/22-98	G4	Coarse 65%	Synthetic	287	287	98	0,23	800	51

Other dimensions are available on request.

FILTER CELLS

ECOFIL KA-R PE 40



Applications

Primary filtration for air treatment units.

Advantages

- High filtration area
- Low pressure drop
- Variant in cardboard and plastic frame on request

General features

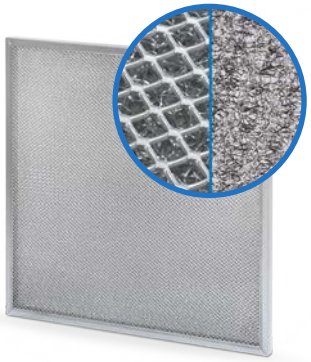
- **Type:** Pleated filter cell
- **Frame:** Galvanised steel
- **Filter class ISO 16890:** Coarse 65%
- **Filter class EN779:2012:** G4
- **Recommended final pressure drop:** 250 Pa
- **Final pressure drop:** 250 Pa
- **Humidity:** 100% RH
- **Temperature:** 100°C

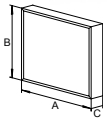
Code	Description	EN779:2012	ISO 16890	Filter medium	Width (mm) A	Height (mm) B	Depth (mm) C	Airflow (m³/h)	Pressure drop (Pa)
104059	KA/R PE 40/55-48	G4	Coarse 65%	Synthetic	592	592	48	3400	50
111864	KA/R PE 40/45-48	G4	Coarse 65%	Synthetic	490	592	48	2800	50
112228	KA/R PE 40/25-48	G4	Coarse 65%	Synthetic	287	592	48	1700	50
121023	KA/R PE 40/22-48	G4	Coarse 65%	Synthetic	287	287	48	800	50
111398	KA/R PE 40/55-98	G4	Coarse 65%	Synthetic	592	592	98	3400	45
111863	KA/R PE 40/45-98	G4	Coarse 65%	Synthetic	490	592	98	2800	45
111397	KA/R PE 40/25-98	G4	Coarse 65%	Synthetic	287	592	98	1700	45
111723	KA/R PE 40/22-98	G4	Coarse 65%	Synthetic	287	287	98	800	45

Other dimensions are available on request.

FILTER CELLS

ECOFIL MF KM





Applications

Metal filter for grease and oil mist separation.

Advantages

- Washable
- Variant in stainless steel (INOX) frame and filter medium on request

General features

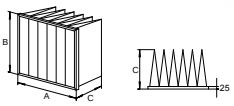
- **Type:** Metal panel filter cell
- **Frame:** Galvanised steel
- **Filter class ISO 16890:** Coarse 30 - 40%
- **Filter class EN779:2012:** G2 - G3
- **Recommended final pressure drop:** 250 Pa
- **Humidity:** 100% RH
- **Temperature:** 200°C

Code	Description	EN779:2012	ISO 16890	Filter medium	Width (mm) A	Height (mm) B	Depth (mm) C	Area (m^2)	Airflow (m^3/h)	Pressure drop (Pa)
108734	KA KM MF 20/55-25	G2	Coarse 30%	Knitted galvanized mesh	592	592	25	PL4	2150	15
110738	KA KM MF 20/25-25	G2	Coarse 30%	Knitted galvanized mesh	287	592	25	PL4	1050	15
125172	KA KM MF 30/55-48	G3	Coarse 40%	Knitted galvanized mesh	592	592	48	PL8	3400	35
136989	KA KM MF 30/25-48	G3	Coarse 40%	Knitted galvanized mesh	287	592	48	PL8	1050	35

Other dimensions are available on request.

BAG FILTERS

ECOFIL FV PE 40



Applications

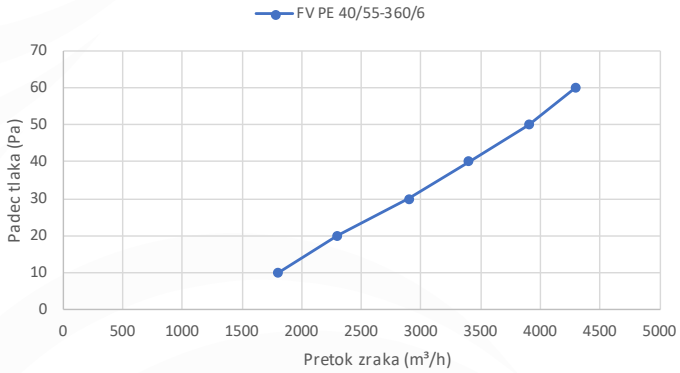
Primary filtration for air treatment units.

Advantages

- Conical sewn or welded pockets
- Low pressure drop
- High dust holding capacity
- Variant in plastic and wooden frame on request

General features

- **Type:** Bag filter
- **Frame:** Galvanised steel
- **Filter class ISO 16890:** Coarse 60%
- **Filter class EN779:2012:** G4
- **Recommended final pressure drop:** 250 Pa
- **Final pressure drop:** 450 Pa
- **Humidity:** 100% RH
- **Temperature:** 70 - 80 °C



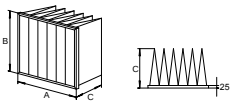
Code	Description	EN779: 2012	ISO 16890	Filter medium	Width (mm) A	Height (mm) B	Depth (mm) C	No. of pockets	Area (m²)	Airflow (m³/h)	Pressure drop (Pa)	ME (%)	Energy consumption (kWh/y)	Energy class
100254	FV PE 40/55-360/6	G4	Coarse 60%	Syn-thetic	592	592	360	6	2,94	3400	45	-	-	-
102596	FV PE 40/54-360/6	G4	Coarse 60%	Syn-thetic	592	490	360	6	2,59	3000	45	-	-	-
101296	FV PE 40/45-360/5	G4	Coarse 60%	Syn-thetic	490	592	360	5	2,45	2800	45	-	-	-
100316	FV PE 40/25-360/3	G4	Coarse 60%	Syn-thetic	287	592	360	3	1,47	1700	45	-	-	-
100282	FV PE 40/22-360/3	G4	Coarse 60%	Syn-thetic	287	287	360	3	0,86	800	45	-	-	-
102458	FV PE 40/52-360/6	G4	Coarse 60%	Syn-thetic	592	287	360	6	1,71	2000	45	-	-	-
100678	FV PE 40/55-500/6	G4	Coarse 60%	Syn-thetic	592	592	500	6	4,08	3400	39	-	-	-
113332	FV PE 40/54-500/6	G4	Coarse 60%	Syn-thetic	592	490	500	6	3,60	3000	39	-	-	-
103284	FV PE 40/45-500/5	G4	Coarse 60%	Syn-thetic	490	592	500	5	3,40	2800	39	-	-	-
103239	FV PE 40/25-500/3	G4	Coarse 60%	Syn-thetic	287	592	500	3	2,04	1700	39	-	-	-
102380	FV PE 40/22-500/3	G4	Coarse 60%	Syn-thetic	287	287	500	3	1,20	800	39	-	-	-
110819	FV PE 40/52-500/6	G4	Coarse 60%	Syn-thetic	592	287	500	6	2,37	2000	39	-	-	-
139990	FV PE 40/55-535/6	G4	Coarse 60%	Syn-thetic	592	592	535	6	4,90	3400	37	-	-	-

144996	FV PE 40/54-535/6	G4	Coarse 60%	Synthetic	592	490	535	6	4,32	3000	37	-	-	-
144987	FV PE 40/45-535/5	G4	Coarse 60%	Synthetic	490	592	535	5	4,08	2800	37	-	-	-
144931	FV PE 40/25-535/3	G4	Coarse 60%	Synthetic	287	592	535	3	2,45	1700	37	-	-	-
144822	FV PE 40/22-535/3	G4	Coarse 60%	Synthetic	287	287	535	3	1,44	800	37	-	-	-
144989	FV PE 40/52-535/6	G4	Coarse 60%	Synthetic	592	287	535	6	2,88	2000	37	-	-	-
100689	FV PE 40/55-600/6	G4	Coarse 60%	Synthetic	592	592	600	6	4,90	3400	35	-	-	-
110074	FV PE 40/54-600/6	G4	Coarse 60%	Synthetic	592	490	600	6	4,32	3000	35	-	-	-
100394	FV PE 40/45-600/5	G4	Coarse 60%	Synthetic	490	592	600	5	4,08	2800	35	-	-	-
101083	FV PE 40/25-600/3	G4	Coarse 60%	Synthetic	287	592	600	3	2,45	1700	35	-	-	-
113051	FV PE 40/22-600/3	G4	Coarse 60%	Synthetic	287	287	600	3	1,44	800	35	-	-	-
100694	FV PE 40/52-600/6	G4	Coarse 60%	Synthetic	592	287	600	6	2,88	2000	35	-	-	-
144998	FV PE 40/55-635/6	G4	Coarse 60%	Synthetic	592	592	635	6	5,19	3400	32	-	-	-
144997	FV PE 40/54-635/6	G4	Coarse 60%	Synthetic	592	490	635	6	4,57	3000	32	-	-	-
144988	FV PE 40/45-635/5	G4	Coarse 60%	Synthetic	490	592	635	5	4,32	2800	32	-	-	-
104693	FV PE 40/25-635/3	G4	Coarse 60%	Synthetic	287	592	635	3	2,6	1700	32	-	-	-
144823	FV PE 40/22-635/3	G4	Coarse 60%	Synthetic	287	287	635	3	1,53	800	32	-	-	-
144990	FV PE 40/52-635/6	G4	Coarse 60%	Synthetic	592	287	635	6	3,05	2000	32	-	-	-

Other dimensions are available on request.

BAG FILTERS

ECOFIL FV H PE/GL 40



Applications

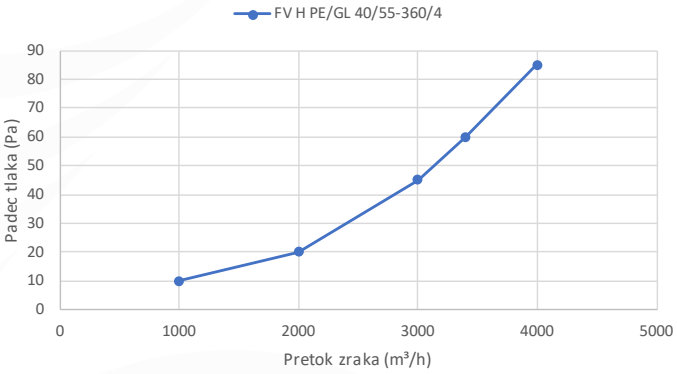
Filtration for kitchen ventilation systems to secrete fat and oil.

Advantages

- Low pressure drop
- Variant in galvanised steel and plastic frame on request

General features

- **Type:** Bag filter
- **Frame:** Wood
- **Filter class EN779:2012:** G4
- **Recommended final pressure drop:** 250 Pa
- **Humidity:** 100% RH
- **Temperature:** 120°C



Code	Description	EN779:2012	Filter medium	Width (mm) A	Height (mm) B	Depth (mm) C	No. of pockets	Area (m²)	Airflow (m³/h)	Pressure drop (Pa)
119414	FV H PE/GL 40/55-360/4	G4	Synthetic + Glass	592	592	360	4	1,7	3400	60
119491	FV H PE/GL 40/45-360/4	G4	Synthetic + Glass	490	592	360	4	1,13	2800	60
126453	FV H PE/GL 40/25-360/2	G4	Synthetic + Glass	287	592	360	2	0,84	1700	60
119549	FV H PE/GL 40/22-360/1	G4	Synthetic + Glass	287	287	360	1	0,41	800	60
119639	FV H PE/GL 40/58-360/6	G4	Synthetic + Glass	592	892	360	6	2,56	5100	60
120244	FV H PE/GL 40/28-360/3	G4	Synthetic + Glass	287	892	360	3	1,26	2550	60

Other dimensions are available on request.

FILTER MEDIA

ECOFIL FM PE 50

Applications

Primary filtration for air treatment units.

Advantages

- Self cutting service
- Low pressure drop
- High dust holding capacity
- Progressive structure

General features

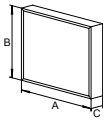
- **Type:** Media roll or cut pads
- **Filter class ISO 16890:** Coarse 95%, ePM10 55%
- **Filter class EN779:2012:** M5
- **Humidity:** 100% RH
- **Temperature:** 120 °C

Code	Description	EN779:2012	ISO 16890	Filter medium	Width (mm)	Thickness (mm)	Weight (g/m²)
650118	FM PE 50 2025M	M5	Coarse 95%	Synthetic	2000	9	150
650201	FM PE 50 VA 600	M5	Coarse 95%	Synthetic	2000	20	550
650701	FM PE 50 PA 560	M5	ePM 55%	Synthetic	2180	25	580

Other dimensions are available on request.

FILTER CELLS

ECOFIL KA PE 50



Applications

Primary filtration for air treatment units.

General features

- **Type:** Filter cell
- **Frame:** Galvanised steel (cardboard on request)
- **Filter class ISO 16890:** Coarse 85%
- **Filter class EN779:2012:** M5
- **Recommended final pressure drop:** 250 Pa
- **Final pressure drop:** 250 Pa
- **Humidity:** 100% RH
- **Temperature:** 100°C

Code	Description	EN779:2012	ISO 16890	Filter medium	Width (mm) A	Height (mm) B	Depth (mm) C	Area (m^2)	Airflow (m^3/h)	Pressure drop (Pa)
101301	KA PE 50/55-48	M5	Coarse 85%	Synthetic	592	592	48	0,59	3400	100
109105	KA PE 50/45-48	M5	Coarse 85%	Synthetic	490	592	48	0,53	2800	100
102144	KA PE 50/25-48	M5	Coarse 85%	Synthetic	287	592	48	0,30	1700	100
101601	KA PE 50/22-48	M5	Coarse 85%	Synthetic	287	287	48	0,14	800	100
100740	KA PE 50/55-98	M5	Coarse 85%	Synthetic	592	592	98	0,83	3400	75
103485	KA PE 50/45-98	M5	Coarse 85%	Synthetic	490	592	98	0,71	2800	75
100741	KA PE 50/25-98	M5	Coarse 85%	Synthetic	287	592	98	0,47	1700	75
101195	KA PE 50/22-98	M5	Coarse 85%	Synthetic	287	287	98	0,23	800	75

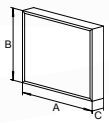
Other dimensions are available on request.

FILTER CELLS

ECOFIL KA-R PE 50-85

Applications

Primary filtration for air treatment units.



Advantages

- High filtration area
- Low pressure drop
- Variant in cardboard and plastic frame on request

General features

- **Type:** Pleated filter cell
- **Frame:** Galvanised steel
- **Filter class ISO 16890:** Coarse 90%, ePM10 50%, ePM10 70%
- **Filter class EN779:2012:** M5 - F7
- **Recommended final pressure drop:** 250 Pa
- **Final pressure drop:** 250 Pa
- **Humidity:** 100% RH
- **Temperature:** 100°C under continuous operation

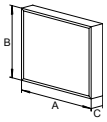
Code	Description	EN779:2012	ISO 16890	Filter medium	Width (mm) A	Height (mm) B	Depth (mm) C	Airflow (m³/h)	Pressure drop (Pa)
119193	KA/R PE 50/55-48	M5	Coarse 90%	Synthetic	592	592	48	3400	55
137642	KA/R PE 50/45-48	M5	Coarse 90%	Synthetic	490	592	48	2800	55
132700	KA/R PE 50/25-48	M5	Coarse 90%	Synthetic	287	592	48	1700	55
116504	KA/R PE 50/22-48	M5	Coarse 90%	Synthetic	287	287	48	800	55
111673	KA/R PE 50/55-98	M5	Coarse 90%	Synthetic	592	592	98	3400	50
117754	KA/R PE 50/45-98	M5	Coarse 90%	Synthetic	490	592	98	2800	50
113985	KA/R PE 50/25-98	M5	Coarse 90%	Synthetic	287	592	98	1700	50
115722	KA/R PE 50/22-98	M5	Coarse 90%	Synthetic	287	287	98	800	50
119193	KA/R PP 70/55-48	M6	ePM10 50%	Synthetic	592	592	48	3400	62
137642	KA/R PP 70/45-48	M6	ePM10 50%	Synthetic	490	592	48	2800	62
132700	KA/R PP 70/25-48	M6	ePM10 50%	Synthetic	287	592	48	1700	62
116504	KA/R PP 70/22-48	M6	ePM10 50%	Synthetic	287	287	48	800	62
111673	KA/R PP 70/55-98	M6	ePM10 50%	Synthetic	592	592	98	3400	55
117754	KA/R PP 70/45-98	M6	ePM10 50%	Synthetic	490	592	98	2800	55
113985	KA/R PP 70/25-98	M6	ePM10 50%	Synthetic	287	592	98	1700	55

115722	KA/R PP 70/22-98	M6	ePM10 50%	Synthetic	287	287	98	800	55
144584	KA/R PP 85/55-48	F7	ePM10 70%	Synthetic	592	592	48	3400	65
144585	KA/R PP 85/45-48	F7	ePM10 70%	Synthetic	490	592	48	2800	65
144586	KA/R PP 85/25-48	F7	ePM10 70%	Synthetic	287	592	48	1700	65
144587	KA/R PP 85/22-48	F7	ePM10 70%	Synthetic	287	287	48	800	65
144588	KA/R PP 85/55-98	F7	ePM10 70%	Synthetic	592	592	98	3400	60
144589	KA/R PP 85/45-98	F7	ePM10 70%	Synthetic	490	592	98	2800	60
142264	KA/R PP 85/25-98	F7	ePM10 70%	Synthetic	287	592	98	1700	60
144590	KA/R PP 85/22-98	F7	ePM10 70%	Synthetic	287	287	98	800	60

Other dimensions are available on request.

FILTER CELLS

ECOFIL PP MP 50-95



Applications

Filtration for air treatment units.

Advantages

- High efficiency
- High filtration area
- Variant in galvanised steel and cardboard on request
- Progressives Filtermedium Design mit integrierten feinen Fasern für hohe mechanische Effizienz
- Excellent dust holding capacity

General features

- **Type:** Mini pleat Filter cell
- **Frame:** Plastic
- **Filter class ISO 16890:** ePM10 55%, ePM2,5 65%, ePM1 80%
- **Filter class EN779:2012:** M5 - F9
- **Separators:** Hot-melt
- **Recommended final pressure drop:** 350 Pa
- **Final pressure drop:** 450 Pa
- **Humidity:** 100% RH
- **Temperature:** 100°C

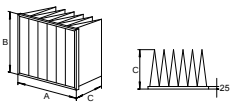
Code	Description	EN779:2012	ISO 16890	Filter medium	Width (mm) A	Height (mm) B	Depth (mm) C	Area (m^2)	Airflow (m^3/h)	Pressure drop (Pa)
131447	KA PP MP 50/55-48	M5	ePM10 55%	Polypro-pylene	592	592	48	4,64	3400	85
144429	KA PP MP 50/45-48	M5	ePM10 55%	Polypro-pylene	490	592	48	3,84	2800	85
127995	KA PP MP 50/25-48	M5	ePM10 55%	Polypro-pylene	287	592	48	2,25	1700	85
116503	KA PP MP 50/22-48	M5	ePM10 55%	Polypro-pylene	287	287	48	1,09	800	85
125985	KA PP MP 50/55-96	M5	ePM10 55%	Polypro-pylene	592	592	96	9,69	3400	65
134323	KA PP MP 50/45-96	M5	ePM10 55%	Polypro-pylene	490	592	96	8,02	2800	65
125986	KA PP MP 50/25-96	M5	ePM10 55%	Polypro-pylene	287	592	96	4,70	1700	65
129970	KA PP MP 50/22-96	M5	ePM10 55%	Polypro-pylene	287	287	96	2,27	800	65
128445	KA PP MP 85/55-48	F7	ePM2,5 65%	Polypro-pylene	592	592	48	4,64	3400	120
132971	KA PP MP 85/45-48	F7	ePM2,5 65%	Polypro-pylene	490	592	48	3,84	2800	120
128446	KA PP MP 85/25-48	F7	ePM2,5 65%	Polypro-pylene	287	592	48	2,25	1700	120
116503	KA PP MP 85/22-48	F7	ePM2,5 65%	Polypro-pylene	287	287	48	1,09	800	120

116068	KA PP MP 85/55-96	F7	ePM2,5 65%	Polypro-pylene	592	592	96	9,69	3400	104
122600	KA PP MP 85/45-96	F7	ePM2,5 65%	Polypro-pylene	490	592	96	8,02	2800	104
122729	KA PP MP 85/25-96	F7	ePM2,5 65%	Polypro-pylene	287	592	96	4,70	1700	104
122729	KA PP MP 85/22-96	F7	ePM2,5 65%	Polypro-pylene	287	287	96	2,27	800	104
127316	KA PP MP 95/55-48	F9	ePM1 80%	Polypro-pylene	592	592	48	4,64	3400	225
144430	KA PP MP 95/45-48	F9	ePM1 80%	Polypro-pylene	490	592	48	3,84	2800	225
132244	KA PP MP 95/25-48	F9	ePM1 80%	Polypro-pylene	287	592	48	2,25	1700	225
133057	KA PP MP 95/22-48	F9	ePM1 80%	Polypro-pylene	287	287	48	1,09	800	225
116548	KA PP MP 95/55-96	F9	ePM1 80%	Polypro-pylene	592	592	96	9,69	3400	188
144425	KA PP MP 95/45-96	F9	ePM1 80%	Polypro-pylene	490	592	96	8,02	2800	188
120175	KA PP MP 95/25-96	F9	ePM1 80%	Polypro-pylene	287	592	96	4,70	1700	188
133706	KA PP MP 95/22-96	F9	ePM1 80%	Polypro-pylene	287	287	96	2,27	800	188

Other dimensions are available on request.

BAG FILTERS

ECOFIL FV PE 50



Applications

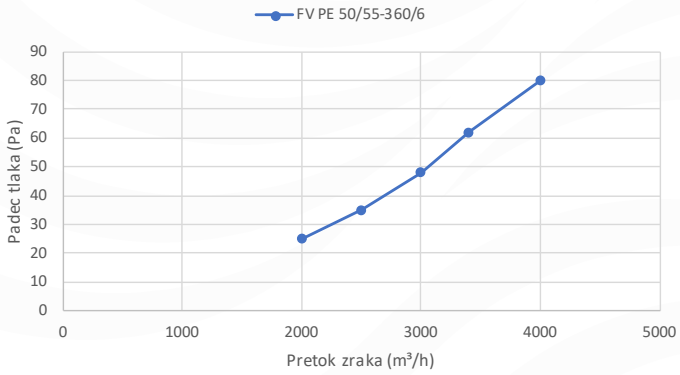
Primary filtration for air treatment units.

Advantages

- Conical sewn or welded pockets
- Low pressure drop
- Low energy use
- High dust holding capacity
- Variant in plastic and wooden frame on request

General features

- **Type:** Bag filter
- **Frame:** Galvanised steel
- **Filter class ISO 16890:** Coarse 85%
- **Filter class EN779:2012:** M5
- **Recommended final pressure drop:** 250 Pa
- **Final pressure drop:** 450 Pa
- **Humidity:** 100% RH
- **Temperature:** 70–80 °C



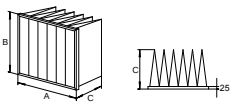
Code	Description	EN779: 2012	ISO 16890	Filter medium	Width (mm) A	Height (mm) B	Depth (mm) C	No. of pockets	Area (m²)	Airflow (m³/h)	Pressure drop (Pa)	ME (%)	Energy consumption (kWh/y)	Energy class
100224	FV PE 50/55-360/6	M5	Coarse 85 %	Syn-thetic	592	592	360	6	2,94	3400	62	6,6	1600	E
107256	FV PE 50/54-360/6	M5	Coarse 85 %	Syn-thetic	592	490	360	6	2,59	3000	62	-	-	-
101799	FV PE 50/45-360/5	M5	Coarse 85 %	Syn-thetic	490	592	360	5	2,45	2800	62	-	-	-
101058	FV PE 50/25-360/3	M5	Coarse 85 %	Syn-thetic	287	592	360	3	1,47	1700	62	-	-	-
101054	FV PE 50/22-360/3	M5	Coarse 85 %	Syn-thetic	287	287	360	3	0,86	800	62	-	-46	-
106686	FV PE 50/52-360/6	M5	Coarse 85 %	Syn-thetic	592	287	360	6	1,73	1700	62	-	-	-
100389	FV PE 50/55-500/6	M5	Coarse 85 %	Syn-thetic	592	592	500	6	4,08	3400	55	6,6	870	C
102348	FV PE 50/54-500/6	M5	Coarse 85 %	Syn-thetic	592	490	500	6	3,60	3000	55	-	-	-
101257	FV PE 50/45-500/5	M5	Coarse 85 %	Syn-thetic	490	592	500	5	3,40	2800	55	-	-	-
101255	FV PE 50/25-500/3	M5	Coarse 85 %	Syn-thetic	287	592	500	3	2,04	1700	55	-	-	-
101450	FV PE 50/22-500/3	M5	Coarse 85 %	Syn-thetic	287	287	500	3	1,20	800	55	-	-	-
104549	FV PE 50/52-500/6	M5	Coarse 85 %	Syn-thetic	592	287	500	6	2,40	2000	55	-	-	-
113597	FV PE 50/55-535/6	M5	Coarse 85 %	Syn-thetic	592	592	535	6	4,37	3400	53	6,6	960	D

144984	FV PE 50/54-535/6	M5	Coarse 85 %	Syn-thetic	592	490	535	6	3,85	3000	53	-	-	-
115597	FV PE 50/45-535/5	M5	Coarse 85 %	Syn-thetic	490	592	535	5	3,64	2800	53	-	-	-
124885	FV PE 50/25-535/3	M5	Coarse 85 %	Syn-thetic	287	592	535	3	2,18	1700	53	-	-	-
113598	FV PE 50/22-535/3	M5	Coarse 85 %	Syn-thetic	287	287	535	3	1,28	800	53	-	-	-
124886	FV PE 50/52-535/6	M5	Coarse 85 %	Syn-thetic	592	287	535	6	2,57	2000	53	-	-	-
100324	FV PE 50/55-600/6	M5	Coarse 85 %	Syn-thetic	592	592	600	6	4,90	3400	50	6,6	815	C
103869	FV PE 50/54-600/6	M5	Coarse 85 %	Syn-thetic	592	490	600	6	4,32	3000	50	-	-	-
103446	FV PE 50/45-600/5	M5	Coarse 85 %	Syn-thetic	490	592	600	5	4,08	2800	50	-	-	-
101414	FV PE 50/25-600/3	M5	Coarse 85 %	Syn-thetic	287	592	600	3	2,45	1700	50	-	-	-
100187	FV PE 50/22-600/3	M5	Coarse 85 %	Syn-thetic	287	287	600	3	1,44	800	50	-	-	-
100887	FV PE 50/52-600/6	M5	Coarse 85 %	Syn-thetic	592	287	600	6	2,88	1700	50	-	-	-
106136	FV PE 50/55-635/6	M5	Coarse 85 %	Syn-thetic	592	592	635	6	5,18	3400	48	6,6	750	C
110164	FV PE 50/54-635/6	M5	Coarse 85 %	Syn-thetic	592	490	635	6	4,57	3000	48	-	-	-
102315	FV PE 50/45-635/5	M5	Coarse 85 %	Syn-thetic	490	592	635	5	4,32	2800	48	-	-	-
106137	FV PE 50/25-635/3	M5	Coarse 85 %	Syn-thetic	287	592	635	3	2,59	1700	48	-	-	-
106144	FV PE 50/22-635/3	M5	Coarse 85 %	Syn-thetic	287	287	635	3	1,52	800	48	-	-	-
144979	FV PE 50/52-635/6	M5	Coarse 85 %	Syn-thetic	592	287	635	6	3,05	2000	48	-	-	-

Other dimensions are available on request.

BAG FILTERS

ECOFIL FV PP 70



Applications

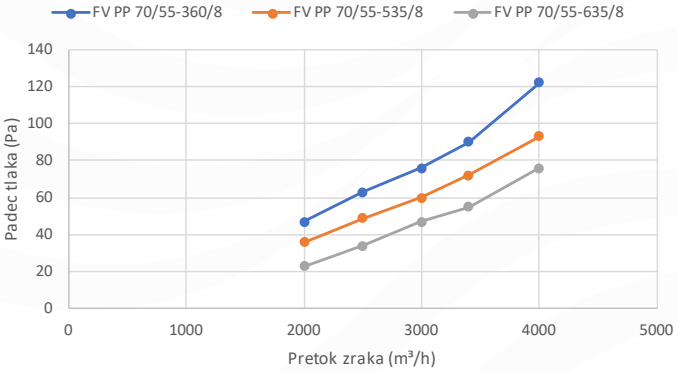
Filtration for air treatment units.

Advantages

- Conical sewn or welded pockets
- Low pressure drop
- Low energy use
- High dust holding capacity
- Variant in plastic and wooden frame on request

General features

- **Type:** Bag filter
- **Frame:** Galvanised steel
- **Filter class ISO 16890:** ePM10 65%
- **Filter class EN779:2012:** M6
- **Recommended final pressure drop:** 250 Pa
- **Final pressure drop:** 450 Pa
- **Humidity:** 100% RH
- **Temperature:** 70–80 °C



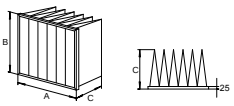
Code	Description	EN779: 2012	ISO 16890	Filter medium	Width (mm) A	Height (mm) B	Depth (mm) C	No. of pockets	Area (m²)	Airflow (m³/h)	Pressure drop (Pa)	ME (%)	Energy consumption (kWh/y)	Energy class
100218	FV PP 70/55-360/8	M6	ePM10 65%	Syn-thetic	592	592	360	8	3,92	3400	90	23	1250	E
116113	FV PP 70/54-360/8	M6	ePM10 65%	Syn-thetic	592	490	360	8	3,31	2800	90	-	-	-
100303	FV PP 70/45-360/6	M6	ePM10 65%	Syn-thetic	490	592	360	6	2,94	2600	90	-	-	-
100301	FV PP 70/25-360/4	M6	ePM10 65%	Syn-thetic	287	592	360	4	1,96	1700	90	-	-	-
109296	FV PP 70/22-360/4	M6	ePM10 65%	Syn-thetic	287	287	360	4	1,07	800	90	-	-	-
115262	FV PP 70/52-360/8	M6	ePM10 65%	Syn-thetic	592	287	360	8	2,14	1850	90	-	-	-
110578	FV PP 70/58-360/8	M6	ePM10 65%	Syn-thetic	592	892	360	8	5,65	5000	90	-	-	-
145246	FV PP 70/48-360/6	M6	ePM10 65%	Syn-thetic	490	892	360	6	4,23	3600	90	-	-	-
110579	FV PP 70/28-360/4	M6	ePM10 65%	Syn-thetic	287	892	360	4	2,82	2500	90	-	-	-
104681	FV PP 70/55-500/8	M6	ePM10 65%	Syn-thetic	592	592	500	8	5,44	3400	80	23	1200	D
115074	FV PP 70/54-500/8	M6	ePM10 65%	Syn-thetic	592	490	500	8	4,59	2800	80	-	-	-
114160	FV PP 70/45-500/6	M6	ePM10 65%	Syn-thetic	490	592	500	6	4,08	2600	80	-	-	-
102667	FV PP 70/25-500/4	M6	ePM10 65%	Syn-thetic	287	592	500	4	2,72	1700	80	-	-	-

111596	FV PP 70/22-500/4	M6	ePM10 65%	Synthetic	287	287	500	4	1,48	800	80	-	-	-
104682	FV PP 70/52-500/8	M6	ePM10 65%	Synthetic	592	287	500	8	2,97	1850	80	-	-	-
119652	FV PP 70/58-500/8	M6	ePM10 65%	Synthetic	592	892	500	8	7,84	5000	80	-	-	-
116512	FV PP 70/48-500/6	M6	ePM10 65%	Synthetic	490	892	500	6	5,88	3600	80	-	-	-
121129	FV PP 70/28-500/4	M6	ePM10 65%	Synthetic	287	892	500	4	3,92	2500	80	-	-	-
101536	FV PP 70/55-535/8	M6	ePM10 65%	Synthetic	592	592	535	8	5,82	3400	72	23	1200	D
105608	FV PP 70/54-535/8	M6	ePM10 65%	Synthetic	592	490	535	8	4,91	2800	72	-	-	-
145240	FV PP 70/45-535/6	M6	ePM10 65%	Synthetic	490	592	535	6	4,37	2600	72	-	-	-
104141	FV PP 70/25-535/4	M6	ePM10 65%	Synthetic	287	592	535	4	2,91	1700	72	-	-	-
139888	FV PP 70/22-535/4	M6	ePM10 65%	Synthetic	287	287	535	4	1,58	800	72	-	-	-
116376	FV PP 70/52-535/8	M6	ePM10 65%	Synthetic	592	287	535	8	3,18	1850	72	-	-	-
145241	FV PP 70/58-535/8	M6	ePM10 65%	Synthetic	592	892	535	8	8,39	5000	72	-	-	-
145278	FV PP 70/48-535/6	M6	ePM10 65%	Synthetic	490	892	535	6	6,29	3600	72	-	-	-
145245	FV PP 70/28-535/4	M6	ePM10 65%	Synthetic	287	892	535	4	4,19	2500	72	-	-	-
100422	FV PP 70/55-600/8	M6	ePM10 65%	Synthetic	592	592	600	8	6,53	3400	62	23	1300	E
116987	FV PP 70/54-600/8	M6	ePM10 65%	Synthetic	592	490	600	8	5,51	2800	62	-	-	-
100299	FV PP 70/45-600/6	M6	ePM10 65%	Synthetic	490	592	600	6	4,90	2600	62	-	-	-
100090	FV PP 70/25-600/4	M6	ePM10 65%	Synthetic	287	592	600	4	3,26	1700	62	-	-	-
100188	FV PP 70/22-600/4	M6	ePM10 65%	Synthetic	287	287	600	4	1,78	800	62	-	-	-
100421	FV PP 70/52-600/8	M6	ePM10 65%	Synthetic	592	287	600	8	3,56	1850	62	-	-	-
102435	FV PP 70/58-600/8	M6	ePM10 65%	Synthetic	592	892	600	8	9,41	5000	62	-	-	-
145280	FV PP 70/48-600/6	M6	ePM10 65%	Synthetic	490	892	600	6	7,06	3600	62	-	-	-
100242	FV PP 70/28-600/4	M6	ePM10 65%	Synthetic	287	892	600	4	4,70	2500	62	-	-	-
102110	FV PP 70/55-635/8	M6	ePM10 65%	Synthetic	592	592	635	8	6,91	3400	55	-	-	-
115076	FV PP 70/54-635/8	M6	ePM10 65%	Synthetic	592	490	635	8	5,83	2800	55	-	-	-
105853	FV PP 70/45-635/6	M6	ePM10 65%	Synthetic	490	592	635	6	5,18	2600	55	-	-	-
102111	FV PP 70/25-635/4	M6	ePM10 65%	Synthetic	287	592	635	4	3,45	1700	55	-	-	-
102112	FV PP 70/22-635/4	M6	ePM10 65%	Synthetic	287	287	635	4	1,88	800	55	-	-	-
110457	FV PP 70/52-635/8	M6	ePM10 65%	Synthetic	592	287	635	8	3,77	1850	55	-	-	-
129228	FV PP 70/58-635/8	M6	ePM10 65%	Synthetic	592	892	635	8	9,96	5000	55	-	-	-
145281	FV PP 70/48-635/6	M6	ePM10 65%	Synthetic	490	892	635	6	7,47	3600	55	-	-	-
129227	FV PP 70/28-635/4	M6	ePM10 65%	Synthetic	287	892	635	4	4,98	2500	55	-	-	-

Other dimensions are available on request.

BAG FILTERS

ECOFIL FV PP 85



Applications

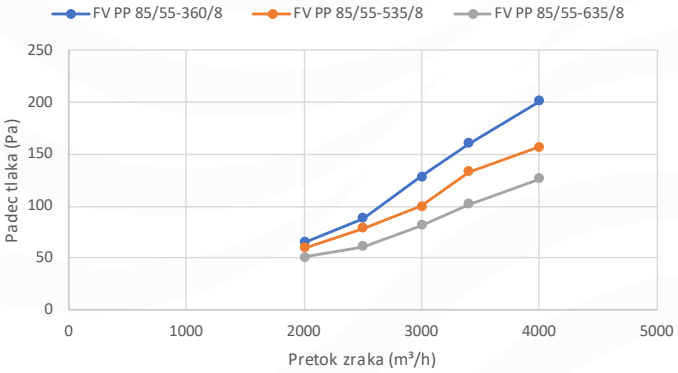
Filtration for air treatment units.

Advantages

- Conical sewn or welded pockets
- Low pressure drop
- Low energy use
- High dust holding capacity
- Variant in plastic and wooden frame on request

General features

- **Type:** Bag filter
- **Frame:** Galvanised steel
- **Filter class ISO 16890:** ePM2,5 70%
- **Filter class EN779:2012:** F7
- **Recommended final pressure drop:** 250 Pa
- **Final pressure drop:** 450 Pa
- **Humidity:** 100% RH
- **Temperature:** 70–80 °C



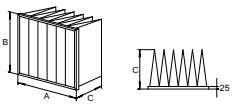
Code	Description	EN779: 2012	ISO 16890	Filter medium	Width (mm) A	Height (mm) B	Depth (mm) C	No. of pockets	Area (m²)	Airflow (m³/h)	Pressure drop (Pa)	ME (%)	Energy consumption (kWh/y)	Energy class
101113	FV PP 85/55-360/8	F7	ePM2,5 65%	Syn-thetic	592	592	360	8	3,92	3400	160	-	-	-
106809	FV PP 85/54-360/8	F7	ePM2,5 65%	Syn-thetic	592	490	360	8	3,31	2800	160	-	-	-
103199	FV PP 85/45-360/6	F7	ePM2,5 65%	Syn-thetic	490	592	360	6	2,94	2600	160	-	-	-
101835	FV PP 85/25-360/4	F7	ePM2,5 65%	Syn-thetic	287	592	360	4	1,96	1700	160	-	-	-
107060	FV PP 85/22-360/4	F7	ePM2,5 6 5%	Syn-thetic	287	287	360	4	1,07	800	160	-	-	-
107650	FV PP 85/52-360/8	F7	ePM2,5 65%	Syn-thetic	592	287	360	8	2,14	1850	160	-	-	-
110580	FV PP 85/58-360/8	F7	ePM2,5 65%	Syn-thetic	592	892	360	8	5,65	5000	160	-	-	-
112207	FV PP 85/48-360/6	F7	ePM2,5 65%	Syn-thetic	490	892	360	6	4,23	3600	160	-	-	-
113763	FV PP 85/28-360/4	F7	ePM2,5 65%	Syn-thetic	287	892	360	4	2,82	2500	160	-	-	-
101484	FV PP 85/55-500/8	F7	ePM2,5 65%	Syn-thetic	592	592	500	8	5,44	3400	145	-	-	-
115143	FV PP 85/54-500/8	F7	ePM2,5 65%	Syn-thetic	592	490	500	8	4,59	2800	145	-	-	-
104332	FV PP 85/45-500/6	F7	ePM2,5 65%	Syn-thetic	490	592	500	6	4,08	2600	145	-	-	-
101811	FV PP 85/25-500/4	F7	ePM2,5 65%	Syn-thetic	287	592	500	4	2,72	1700	145	-	-	-

101814	FV PP 85/22-500/4	F7	ePM2,5 65%	Syn-thetic	287	287	500	4	1,48	800	145	-	-	-
100799	FV PP 85/52-500/8	F7	ePM2,5 65%	Syn-thetic	592	287	500	8	2,97	1850	145	-	-	-
111320	FV PP 85/58-500/8	F7	ePM2,5 65%	Syn-thetic	592	892	500	8	7,84	5000	145	-	-	-
115455	FV PP 85/48-500/6	F7	ePM2,5 65%	Syn-thetic	490	892	500	6	5,88	3600	145	-	-	-
111321	FV PP 85/28-500/4	F7	ePM2,5 65%	Syn-thetic	287	892	500	4	3,92	2500	145	-	-	-
110347	FV PP 85/55-535/8	F7	ePM2,5 65%	Syn-thetic	592	592	535	8	5,82	3400	133	-	-	-
119770	FV PP 85/54-535/8	F7	ePM2,5 65%	Syn-thetic	592	490	535	8	4,91	2800	133	-	-	-
112281	FV PP 85/45-535/6	F7	ePM2,5 65%	Syn-thetic	490	592	535	6	4,37	2600	133	-	-	-
106660	FV PP 85/25-535/4	F7	ePM2,5 65%	Syn-thetic	287	592	535	4	2,91	1700	133	-	-	-
110749	FV PP 85/22-535/4	F7	ePM2,5 65%	Syn-thetic	287	287	535	4	1,58	800	133	-	-	-
119302	FV PP 85/52-535/8	F7	ePM2,5 65%	Syn-thetic	592	287	535	8	3,18	1850	133	-	-	-
145239	FV PP 85/58-535/8	F7	ePM2,5 65%	Syn-thetic	592	892	535	8	8,39	5000	133	-	-	-
145282	FV PP 85/48-535/6	F7	ePM2,5 65%	Syn-thetic	490	892	535	6	6,29	3600	133	-	-	-
145285	FV PP 85/28-535/4	F7	ePM2,5 65%	Syn-thetic	287	892	535	4	4,19	2500	133	-	-	-
100270	FV PP 85/55-600/8	F7	ePM2,5 65%	Syn-thetic	592	592	600	8	6,53	3400	115	35	1400	C
100873	FV PP 85/54-600/8	F7	ePM2,5 65%	Syn-thetic	592	490	600	8	5,51	2800	115	-	-	-
101798	FV PP 85/45-600/6	F7	ePM2,5 65%	Syn-thetic	490	592	600	6	4,90	2600	115	-	-	-
100269	FV PP 85/25-600/4	F7	ePM2,5 65%	Syn-thetic	287	592	600	4	3,26	1700	115	-	-	-
100362	FV PP 85/22-600/4	F7	ePM2,5 65%	Syn-thetic	287	287	600	4	1,78	800	115	-	-	-
100700	FV PP 85/52-600/8	F7	ePM2,5 65%	Syn-thetic	592	287	600	8	3,56	1850	115	-	-	-
110575	FV PP 85/58-600/8	F7	ePM2,5 65%	Syn-thetic	592	892	600	8	9,41	5000	115	-	-	-
145283	FV PP 85/48-600/6	F7	ePM2,5 65%	Syn-thetic	490	892	600	6	7,06	3600	115	-	-	-
110577	FV PP 85/28-600/4	F7	ePM2,5 65%	Syn-thetic	287	892	600	4	4,70	2500	115	-	-	-
100433	FV PP 85/55-635/8	F7	ePM2,5 65%	Syn-thetic	592	592	635	8	6,91	3400	102	-	-	-
144815	FV PP 85/54-635/8	F7	ePM2,5 65%	Syn-thetic	592	490	635	8	5,83	2800	102	-	-	-
122647	FV PP 85/45-635/6	F7	ePM2,5 65%	Syn-thetic	490	592	635	6	5,18	2600	102	-	-	-
101503	FV PP 85/25-635/4	F7	ePM2,5 65%	Syn-thetic	287	592	635	4	3,45	1700	102	-	-	-
101351	FV PP 85/22-635/4	F7	ePM2,5 65%	Syn-thetic	287	287	635	4	1,88	800	102	-	-	-
113603	FV PP 85/52-635/8	F7	ePM2,5 65%	Syn-thetic	592	287	635	8	3,77	1850	102	-	-	-
101505	FV PP 85/58-635/8	F7	ePM2,5 65%	Syn-thetic	592	892	635	8	9,96	5000	102	-	-	-
145284	FV PP 85/48-635/6	F7	ePM2,5 65%	Syn-thetic	490	892	635	6	7,47	3600	102	-	-	-
101504	FV PP 85/28-635/4	F7	ePM2,5 65%	Syn-thetic	287	892	635	4	4,98	2500	102	-	-	-

Other dimensions are available on request.

BAG FILTERS

ECOFIL FV PP 90



Applications

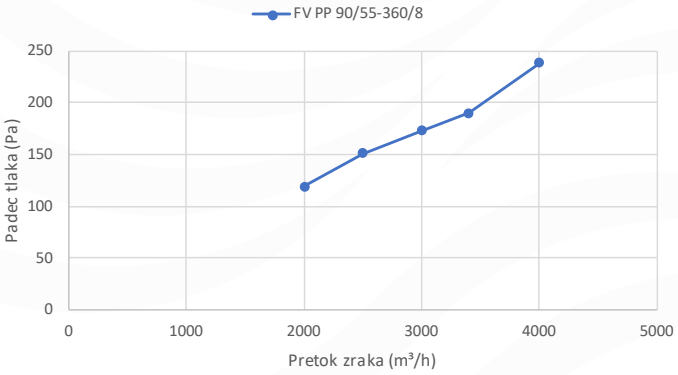
Filtration for air treatment units.

Advantages

- Conical sewn or welded pockets
- Low pressure drop
- Low energy use
- High dust holding capacity
- Variant in plastic and wooden frame on request

General features

- **Type:** Bag filter
- **Frame:** Galvanised steel
- **Filter class ISO 16890:** ePM1 75%
- **Filter class EN779:2012:** F8
- **Recommended final pressure drop:** 250 Pa
- **Final pressure drop:** 450 Pa
- **Humidity:** 100% RH
- **Temperature:** 70–80 °C



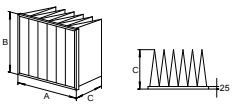
Code	Description	EN779: 2012	ISO 16890	Filter medium	Width (mm) A	Height (mm) B	Depth (mm) C	No. of pockets	Area (m²)	Airflow (m³/h)	Pressure drop (Pa)	ME (%)	Energy consumption (kWh/y)	Energy class
100216	FV PP 90/55-360/8	F8	ePM1 75%	Syn-thetic	592	592	360	8	3,92	3400	190	35	1400	B
116111	FV PP 90/54-360/8	F8	ePM1 75%	Syn-thetic	592	490	360	8	3,31	2800	190	-	-	-
108904	FV PP 90/45-360/6	F8	ePM1 75%	Syn-thetic	490	592	360	6	2,94	2600	190	-	-	-
105334	FV PP 90/25-360/4	F8	ePM1 75%	Syn-thetic	287	592	360	4	1,96	1700	190	-	-	-
123151	FV PP 90/22-360/4	F8	ePM1 75%	Syn-thetic	287	287	360	4	1,07	800	190	-	-	-
114758	FV PP 90/52-360/8	F8	ePM1 75%	Syn-thetic	592	287	360	8	2,14	1850	190	-	-	-
145294	FV PP 90/58-360/8	F8	ePM1 75%	Syn-thetic	592	892	360	8	5,65	5000	190	-	-	-
145320	FV PP 90/48-360/6	F8	ePM1 75%	Syn-thetic	490	892	360	6	4,23	3600	190	-	-	-
145287	FV PP 90/28-360/4	F8	ePM1 75%	Syn-thetic	287	892	360	4	2,82	2500	190	-	-	-
102079	FV PP 90/55-500/8	F8	ePM1 75%	Syn-thetic	592	592	500	8	5,44	3400	165	-	-	-
115159	FV PP 90/54-500/8	F8	ePM1 75%	Syn-thetic	592	490	500	8	4,59	2800	165	-	-	-
131674	FV PP 90/45-500/6	F8	ePM1 75%	Syn-thetic	490	592	500	6	4,08	2600	165	-	-	-
102080	FV PP 90/25-500/4	F8	ePM1 75%	Syn-thetic	287	592	500	4	2,72	1700	165	-	-	-

115157	FV PP 90/22-500/4	F8	ePM1 75%	Syn-thetic	287	287	500	4	1,48	800	165	-	-	-
115155	FV PP 90/52-500/8	F8	ePM1 75%	Syn-thetic	592	287	500	8	2,97	1850	165	-	-	-
145325	FV PP 90/58-500/8	F8	ePM1 75%	Syn-thetic	592	892	500	8	7,84	5000	165	-	-	-
145329	FV PP 90/48-500/6	F8	ePM1 75%	Syn-thetic	490	892	500	6	5,88	3600	165	-	-	-
145288	FV PP 90/28-500/4	F8	ePM1 75%	Syn-thetic	287	892	500	4	3,92	2500	165	-	-	-
114953	FV PP 90/55-535/8	F8	ePM1 75%	Syn-thetic	592	592	535	8	5,82	3400	153	-	-	-
144467	FV PP 90/54-535/8	F8	ePM1 75%	Syn-thetic	592	490	535	8	4,91	2800	153	-	-	-
113747	FV PP 90/45-535/6	F8	ePM1 75%	Syn-thetic	490	592	535	6	4,37	2600	153	-	-	-
109341	FV PP 90/25-535/4	F8	ePM1 75%	Syn-thetic	287	592	535	4	2,91	1700	153	-	-	-
109342	FV PP 90/22-535/4	F8	ePM1 75%	Syn-thetic	287	287	535	4	1,58	800	153	-	-	-
126177	FV PP 90/52-535/8	F8	ePM1 75%	Syn-thetic	592	287	535	8	3,18	1850	153	-	-	-
145326	FV PP 90/58-535/8	F8	ePM1 75%	Syn-thetic	592	892	535	8	8,39	5000	153	-	-	-
145330	FV PP 90/48-535/6	F8	ePM1 75%	Syn-thetic	490	892	535	6	6,29	3600	153	-	-	-
145289	FV PP 90/28-535/4	F8	ePM1 75%	Syn-thetic	287	892	535	4	4,19	2500	153	-	-	-
105103	FV PP 90/55-600/8	F8	ePM1 75%	Syn-thetic	592	592	600	8	6,53	3400	128	-	-	-
114199	FV PP 90/54-600/8	F8	ePM1 75%	Syn-thetic	592	490	600	8	5,51	2800	128	-	-	-
107144	FV PP 90/45-600/6	F8	ePM1 75%	Syn-thetic	490	592	600	6	4,90	2600	128	-	-	-
105340	FV PP 90/25-600/4	F8	ePM1 75%	Syn-thetic	287	592	600	4	3,26	1700	128	-	-	-
100189	FV PP 90/22-600/4	F8	ePM1 75%	Syn-thetic	287	287	600	4	1,78	800	128	-	-	-
105342	FV PP 90/52-600/8	F8	ePM1 75%	Syn-thetic	592	287	600	8	3,56	1850	128	-	-	-
145327	FV PP 90/58-600/8	F8	ePM1 75%	Syn-thetic	592	892	600	8	9,41	5000	128	-	-	-
145331	FV PP 90/48-600/6	F8	ePM1 75%	Syn-thetic	490	892	600	6	7,06	3600	128	-	-	-
100250	FV PP 90/28-600/4	F8	ePM1 75%	Syn-thetic	287	892	600	4	4,70	2500	128	-	-	-
103404	FV PP 90/55-635/8	F8	ePM1 75%	Syn-thetic	592	592	635	8	6,91	3400	120	-	-	-
144466	FV PP 90/54-635/8	F8	ePM1 75%	Syn-thetic	592	490	635	8	5,83	2800	125	-	-	-
113132	FV PP 90/45-635/6	F8	ePM1 75%	Syn-thetic	490	592	635	6	5,18	2600	125	-	-	-
102837	FV PP 90/25-635/4	F8	ePM1 75%	Syn-thetic	287	592	635	4	3,45	1700	125	-	-	-
102838	FV PP 90/22-635/4	F8	ePM1 75%	Syn-thetic	287	287	635	4	1,88	800	125	-	-	-
114024	FV PP 90/52-635/8	F8	ePM1 75%	Syn-thetic	592	287	635	8	3,77	1850	125	-	-	-
145328	FV PP 90/58-635/8	F8	ePM1 75%	Syn-thetic	592	892	635	8	9,96	5000	125	-	-	-
145333	FV PP 90/48-635/6	F8	ePM1 75%	Syn-thetic	490	892	635	6	7,47	3600	125	-	-	-
145290	FV PP 90/28-635/4	F8	ePM1 75%	Syn-thetic	287	892	635	4	4,98	2500	125	-	-	-

Other dimensions are available on request.

BAG FILTERS

ECOFIL FV PP 95



Applications

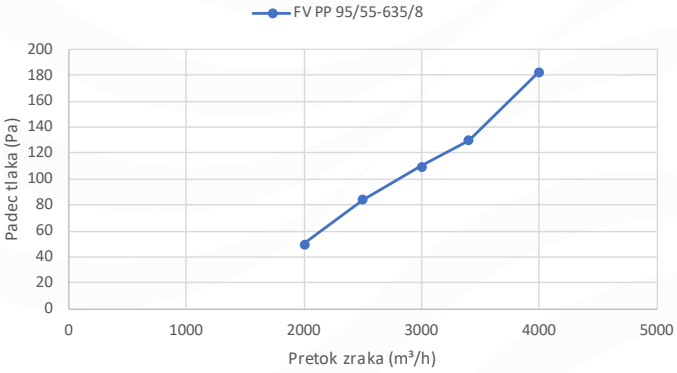
Filtration for air treatment units.

Advantages

- Conical sewn or welded pockets
- Low pressure drop
- Low energy use
- High dust holding capacity
- Variant in plastic and wooden frame on request

General features

- **Type:** Bag filter
- **Frame:** Galvanised steel
- **Filter class ISO 16890:** ePM1 80%
- **Filter class EN779:2012:** F9
- **Recommended final pressure drop:** 250 Pa
- **Final pressure drop:** 450 Pa
- **Humidity:** 100% RH
- **Temperature:** 70 - 80 °C under continuous operation



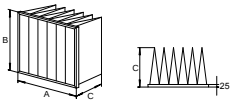
Code	Description	EN779: 2012	ISO 16890	Filter medium	Width (mm) A	Height (mm) B	Depth (mm) C	No. of pockets	Area (m²)	Airflow (m³/h)	Pressure drop (Pa)	ME (%)	Energy consumption (kWh/y)	Energy class
103095	FV PP 95/55-360/8	F9	ePM1 80%	Syn-thetic	592	592	360	8	3,92	3400	205	-	-	-
135324	FV PP 95/54-360/8	F9	ePM1 80%	Syn-thetic	592	490	360	8	3,31	2800	205	-	-	-
135308	FV PP 95/45-360/6	F9	ePM1 80%	Syn-thetic	490	592	360	6	2,94	2600	205	-	-	-
103094	FV PP 95/25-360/4	F9	ePM1 80%	Syn-thetic	287	592	360	4	1,96	1700	205	-	-	-
109816	FV PP 95/22-360/4	F9	ePM1 80%	Syn-thetic	287	287	360	4	1,07	800	205	-	-	-
116623	FV PP 95/52-360/8	F9	ePM1 80%	Syn-thetic	592	287	360	8	2,14	1850	205	-	-	-
145291	FV PP 95/58-360/8	F9	ePM1 80%	Syn-thetic	592	892	360	8	5,65	5000	205	-	-	-
145314	FV PP 95/48-360/6	F9	ePM1 80%	Syn-thetic	490	892	360	6	4,23	3600	205	-	-	-
145295	FV PP 95/28-360/4	F9	ePM1 80%	Syn-thetic	287	892	360	4	2,82	2500	205	-	-	-
100458	FV PP 95/55-500/8	F9	ePM1 80%	Syn-thetic	592	592	500	8	5,44	3400	180	-	-	-
112340	FV PP 95/54-500/8	F9	ePM1 80%	Syn-thetic	592	490	500	8	4,59	2800	180	-	-	-
133935	FV PP 95/45-500/6	F9	ePM1 80%	Syn-thetic	490	592	500	6	4,08	2600	180	-	-	-
101254	FV PP 95/25-500/4	F9	ePM1 80%	Syn-thetic	287	592	500	4	2,72	1700	180	-	-	-

101256	FV PP 95/22-500/4	F9	ePM1 80%	Syn-thetic	287	287	500	4	1,48	800	180	-	-	-
115868	FV PP 95/52-500/8	F9	ePM1 80%	Syn-thetic	592	287	500	8	2,97	1850	180	-	-	-
145291	FV PP 95/58-500/8	F9	ePM1 80%	Syn-thetic	592	892	500	8	7,84	5000	180	-	-	-
145315	FV PP 95/48-500/6	F9	ePM1 80%	Syn-thetic	490	892	500	6	5,88	3600	180	-	-	-
145296	FV PP 95/28-500/4	F9	ePM1 80%	Syn-thetic	287	892	500	4	3,92	2500	180	-	-	-
114953	FV PP 95/55-535/8	F9	ePM1 80%	Syn-thetic	592	592	535	8	5,82	3400	165	-	-	-
144467	FV PP 95/54-535/8	F9	ePM1 80%	Syn-thetic	592	490	535	8	4,91	2800	165	-	-	-
113747	FV PP 95/45-535/6	F9	ePM1 80%	Syn-thetic	490	592	535	6	4,37	2600	165	-	-	-
109341	FV PP 95/25-535/4	F9	ePM1 80%	Syn-thetic	287	592	535	4	2,91	1700	165	-	-	-
109342	FV PP 95/22-535/4	F9	ePM1 80%	Syn-thetic	287	287	535	4	1,58	800	165	-	-	-
126177	FV PP 95/52-535/8	F9	ePM1 80%	Syn-thetic	592	287	535	8	3,18	1850	165	-	-	-
145293	FV PP 95/58-535/8	F9	ePM1 80%	Syn-thetic	592	892	535	8	8,39	5000	165	-	-	-
145316	FV PP 95/48-535/6	F9	ePM1 80%	Syn-thetic	490	892	535	6	6,29	3600	165	-	-	-
145297	FV PP 95/28-535/4	F9	ePM1 80%	Syn-thetic	287	892	535	4	4,19	2500	165	-	-	-
100872	FV PP 95/55-600/8	F9	ePM1 80%	Syn-thetic	592	592	600	8	6,53	3400	140	-	-	-
100797	FV PP 95/54-600/8	F9	ePM1 80%	Syn-thetic	592	490	600	8	5,51	2800	140	-	-	-
107414	FV PP 95/45-600/6	F9	ePM1 80%	Syn-thetic	490	592	600	6	4,90	2600	140	-	-	-
101402	FV PP 95/25-600/4	F9	ePM1 80%	Syn-thetic	287	592	600	4	3,26	1700	140	-	-	-
100424	FV PP 95/22-600/4	F9	ePM1 80%	Syn-thetic	287	287	600	4	1,78	800	140	-	-	-
101616	FV PP 95/52-600/8	F9	ePM1 80%	Syn-thetic	592	287	600	8	3,56	1850	140	-	-	-
115102	FV PP 95/58-600/8	F9	ePM1 80%	Syn-thetic	592	892	600	8	9,41	5000	140	-	-	-
145317	FV PP 95/48-600/6	F9	ePM1 80%	Syn-thetic	490	892	600	6	7,06	3600	140	-	-	-
100192	FV PP 95/28-600/4	F9	ePM1 80%	Syn-thetic	287	892	600	4	4,70	2500	140	-	-	-
103404	FV PP 95/55-635/8	F9	ePM1 80%	Syn-thetic	592	592	635	8	6,91	3400	130	-	-	-
144466	FV PP 95/54-635/8	F9	ePM1 80%	Syn-thetic	592	490	635	8	5,83	2800	130	-	-	-
113132	FV PP 95/45-635/6	F9	ePM1 80%	Syn-thetic	490	592	635	6	5,18	2600	130	-	-	-
102837	FV PP 95/25-635/4	F9	ePM1 80%	Syn-thetic	287	592	635	4	3,45	1700	130	-	-	-
102838	FV PP 95/22-635/4	F9	ePM1 80%	Syn-thetic	287	287	635	4	1,88	800	130	-	-	-
114024	FV PP 95/52-635/8	F9	ePM1 80%	Syn-thetic	592	287	635	8	3,77	1850	130	-	-	-
145319	FV PP 95/58-635/8	F9	ePM1 80%	Syn-thetic	592	892	635	8	9,96	5000	130	-	-	-
145318	FV PP 95/48-635/6	F9	ePM1 80%	Syn-thetic	490	892	635	6	7,47	3600	130	-	-	-
145310	FV PP 95/28-635/4	F9	ePM1 80%	Syn-thetic	287	892	635	4	4,98	2500	130	-	-	-

Other dimensions are available on request.

BAG FILTERS

ECOFIL FV H PE/GL 50



Applications

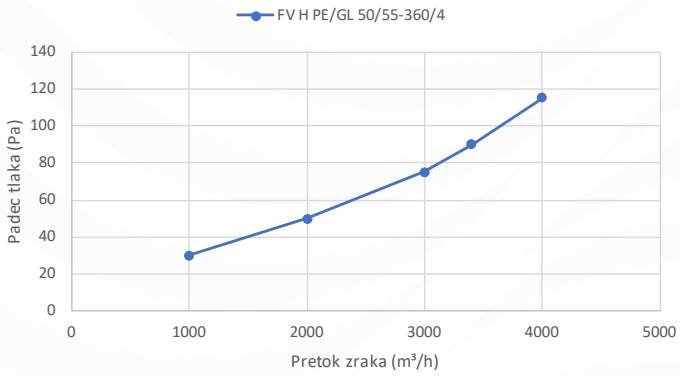
Filtration for kitchen ventilation systems to secrete fat and oil.

Advantages

- Low pressure drop
- Variant in galvanised steel and plastic frame on request

General features

- **Type:** Bag filter
- **Frame:** Wood
- **Filter class EN779:2012:** M5
- **Recommended final pressure drop:** 250 Pa
- **Humidity:** 100% RH
- **Temperature:** 120°C

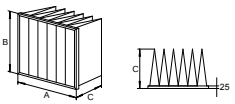


Code	Description	EN779:2012	Filter medium	Width (mm) A	Height (mm) B	Depth (mm) C	No. of pockets	Area (m²)	Airflow (m³/h)	Pressure drop (Pa)
100561	FV H PE/GL 50/55-360/4	M5	Synthetic + Glass	592	592	360	4	1,7	3400	80
101467	FV H PE/GL 50/45-360/4	M5	Synthetic + Glass	490	592	360	4	1,13	2800	80
125391	FV H PE/GL 50/25-360/2	M5	Synthetic + Glass	287	592	360	2	0,84	1700	80
104713	FV H PE/GL 50/22-360/1	M5	Synthetic + Glass	287	287	360	1	0,41	800	80
128553	FV H PE/GL 50/58-360/6	M5	Synthetic + Glass	592	892	360	6	2,56	5100	80
102791	FV H PE/GL 50/28-360/3	M5	Synthetic + Glass	287	892	360	3	1,26	2550	80

Other dimensions are available on request.

BAG FILTERS

ECOFIL FV GL 70



Applications

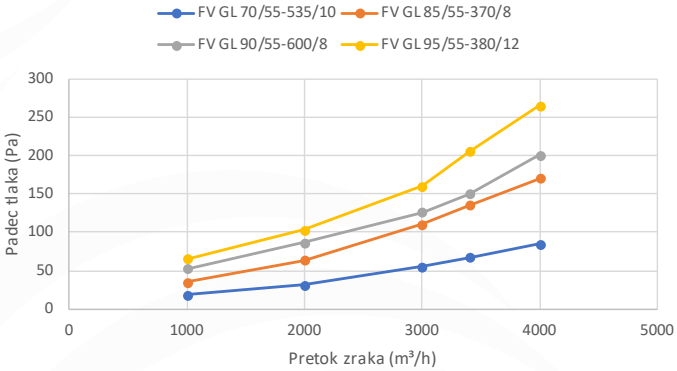
Filtration for air treatment units.

Advantages

- Conical sewn or welded pockets
- Low pressure drop
- Low energy use
- High dust holding capacity
- Variant in plastic and wooden frame on request

General features

- **Type:** Bag filter
- **Frame:** Galvanised steel
- **Filter class ISO 16890:** ePM10 %, ePM1 %, ePM1 %
- **Filter class EN779:2012:** M6 - F9
- **Recommended final pressure drop:** 250 Pa
- **Final pressure drop:** 450 Pa
- **Humidity:** 100% RH
- **Temperature:** 70 - 80 °C



Code	Description	EN779: 2012	ISO 16890	Filter medium	Width (mm) A	Height (mm) B	Depth (mm) C	No. of pockets	Area (m²)	Airflow (m³/h)	Pressure drop (Pa)	ME (%)	Energy consumption (kWh/y)	Energy class
141694	FV GL 70/25-360/4	M6	ePM10 18%	Glass	287	592	360	4	1,96	1700	100	-	-	-
142180	FV GL 85/55-370/8	F7	ePM1 47%	Glass	592	592	370	8	4,03	3400	135	60	2000	D
142181	FV GL 85/25-370/4	F7	ePM1 47%	Glass	287	592	370	4	2,01	1700	135	-	-	-
136356	FV GL 95/55-380/12	F9	ePM1 85%	Glass	592	592	380	12	6,20	3400	210	-	-	-
136440	FV GL 95/55-380/10	F9	ePM1 85%	Glass	592	592	380	10	5,17	3400	220	-	-	-
136245	FV GL 95/55-380/8	F9	ePM1 85%	Glass	592	592	380	8	4,13	3400	225	-	-	-
136455	FV GL 95/25-380/4	F9	ePM1 85%	Glass	287	592	380	4	2,07	1700	225	-	-	-
143189	FV GL 70/55-535/8	M6	ePM10 18%	Glass	592	592	535	8	5,82	3400	80	-	1100	D
141697	FV GL 70/55-535/10	M6	ePM10 18%	Glass	592	592	535	10	7,28	3400	70	-	-	-
138803	FV GL 70/55-600/8	M6	ePM10 18%	Glass	592	592	600	8	6,53	3400	75			
138481	FV GL 90/55-600/8	F8	ePM1 76%	Glass	592	592	600	8	6,53	3400	155	-	-	-
141702	FV GL 85/55-635/8	F7	ePM1 47%	Glass	592	592	635	8	6,91	3400	100	60	1300	B
141270	FV GL 90/55-635/8	F8	ePM1 76%	Glass	592	592	635	8	6,91	3400	150	76	2100	D

138608	FV GL 95/55-635/8	F9	ePM1 85%	Glass	592	592	635	8	6,91	3400	185	-	-	-

Other dimensions are available on request.

ECOTIP
INDUSTRIAL DEDUSTING

Use and purpose

Filters can be use in wood, chemistry, pharmaceutical industry, cement plants, steel works, foundries, incinerators, paint shops, grinders, welding, metalworking ... in short where delicate floating particles and aerosols are present in the airborne working process. This category also includes filters for dust extraction, oil mist removal and all air filters used in air purification in industrial processes in the process part or for the protection of employees and the environment.

Filter cartridges

ECOFIL® pleated products are manufactured from range of non-woven filter media that perform welll in many different filter enviroments. To further enhance the performance of these media, they can be supplied with special chemical dispersions providing oleophobic and hydrophobic properties. Anti-static media are available to give protection against explosion and PTFE laminated surface media are available which allow almost zero emissions. For gas turbine applications we offer blended cellulose pleated products.

We offer different kinds of filter cartridges:

- Cylindrical cartridge
- Bayonet cartridge
- Cartridge with thread
- Panel cartridge
- And many other types

Filter bags

We offer different kinds of filter bags:

- Conical sewn or welded pockets
- Tubular filter bag
- Flat filter bags
- Filter bag with snap ring/steel ring
- Channel filter bags
- Filter bag for silos
- A lot of other type

Filter bags are used in the following productions:

- Chemical industry
- Wood industry
- Steelworks
- Cement industry
- Asphalt plant
- Pharmacy industry
- And many other...

FILTER MATERIALS

PE

	PE/PE 351	PE/PE 401	PE/PE 451	PE/PE 501	PE/PE 501 Si	PE/PE 504 glaze CS17	PE/PE 551 glaze	PE/PE 551 Si	PE/PE 551 CS17
Code	3440	3732	1012	2733	3031	4951	5495	3342	3753
Fibrous layer	(a)	(a)	(a)	(a)	(a)	(a)	(a)	(a)	(a)
Fabric	(a)	(a)	(a)	(a)	(a)	(a)	(a)	(a)	(a)
Weight[I] g/m²	350	400	450	500	500	500	550	550	550
Thickness mm	1,5	1,6	1,7	2	2,1	1,7	2	1,9	1,9
Density g/m³	0,23	0,25	0,26	0,25	0,24	0,29	0,28	0,29	0,29
Permeability[II] @200 Pa	583 (J)	417 (A)	417 (A)	333 (E)	333 (E)	267 (K)	250 (F)	250 (F)	250 (F)
Pore volume	83	82	81	82	83	79	80	79	79
Length tensile strength[III] daN	155	150	150	165	115	175	185	155	165
Cross tensile strength[III] daN	130	150	145	160	130	175	160	165	170
Length elongation at break %	21	21	20	21	18	21	20	20	21
Cross elongation at break %	22	23	26	24	23	23	28	25	28
Continual temp. resistance[IV] °C	150	150	150	150	150	150	150	150	150
Peak temp. resistance[IV] °C	150	150	150	150	150	150	150	150	150
Δ max of dimensions @ 150 °C	<1	<1	<1	<1	<1	<1	<1	<1	<1
Surface design/treatmen	(1) (2)	(1) (2) (7)	(1) (2)	(1) (2) (7)	(1) (2) (9)	(1) (5) (6)	(1) (6)	(1) (2) (7) (9)	(1) (2) (5)

Additional treatments

1. Heat set
2. Singed face side
3. Epitropic fibre admixture
4. Micro pores by fine fibres
5. Full bath oil and water repellent finish for optimal cake releas
6. Glazed face side
7. Available in 200, 210 and 220 cm width
8. PTFE surface coating
9. Full bath anti-adhesive finish
10. Permanent conductive matrix, resistance <106 Ohm (DIN 54345 part 1 and part 5)
11. Full bath PTFE treatment
12. ACU-antistatic with coppers fibres composition-resistivity <103 Ohm (DIN 54345 part 1 and part 5)

Composition materials

a. Polyester
b. Polyacrylonitrile Homopolymer
c. Polyphenylene Sulphide
d. Meta aramid
e. Polymide
f. PTFE
g. Polyacrylonitrile Copolymer
h. Polyamide imide
i. Polypropylene

I. EN ISO 9073-1
II. EN ISO 9237
III. EN ISO 9073-3 / sample 200/50 mm
IV. Chemical gas stream conditions may require a lower continuous operating temperature to be maintained

Permeability

A. 250 l/(dm2 min) pri 200 Pa
B. 75 l/(dm2 min) pri 200 Pa
C. 120 l/(dm2 min) pri 200 Pa
D. 90 l/(dm2 min) pri 200 Pa
E. 200 l/(dm2 min) pri 200 Pa
F. 150 l/(dm2 min) pri 200 Pa
G. 135 l/(dm2 min) pri 200 Pa
H. 100 l/(dm2 min) pri 200 Pa
I. 110 l/(dm2 min) pri 200 Pa
J. 350 l/(dm2 min) pri 200 Pa
K. 160 l/(dm2 min) pri 200 Pa
L. 130 l/(dm2 min) pri 200 Pa
M. 275 l/(dm2 min) pri 200 Pa

FILTER MATERIALS

PE EXCHARGE

	PE/PE 354 glaze ExCharge	PE/PE 401 ExCharge	PE/PE 451 ExCharge	PE/PE 501 ExCharge	PE/PE 551 ExCharge	PE/PE 554 glaze ExCharge	PE/PE 551 glaze
Code	5540	1119	5927	1120	4046	4993	5058
Fibrous layer	(a)	(a)	(a)	(a)	(a)	(a)	(a)
Fabric	(a)	(a)	(a)	(a)	(a)	(a)	(a)
Weight[I] g/m²	350	400	450	500	550	550	550
Thickness mm	1,1	1,6	1,9	1,9	1,9	1,8	1,9
Density g/m³	0,32	0,25	0,24	0,26	0,29	0,31	0,29
Permeability[II] @200 Pa	417 (A)	417 (A)	417 (A)	333 (E)	250 (F)	217 (L)	250 (F)
Pore volume	77	82	83	81	79	78	79
Length tensile strength[III] daN	185	150	185	155	155	155	145
Cross tensile strength[III] daN	130	145	130	145	165	175	170
Length elongation at break %	21	21	22	21	20	21	20
Cross elongation at break %	24	22	23	23	27	28	27
Continual temp. resistance[IV] °C	150	150	150	150	150	150	150
Peak temp. resistance[IV] °C	150	150	150	150	150	150	150
Δ max of dimensions @ 150 °C	<1	<1	<1	<1	<1	<1	<1
Surface design/treatmen	(1) (6) (10) (12)	(1) (2) (10) (12)	(1) (2) (10) (12)	(1) (2) (10) (12)	(1) (2) (10) (12)	(1) (2) (10)	(1) (2) (10)

Additional treatments

1. Heat set
2. Singed face side
3. Epitropic fibre admixture
4. Micro pores by fine fibres
5. Full bath oil and water repellent finish for optimal cake releas
6. Glazed face side
7. Available in 200, 210 and 220 cm width
8. PTFE surface coating
9. Full bath anti-adhesive finish
10. Permanent conductive matrix, resistance <106 Ohm (DIN 54345 part 1 and part 5)
11. Full bath PTFE treatment
12. ACU-antistatic with coppers fibres composition-resistivity <103 Ohm (DIN 54345 part 1 and part 5)

Composition materials

a. Polyester
b. Polyacrylonitrile Homopolymer
c. Polyphenylene Sulphide
d. Meta aramid
e. Polymide
f. PTFE
g. Polyacrylonitrile Copolymer
h. Polyamide imide
i. Polypropylene

I. EN ISO 9073-1
II. EN ISO 9237
III. EN ISO 9073-3 / sample size 200/50 mm
IV. Chemical gas stream conditions may require a lower continuous operating temperature to be maintained

Permeability

A. 250 l/(dm2 min) pri 200 Pa
B. 75 l/(dm2 min) pri 200 Pa
C. 120 l/(dm2 min) pri 200 Pa
D. 90 l/(dm2 min) pri 200 Pa
E. 200 l/(dm2 min) pri 200 Pa
F. 150 l/(dm2 min) pri 200 Pa
G. 135 l/(dm2 min) pri 200 Pa
H. 100 l/(dm2 min) pri 200 Pa
I. 110 l/(dm2 min) pri 200 Pa
J. 350 l/(dm2 min) pri 200 Pa
K. 160 l/(dm2 min) pri 200 Pa
L. 130 l/(dm2 min) pri 200 Pa
M. 275 l/(dm2 min) pri 200 Pa

FILTER MATERIALS

PP

	PP/PP 504	PP/PP 554
Code	3784	2113
Fibrous layer	(i)	(i)
Fabric	(i)	(i)
Weight[I] g/m²	500	550
Thickness mm	2,1	2,2
Density g/m³	0,24	0,25
Permeability[II] @200 Pa	333 (E)	200 (C)
Pore volume	74	73
Length tensile strength[III] daN	185	180
Cross tensile strength[III] daN	165	190
Length elongation at break %	23	22
Cross elongation at break %	24	28
Continual temp. resistance[IV] °C	90	90
Peak temp. resistance[IV] °C	95	95
Δ max of dimensions @ 150 °C	<1	<1
Surface design/treatmen	(1) (2)	(1) (2)

Additional treatments

1. Heat set
2. Singed face side
3. Epitropic fibre admixture
4. Micro pores by fine fibres
5. Full bath oil and water repellent finish for optimal cake releas
6. Glazed face side
7. Available in 200, 210 and 220 cm width
8. PTFE surface coating
9. Full bath anti-adhesive finish
10. Permanent conductive matrix, resistance <106 Ohm (DIN 54345 part 1 and part 5)
11. Full bath PTFE treatment
12. ACU-antistatic with coppers fibres composition-resistivity <103 Ohm (DIN 54345 part 1 and part 5)

Composition materials

a. Polyester
b. Polyacrylonitrile Homopolymer
c. Polyphenylene Sulphide
d. Meta aramid
e. Polymide
f. PTFE
g. Polyacrylonitrile Copolymer
h. Polyamide imide
i. Polypropylene

I. EN ISO 9073-1
II. EN ISO 9237
III. EN ISO 9073-3 / sample size 200/50 mm
IV. Chemical gas stream conditions may require a lower continuous operating temperature to be maintained

Permeability

A. 250 l/(dm2 min) pri 200 Pa
B. 75 l/(dm2 min) pri 200 Pa
C. 120 l/(dm2 min) pri 200 Pa
D. 90 l/(dm2 min) pri 200 Pa
E. 200 l/(dm2 min) pri 200 Pa
F. 150 l/(dm2 min) pri 200 Pa
G. 135 l/(dm2 min) pri 200 Pa
H. 100 l/(dm2 min) pri 200 Pa
I. 110 l/(dm2 min) pri 200 Pa
J. 350 l/(dm2 min) pri 200 Pa
K. 160 l/(dm2 min) pri 200 Pa
L. 130 l/(dm2 min) pri 200 Pa
M. 275 l/(dm2 min) pri 200 Pa

FILTER MATERIALS

AC + DT

	AC/AC 551	DT/DT 501	DT/DT 554 glaze	DT/DT 551 MPS	DT-PE/DT-PE 551 MPS	DT-PE/DT-PE 601
Code	3014	4863	4474	1181	5899	1661
Fibrous layer	(g)	(b)	(b)	(b)	(b)+(a)	(b)+(a)
Fabric	(g)	(b)	(b)	(b)	(b)+(a)	(b)+(a)
Weight[I] g/m²	550	500	550	550	550	600
Thickness mm	2,4	2,5	2,4	2,1	2	2,1
Density g/m³	0,23	0,2	0,23	0,26	0,28	0,29
Permeability[II] @200 Pa	250 (F)	333 (E)	167 (H)	125 (B)	167 (H)	150 (D)
Pore volume	80	83	81	78	78	77
Length tensile strength[III] daN	60	35	100	105	115	105
Cross tensile strength[III] daN	95	115	130	80	155	180
Length elongation at break %	15	10	12	14	18	19
Cross elongation at break %	30	26	26	14	22	23
Continual temp. resistance[IV] °C	115	125	125	125	125	125
Peak temp. resistance[IV] °C	120	140	140	140	140	140
Δ max of dimensions @ 150 °C	<1	<1	<1	<1	<1	<1
Surface design/treatmen	(1) (2)	(1) (2)	(1) (6)	(1) (2) (4)	(1) (2) (4)	(1) (2)

Additional treatments

1. Heat set
2. Singed face side
3. Epitropic fibre admixture
4. Micro pores by fine fibres
5. Full bath oil and water repellent finish for optimal cake releas
6. Glazed face side
7. Available in 200, 210 and 220 cm width
8. PTFE surface coating
9. Full bath anti-adhesive finish
10. Permanent conductive matrix, resistance <106 Ohm (DIN 54345 part 1 and part 5)
11. Full bath PTFE treatment
12. ACU-antistatic with coppers fibres composition-resistivity <103 Ohm (DIN 54345 part 1 and part 5)

Composition materials

a. Polyester
b. Polyacrylonitrile Homopolymer
c. Polyphenylene Sulphide
d. Meta aramid
e. Polymide
f. PTFE
g. Polyacrylonitrile Copolymer
h. Polyamide imide
i. Polypropylene

I. EN ISO 9073-1
II. EN ISO 9237
III. EN ISO 9073-3 / sample size 200/50 mm
IV. Chemical gas stream conditions may require a lower continuous operating temperature to be maintained

Permeability

A. 250 l/(dm2 min) pri 200 Pa
B. 75 l/(dm2 min) pri 200 Pa
C. 120 l/(dm2 min) pri 200 Pa
D. 90 l/(dm2 min) pri 200 Pa
E. 200 l/(dm2 min) pri 200 Pa
F. 150 l/(dm2 min) pri 200 Pa
G. 135 l/(dm2 min) pri 200 Pa
H. 100 l/(dm2 min) pri 200 Pa
I. 110 l/(dm2 min) pri 200 Pa
J. 350 l/(dm2 min) pri 200 Pa
K. 160 l/(dm2 min) pri 200 Pa
L. 130 l/(dm2 min) pri 200 Pa
M. 275 l/(dm2 min) pri 200 Pa

FILTER MATERIALS

PPS

	PPS/PPS 551	PPS/PPS 551 MPS	PPS/PPS 554 CS17	PPS/PPS 554 CS30	PPS/PPS 601
Code	4571	4429	4340	5422	1473
Fibrous layer	(c)	(c)	(c)	(c)	(c)
Fabric	(c)	(c)	(c)	(c)	(c)
Weight[I] g/m²	550	550	550	550	600
Thickness mm	1,8	1,8	1,6	1,7	1,8
Density g/m³	0,31	0,31	0,34	0,32	0,33
Permeability[II] @200 Pa	250 (F)	167 (H)	200 (C)	200 (C)	200 (C)
Pore volume	77	77	75	77	76
Length tensile strength[III] daN	85	90	85	65	85
Cross tensile strength[III] daN	155	140	135	105	165
Length elongation at break %	23	22	23	23	22
Cross elongation at break %	37	28	39	49	40
Continual temp. resistance[IV] °C	190	190	190	190	190
Peak temp. resistance[IV] °C	200	200	200	200	200
Δ max of dimensions @ 150 °C	<1	<1	<1	<1	<1
Surface design/treatmen	(1) (2)	(1) (2) (4)	(1) (5) (6)	(1) (6) (11)	(1) (2)

Additional treatments

1. Heat set
2. Singed face side
3. Epitropic fibre admixture
4. Micro pores by fine fibres
5. Full bath oil and water repellent finish for optimal cake releas
6. Glazed face side
7. Available in 200, 210 and 220 cm width
8. PTFE surface coating
9. Full bath anti-adhesive finish
10. Permanent conductive matrix, resistance <106 Ohm (DIN 54345 part 1 and part 5)
11. Full bath PTFE treatment
12. ACU-antistatic with coppers fibres composition-resistivity <103 Ohm (DIN 54345 part 1 and part 5)

Composition materials

a. Polyester
b. Polyacrylonitrile Homopolymer
c. Polyphenylene Sulphide
d. Meta aramid
e. Polymide
f. PTFE
g. Polyacrylonitrile Copolymer
h. Polyamide imide
i. Polypropylene

I. EN ISO 9073-1
II. EN ISO 9237
III. EN ISO 9073-3 / sample size 200/50 mm
IV. Chemical gas stream conditions may require a lower continuous operating temperature to be maintained

Permeability

A. 250 l/(dm2 min) pri 200 Pa
B. 75 l/(dm2 min) pri 200 Pa
C. 120 l/(dm2 min) pri 200 Pa
D. 90 l/(dm2 min) pri 200 Pa
E. 200 l/(dm2 min) pri 200 Pa
F. 150 l/(dm2 min) pri 200 Pa
G. 135 l/(dm2 min) pri 200 Pa
H. 100 l/(dm2 min) pri 200 Pa
I. 110 l/(dm2 min) pri 200 Pa
J. 350 l/(dm2 min) pri 200 Pa
K. 160 l/(dm2 min) pri 200 Pa
L. 130 l/(dm2 min) pri 200 Pa
M. 275 l/(dm2 min) pri 200 Pa

FILTER MATERIALS

NO

	NO/NO 401	NO/NO 501	NO/NO 501 CS17	NO/NO 551	NO/NO 554 CS17	AsphalTec LPC	AsphalTec HPC
Code	1665	1792	1682	2235	2087	6097	6098
Fibrous layer	(d)	(d)	(d)	(d)	(d)	(h)	(h)
Fabric	(d)	(d)	(d)	(d)	(d)	(d)	(d)
Weight[I] g/m²	400	500	500	550	550	400	500
Thickness mm	2,1	2,5	2,3	2,5	2,3	2,1	2,4
Density g/m³	0,19	0,2	0,22	0,22	0,24	0,19	0,21
Permeability[II] @200 Pa	417 (A)	333 (E)	333 (E)	250 (F)	225 (G)	417 (A)	333 (E)
Pore volume	86	86	84	84	83	86	84
Length tensile strength[III] daN	40	45	45	40	65	50	50
Cross tensile strength[III] daN	110	150	150	165	165	85	145
Length elongation at break %	20	23	22	21	24	14	20
Cross elongation at break %	42	40	41	42	42	25	30
Continual temp. resistance[IV] °C	200	200	200	200	200	170	170
Peak temp. resistance[IV] °C	220	220	220	220	220	190	190
Δ max of dimensions @ 150 °C	<1	<1	<1	<1	<1	<1	<1
Surface design/treatmen	(1) (2)	(1) (2)	(1) (2) (5)	(1) (2)	(1) (5) (6)	(1) (2)	(1) (2)

Additional treatments

1. Heat set
2. Singed face side
3. Epitropic fibre admixture
4. Micro pores by fine fibres
5. Full bath oil and water repellent finish for optimal cake releas
6. Glazed face side
7. Available in 200, 210 and 220 cm width
8. PTFE surface coating
9. Full bath anti-adhesive finish
10. Permanent conductive matrix, resistance <106 Ohm (DIN 54345 part 1 and part 5)
11. Full bath PTFE treatment
12. ACU-antistatic with coppers fibres composition-resistivity <103 Ohm (DIN 54345 part 1 and part 5)

Composition materials

a. Polyester
b. Polyacrylonitrile Homopolymer
c. Polyphenylene Sulphide
d. Meta aramid
e. Polymide
f. PTFE
g. Polyacrylonitrile Copolymer
h. Polyamide imide
i. Polypropylene

I. EN ISO 9073-1
II. EN ISO 9237
III. EN ISO 9073-3 / sample size 200/50 mm
IV. Chemical gas stream conditions may require a lower continuous operating temperature to be maintained

Permeability

A. 250 l/(dm2 min) pri 200 Pa
B. 75 l/(dm2 min) pri 200 Pa
C. 120 l/(dm2 min) pri 200 Pa
D. 90 l/(dm2 min) pri 200 Pa
E. 200 l/(dm2 min) pri 200 Pa
F. 150 l/(dm2 min) pri 200 Pa
G. 135 l/(dm2 min) pri 200 Pa
H. 100 l/(dm2 min) pri 200 Pa
I. 110 l/(dm2 min) pri 200 Pa
J. 350 l/(dm2 min) pri 200 Pa
K. 160 l/(dm2 min) pri 200 Pa
L. 130 l/(dm2 min) pri 200 Pa
M. 275 l/(dm2 min) pri 200 Pa

FILTER MATERIALS

PI

	PI/PI 501	PI/PI 501 CS30	PI/PI 551	PI/PI 551 MPS	PI/PI 554 CS17
Code	2521	6078	1939	2684	2774
Fibrous layer	(e)	(e)	(e)	(e)	(e)
Fabric	(e)	(e)	(e)	(e)	(e)
Weight[I] g/m²	500	500	550	550	550
Thickness mm	2,7	2,6	2,7	2,4	2,4
Density g/m³	0,19	0,19	0,2	0,23	0,23
Permeability[II] @200 Pa	333 (E)	250 (F)	250 (F)	167 (H)	200 (C)
Pore volume	87	87	86	84	84
Length tensile strength[III] daN	75	60	80	80	80
Cross tensile strength[III] daN	130	135	130	130	130
Length elongation at break %	20	16	20	20	20
Cross elongation at break %	30	30	30	30	30
Continual temp. resistance[IV] °C	240	240	240	240	240
Peak temp. resistance[IV] °C	260	260	260	260	260
Δ max of dimensions @ 150 °C	<1	<1	<1	<1	<1
Surface design/treatmen	(1) (2)	(1) (2) (11)	(1) (2)	(1) (2) (4)	(1) (5) (6)

Additional treatments

1. Heat set
2. Singed face side
3. Epitropic fibre admixture
4. Micro pores by fine fibres
5. Full bath oil and water repellent finish for optimal cake releas
6. Glazed face side
7. Available in 200, 210 and 220 cm width
8. PTFE surface coating
9. Full bath anti-adhesive finish
10. Permanent conductive matrix, resistance <106 Ohm (DIN 54345 part 1 and part 5)
11. Full bath PTFE treatment
12. ACU-antistatic with coppers fibres composition-resistivity <103 Ohm (DIN 54345 part 1 and part 5)

Composition materials

a. Polyester
b. Polyacrylonitrile Homopolymer
c. Polyphenylene Sulphide
d. Meta aramid
e. Polymide
f. PTFE
g. Polyacrylonitrile Copolymer
h. Polyamide imide
i. Polypropylene

I. EN ISO 9073-1
II. EN ISO 9237
III. EN ISO 9073-3 / sample size 200/50 mm
IV. Chemical gas stream conditions may require a lower continuous operating temperature to be maintained

Permeability

A. 250 l/(dm2 min) pri 200 Pa
B. 75 l/(dm2 min) pri 200 Pa
C. 120 l/(dm2 min) pri 200 Pa
D. 90 l/(dm2 min) pri 200 Pa
E. 200 l/(dm2 min) pri 200 Pa
F. 150 l/(dm2 min) pri 200 Pa
G. 135 l/(dm2 min) pri 200 Pa
H. 100 l/(dm2 min) pri 200 Pa
I. 110 l/(dm2 min) pri 200 Pa
J. 350 l/(dm2 min) pri 200 Pa
K. 160 l/(dm2 min) pri 200 Pa
L. 130 l/(dm2 min) pri 200 Pa
M. 275 l/(dm2 min) pri 200 Pa

FILTER MATERIALS

PTFE

	PTFE/PTFE 752 MPS	PTFE/PTFE 754 MPS CS18	PTFE/PTFE 754 MPS CS30	TFL/PTFE 752 MPS	TFL/PTFE 754 MPS CS18
Code	4375	3951	5716	6066	2930
Fibrous layer	(f)	(f)	(f)	(f)	(f)
Fabric	(f)	(f)	(f)	(f)	(f)
Weight[I] g/m²	750	750	750	750	750
Thickness mm	1,5	1,5	1,2	1,5	1,2
Density g/m³	0,5	0,5	0,63	0,5	0,63
Permeability[II] @200 Pa	183 (I)	167 (H)	167 (H)	250 (F)	183 (I)
Pore volume	76	76	70	76	70
Length tensile strength[III] daN	90	90	90	80	75
Cross tensile strength[III] daN	95	95	90	95	95
Length elongation at break %	7	8	7	8	9
Cross elongation at break %	19	12	43	48	47
Continual temp. resistance[IV] °C	250	250	250	250	250
Peak temp. resistance[IV] °C	280	280	280	280	280
Δ max of dimensions @ 150 °C	<2	<2	<2	<2	<2
Surface design/treatmen	(1) (4)	(1) (4) (6) (8)	(1) (4) (6) (11)	(1) (4)	(1) (4) (6) (8)

Additional treatments

1. Heat set
2. Singed face side
3. Epitropic fibre admixture
4. Micro pores by fine fibres
5. Full bath oil and water repellent finish for optimal cake releas
6. Glazed face side
7. Available in 200, 210 and 220 cm width
8. PTFE surface coating
9. Full bath anti-adhesive finish
10. Permanent conductive matrix, resistance <106 Ohm (DIN 54345 part 1 and part 5)
11. Full bath PTFE treatment
12. ACU-antistatic with coppers fibres composition-resistivity <103 Ohm (DIN 54345 part 1 and part 5)

Composition materials

a. Polyester
b. Polyacrylonitrile Homopolymer
c. Polyphenylene Sulphide
d. Meta aramid
e. Polymide
f. PTFE
g. Polyacrylonitrile Copolymer
h. Polyamide imide
i. Polypropylene

I. EN ISO 9073-1
II. EN ISO 9237
III. EN ISO 9073-3 / sample size 200/50 mm
IV. Chemical gas stream conditions may require a lower continuous operating temperature to be maintained

Permeability

A. 250 l/(dm2 min) pri 200 Pa
B. 75 l/(dm2 min) pri 200 Pa
C. 120 l/(dm2 min) pri 200 Pa
D. 90 l/(dm2 min) pri 200 Pa
E. 200 l/(dm2 min) pri 200 Pa
F. 150 l/(dm2 min) pri 200 Pa
G. 135 l/(dm2 min) pri 200 Pa
H. 100 l/(dm2 min) pri 200 Pa
I. 110 l/(dm2 min) pri 200 Pa
J. 350 l/(dm2 min) pri 200 Pa
K. 160 l/(dm2 min) pri 200 Pa
L. 130 l/(dm2 min) pri 200 Pa
M. 275 l/(dm2 min) pri 200 Pa

INDUSTRIAL DEDUSTING

FILTER MATERIAL SELECTION

Fibre Type		Temperature	Properties of Filter Material and Applicable Conditions	Applied Industries and Conditions
Polypropylene	(PP)	90°C	Applicable for conditions that continuous temperature is below 90°C, and instant temperature is below 100°C.	Dust collection under industrial conditions such as food industry, flour, sugar refining, fertilizer plant, plating, and agrochemicals.
Polyacrylonitrile Copolymer	(AC)	110°C	Applicable for conditions that continuous temperature is below 110°C, and instant temperature is below 115°C. Property of oxidation resistance is general, and allowed PH value range: 6 – 13. Relative Humidity <5%	Dust collection under industrial conditions such as detergent and coal dust.
Polyacrylonitrile Homopolymer	(DT)	125°C	Applicable for conditions that continuous temperature is below 125°C, and instant temperature is below 140°C. Property of oxidation resistance is not good, and allowed PH value range: 3 – 11. Relative Humidity <30%	Dust collection from fume of detergent, refuse burning, asphalt, spray dryer, coal mill, and power plant.
Polyester	(PE)	150°C	Applicable for conditions that continuous temperature is below 150°C, and instant temperature is below 150°C. Property of oxidation resistance is good, and properties of acid resistance and alkali resistance are general. Allowed PH value range: 4 – 12. Relative Humidity <4%. When temperature is high, expected life will be influenced by moisture content of fume.	Dust collection of mine, limestone flour, cement slurry, mill, packing, iron making, continuous casting, agglomeration, dust removal of electrical furnace, transport of aluminum oxide, fume of electrolytic aluminum, fume of nonferrous metals metallurgy, wood processing, food processing, and pharmacy industry.
Polyphenylene Sulphide	(PPS)	160°C	Applicable for conditions that continuous temperature is below 160°C, and instant temperature is below 200°C. Property of oxidation resistance is not good, but properties of acid resistance and alkali resistance are excellent. Allowed PH value range: 1 – 14. Relative Humidity >30%.	Dust collection from fume suboxide of coal burning boiler, refuse burning, metal smelting, and chemical industry.
Meta aramid	(NO)	200°C	Applicable for conditions that continuous temperature is below 200°C, and instant temperature is below 220°C. Property of oxidation resistance is general, and allowed PH value range: 5 – 9. Relative Humidity <10%. When temperature is high, its properties will be influenced by moisture content.	Dust collection under industrial conditions such as asphalt stirring, nonferrous metals metallurgy, ceramics, glass, kiln hood (cooler) of cement industry, and blast furnace gas of steelworks.
Polymide	(PI)	220°C	Applicable for conditions that continuous temperature is below 220°C, and instant temperature is below 260°C. Property of oxidation resistance is general, and allowed PH value range: 3 – 13. Relative Humidity <25%	Dust collection from medium erosive fume of chemicals, metal smelting, refuse burning, charging side of cement kiln, and coal burning boiler.
Polytetrafluo-roethylene	(PTFE)	250°C	Applicable for conditions that continuous temperature is below 250°C, and instant temperature is below 280°C. It is of excellent properties of resistance against every kind of chemical erosion. Allowed PH value range: 1 – 14. Relative Humidity >30%.	Dust collection from high erosive and high temperature fume of chemicals, coal burning boiler, refuse burning, and nonferrous metal smelting.
Fibreglass	(FG)	260°C	Applicable for conditions that continuous temperature is below 260°C, and instant temperature is below 280°C. Property of oxidation resistance is good, and allowed PH value range: 4 – 9. Relative Humidity is 55%.	Dust collection from high temperature fume of cement, coal burning boiler, refuse burning furnace, steel making electrical furnace, blast furnace gas, and ferroalloy furnace.

Stability and characteristics of materials

Fibre Type	Temperature Continuous	Resistance to Hydrolysis	Resistance to Acids	Resistance to Alkalis	Resistance to Oxidation	Abrasive Resistance
Polypropylene (PP)	90°C / 100°C	excellent	excellent	excellent	restricted use	good
Polyacrylonitrile Copolymer (AC)	110°C / 115°C	good	moderate	moderate	good	good
Polyacrylonitrile Ho-mopolymer (DT)	125°C / 140°C	good	good	moderate	good	good
Polyester (PE)	150°C / 150°C	restricted use	moderate	restricted use	good	excellent
Polyphenylene Sulphide (PPS)	160°C / 200°C	excellent	excellent	excellent	moderate	excellent
Meta aramid (NO)	200°C / 220°C	moderate	moderate	moderate	good	excellent
Polymide (PI)	220°C / 260°C	good	good	moderate	good	good
PTFE (PTFE)	250°C / 280°C	excellent	excellent	excellent	excellent	moderate
Fibreglass (FG)	260°C / 290°C	good	excellent	poor	excellent	poor

ECOTIP

FILTRATION OF LIQUIDS

Ecofil® filters for the filtration of liquids - used in electroplating, wastewater treatment, sugar factories and other industries.

- Filter clothes

Filter bags

Ecofil® filter bags provide high quality, efficient and consistent filtration.Ecofil® filter bags are ideal for removing solid particles in virtually any processing. They are manufactured and tested under the strictest quality control standards to assure efficient performance. These filter bags are used at a high flow rate, where a liquid density above 10.000 cps requires filtration.

Quality classes of Ecofil® filter bags: 1 µm, 2,5 µm, 5 µm, 10 µm in 25 µm (particle retention ratings).

Applications: adhesives, beverages, coatings, coolants, inks, detergents, paints, washing systems, oil refineries, dissolutions, synthetic resins etc.

Gaf filters

Gaf filter for wet filtering ensures stopping and loading impurities on its inner part. When changing the filter bag it is not necessary to clean housing because we remove all impurities with gaf filter.

Quality classes of Ecofil® gaf filter: 1 µm, 5 µm, µm, 10 µm, 25 µm, 50 µm, 75 µm, 100 µm, 125 µm, 200 µm, 400 µm, 600 µm, 800 µm, 1000 µm (particle retention ratings).

Application: adhesives, beverages, coatings, coolers, inks, detergents, paints, washing systems, refineries, decomposing, artificial resins...

Filter cartridges

Technologically advanced cartridge with a doubled cartridge life, and improved performance. The unique construction of cartridges provides twice the average life of conventional cartridges for fluid filtration. Computer modelling has optimized the cartridge's geometry, thus enabling full use of the cartridge's surface. The enhanced design provides improved dirt-holding capacity (twice the average) over standard cartridges, whilst providing secure deep bed filtration.

They are available in the qualities of: 1 µm, 3 µm, 5 µm, 10 µm, 20 µm, 30 µm, 50 µm in 100 µm.

Applications: water treatment processing, chemical and photographic processing, treatment of derivatives, beverages etc.

Ultra filtration

Quality filtration solution with the aid of a nylon-membrane filter cartridge. Nylon membrane filter cartridges provide a wide range of chemical compatibility and highly-rated efficiency at low extractable levels in critical process fluid streams.They are ideal for biological filtration.

Available in pore sizes: 0,1 µm, 0,2 µm, 0,45 µm in 0,65 µm.

Applications: in food processing, chemical and medical industries, informatics industries (optics, computer technology, photographic), etc.

Filter Sheets

The overall goal of filtration is to separate solid particles suspended in various liquid solutions. Particles can be either inorganic or organic; including yeast, bacteria and spores. In addition, particles can be of different size down to sub-micron size in the range of ~ 0.2micron. Below 0.2 micron, there are molecule aggregates forming colloidal dispersions; which generally require other filtration techniques. Our filter sheets and boards are widely used in the agro-foodstuffs, chemical, pharmaceutical, biotechnological, cosmetic and petrochemical industries for course, clarifying and sterilising filtration.

Airslides

Airslides can be used for silos fluidification, pneumatic conveyors and vehicles. We can offer in belt, rib and tubular fabrics. Airslides can use on the following industry: cement plant, mininfg industries, chemical plants, power plants, food industry.

We can offer the following: different materials: cotton, polyester, aramide.

- several width and different thicknesses
- wide range of porosity and high tensile strength and abrasion resistance
- rolls between 30 in 50 m

ECOTIP