




SPRAY BOOTH FILTERS BY APP

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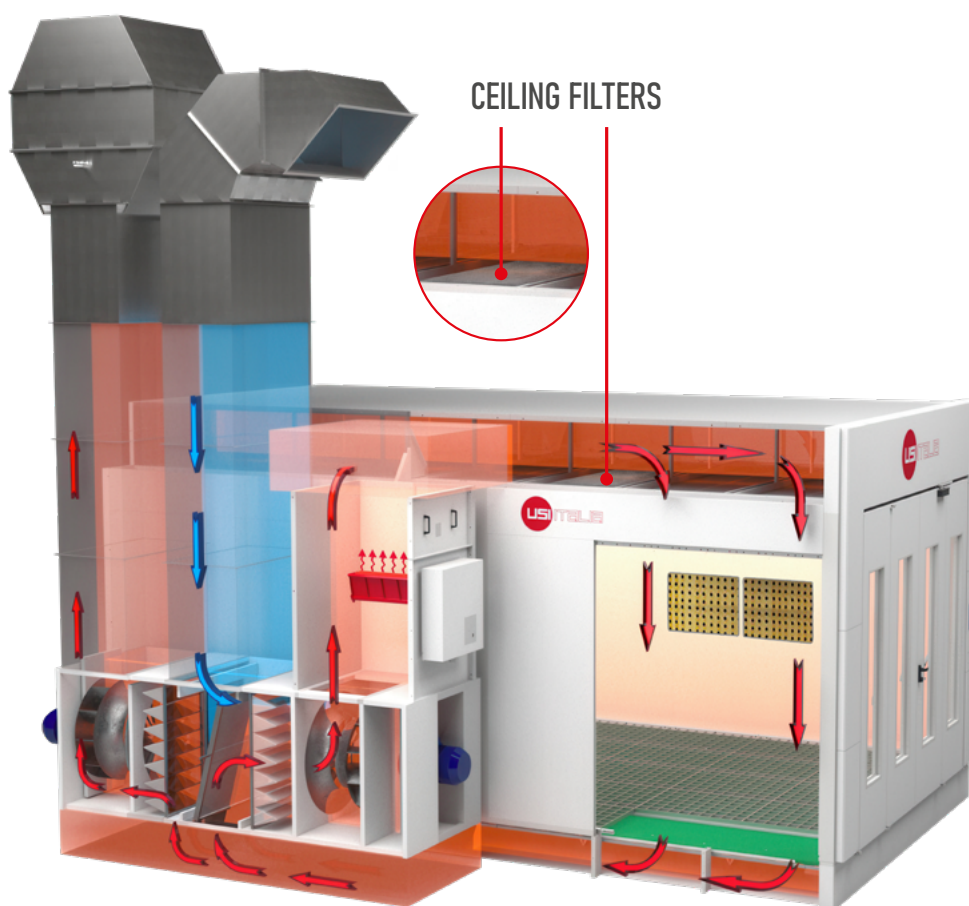


APP V650, V560, V600, V500

Ceiling filters for spray booths

Non-woven polyester filter mats **V650, V560, V600 and V500** are designed for primary filtration of paint booth intake air as a fine dust filter for spray painting systems.

The progressively assembled filter mat is impregnated with binder throughout. The clean air side is reinforced with woven fabric or polyester mesh. Do not contain silicone or other substances harmful to paintwork.



Benefits:

1. **Progressive design** with binder throughout the filter's entire volume results in a high capacity to capture and collect dust, ensuring long-lasting and reliable performance.
2. In the V560 and V650 filters, the woven polyester fabric, as well as polyester mesh in the V500 and V600 filters ensure uniform airflow, increase the stability of the filter fabric during shocks caused by the start-up of the drive turbines and prevent mechanical damage during installation.
3. **The high mechanical strength** of the filter mat guarantees dimensional stability throughout its service life, even at high air flow rates.

APP V650, V560, V600, V500

Ceiling filters for spray booths



PARAMETERS	APP V 650	APP V 560	VOLZ V 600	VOLZ V 500
Surface weight approx.	600 g/m ²	510 g/m ²	635 g/m ²	500 g/m ²
Filtration efficiency according to ISO 16890	ePM10 55%	ePM10 50%	ePM10 55%	ePM10 50%
Filtration class in accordance with EN 779:2012	F5	F5	M5	M5
Filtration efficiency according to EN 779:2012	96%	95%	97%	96%
Rated air flow rate	1800 m ³ /h/m ²	1800 m ³ /h/m ²	1800 m ³ /h/m ²	1800 m ³ /h/m ²
Recommended air flow	0,5 m/s	0,5 m/s	0,5 m/s	0,5 m/s
Initial pressure loss	81 Pa	55 Pa	56 Pa	70 Pa
Average filter mat thickness	27 mm	22 mm	25 mm	25 mm
Maximum continuous operating temperature	80 °C	80 °C	80 °C	80 °C
Resistance to fire in accordance with DIN 53438	F1	F1	F1	F1

The technical data have been drawn up on the basis of current knowledge in good faith and are a guide to application.

APP V650, V560, V600, V500

Ceiling filters for spray booths

Filter mats for fine filtering with the highest required filtering accuracy and optimum dust-holding capacity ensure the best painting results. They are standard equipment during the restoration and production of cars and furniture. They are also widely used as a fine filter in any forced-air ventilation system.

APP V 650 – Ceiling filter for lacquering cabins 600 g

APP No.	Product name		Thickness [mm]	Filtration class	Dimensions [m] width x height	Surface area [m²]
100260	APP V 650	Ceiling filter for spray booths	27	F5	2,10 x 20	42,00
100263	APP V 650	Ceiling filter for spray booths	27	F5	1,60 x 20	32,00
100262	APP V 650	Ceiling filter for spray booths	27	F5	1,20 x 20	24,00
100252	APP V 650	Ceiling filter for spray booths	27	F5	cut to size in m²	

APP V 560 – Ceiling filter for lacquering cabins 510 g

APP No.	Product name		Thickness [mm]	Filtration class	Dimensions [m] width x height	Surface area [m²]
100232	APP V 560	Ceiling filter for spray booths	22	F5	2,10 x 20	42,00
100237	APP V 560	Ceiling filter for spray booths	22	F5	1,60 x 20	32,00
100242	APP V 560	Ceiling filter for spray booths	22	F5	1,20 x 20	24,00
100244	APP V 560	Ceiling filter for spray booths	22	F5	cut to size in m²	

VOLZ V 600 – Ceiling filter for lacquering cabins 650g

APP No.	Product name		Thickness [mm]	Filtration class	Dimensions [m] width x height	Surface area [m²]
100202	VOLZ V 600	Ceiling filter for spray booths	25	M5	2,40 x 22	52,80
100201	VOLZ V 600	Ceiling filter for spray booths	25	M5	2,00 x 20	40,00
100211	VOLZ V 600	Ceiling filter for spray booths	25	M5	1,50 x 20	30,00
100205	VOLZ V 600	Ceiling filter for spray booths	25	M5	1,20 x 20	24,00
100220	VOLZ V 600	Ceiling filter for spray booths	25	M5	cut to size in m²	

VOLZ V 500 – Ceiling filter for lacquering cabins 550 g

APP No.	Product name		Thickness [mm]	Filtration class	Dimensions [m] width x height	Surface area [m²]
100204	VOLZ V 500	Ceiling filter for spray booths	25	M5	2,38 x 22	52,36
100203	VOLZ V 500	Ceiling filter for spray booths	25	M5	2,00 x 20	40,00
100213	VOLZ V 500	Ceiling filter for spray booths	25	M5	1,50 x 20	30,00
100206	VOLZ V 500	Ceiling filter for spray booths	25	M5	1,20 x 20	24,00
100221	VOLZ V 500	Ceiling filter for spray booths	25	M5	cut to size in m²	

NOTE! APP also offers cutting the ceiling filters to any size ordered by the customer.

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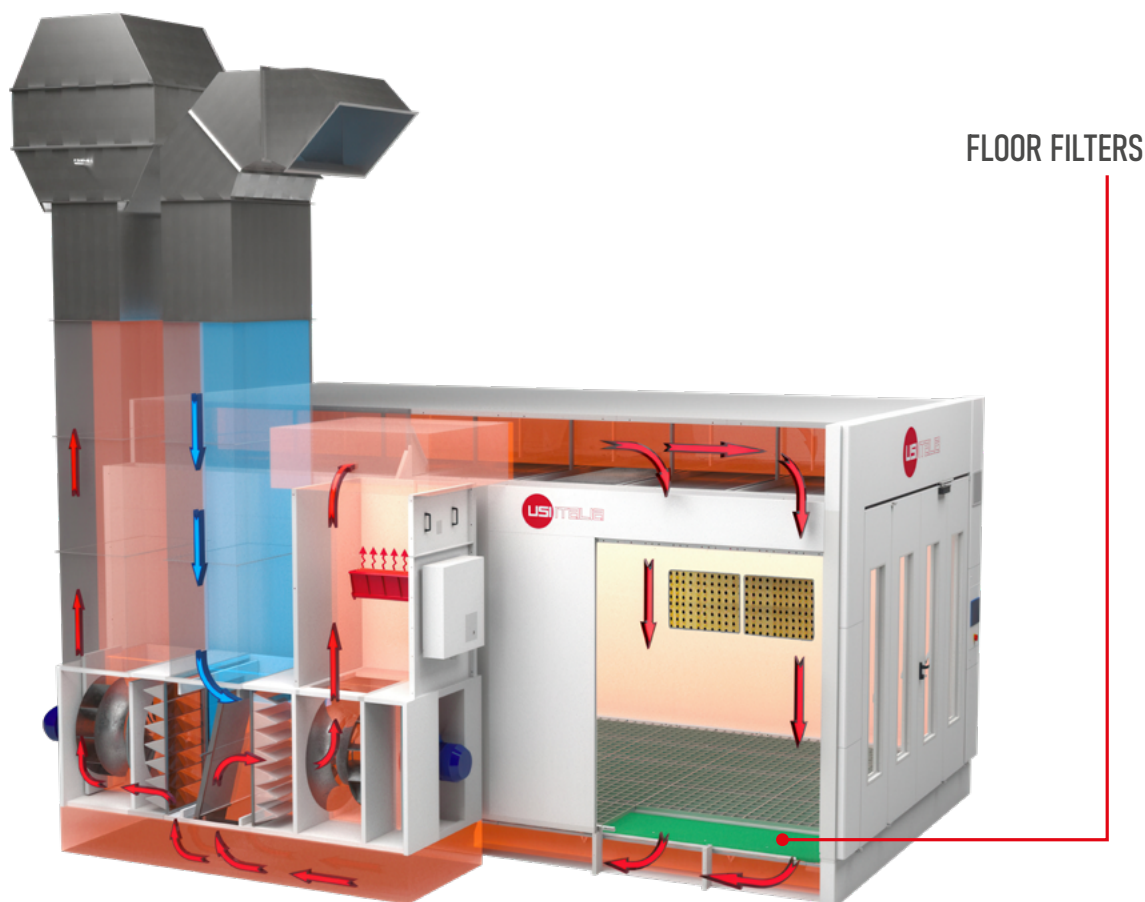
APP FP

PAINT STOP floor filters

The green and white APP PAINT STOP filtering mats with filtration class G3 are designed for capturing sprayed conventional and water-thinned paints in spray painting systems during the production of self-paints in lacquering chambers, and in wet painting systems for industrial painting: furniture, windows, machine parts, etc. The progressively (progressively) installed 100 % glass-fibre dry filter takes the form of a spatially flexible mat. The density of the filter increases in the direction of air flow. The green side goes on the air intake side.

Benefits:

1. Low compressibility to guarantee high filter capacity.
2. The progressive design ensures a balanced distribution of the captured paint.
3. The labyrinth structure enables high filtering efficiency.
4. Flammability class DIN 53438-3 (F1) – hardly flammable.
5. Filtration efficiency according to ISO 168890 ePM₁₀ 55%





PARAMETERS	APP FP 20	APP FP 25	APP FP 28
Average filter mat thickness	3,5"	3,0"	2,8"
Filtration efficiency according to ISO 16890	ePM ₁₀ 55%	ePM ₁₀ 55%	ePM ₁₀ 55%
Filtration class in accordance with EN 779:2012	G3	G3	G3
Filtration efficiency according to EN 779:2012	99,6%	95%	96-99,5 %
Rated air flow rate	-	2500 - 6300 m ³ /h/m ²	300 - 6500 m ³ /h/m ²
Recommended air speed	0,5 - 2,5 m/s	0,7 - 1,75 m/s	0,85 - 1,8 m/s
Surface weight approx.	230 g/m ²	240 g/m ²	250 g/m ²
Resistance to fire in accordance with DIN 53438	F1	F1	F1

The technical data have been drawn up on the basis of current knowledge in good faith and are a guide to application.



APP Floor Filters

APP offers three types of floor filters with different thicknesses and roll lengths.

APP FP 20 (3.5") green/white floor filter

APP No.	Product name		Thickness [mm]	Filtration class	Dimensions [m] width x height	Surface area [m²]
101210	APP FP 20	Floor filter for spray booths	3,5 "	G3	0,76 x 20	15,20
101220	APP FP 20	Floor filter for spray booths	3,5 "	G3	0,86 x 20	17,20
101230	APP FP 20	Floor filter for spray booths	3,5 "	G3	1,00 x 20	20,00
101240	APP FP 20	Floor filter for spray booths	3,5 "	G3	1,20 x 20	24,00
101290	APP FP 20	Floor filter for spray booths	3,5 "	G3	2,00 x 20	40,00

APP FP 25 (3") green/white floor filter

APP No.	Product name		Thickness [mm]	Filtration class	Dimensions [m] width x height	Surface area [m²]
101010	APP FP 25	Floor filter for spray booths	3 "	G3	0,76 x 25	19,00
101020	APP FP 25	Floor filter for spray booths	3 "	G3	0,86 x 25	21,50
101030	APP FP 25	Floor filter for spray booths	3 "	G3	1,00 x 25	25,00
101040	APP FP 25	Floor filter for spray booths	3 "	G3	1,20 x 25	30,00

APP FP 28 (2.8") green/white floor filter

APP No.	Product name		Thickness [mm]	Filtration class	Dimensions [m] width x height	Surface area [m²]
101410	APP FP 28	Floor filter for spray booths	2,8 "	G3	0,76 x 20	15,20
101420	APP FP 28	Floor filter for spray booths	2,8 "	G3	0,85 x 20	17,20
101430	APP FP 28	Floor filter for spray booths	2,8 "	G3	1,00 x 20	20,00
101440	APP FP 28	Floor filter for spray booths	2,8 "	G3	1,20 x 20	24,00
101450	APP FP 28	Floor filter for spray booths	2,8 "	G3	2,00 x 20	40,00
101460	APP FP 28	Floor filter for spray booths	2,8 "	G3	1,50 x 20	30,00

APP FK

Pocket filters for spray booths

The pocket filters by APP, with their large working area, G4 filtration accuracy and very high dust capacity as a pre-filter, provide the best protection for M5 and F5 fine dust filters and as a post-filter they protect the extraction turbine from loss of balance and the environment from the emission of lacquer aerosol into the atmosphere. The pocket filters, compared to flat filters, are characterised by a many times larger filter area, dust capacity and longer service life. The service life of these filters is estimated at 300-350 hours for pre-filters and 150 - 200 hours for post-filters. After this period, the filters should be changed. APP offers replacement pocket filters for all types of spray booths used in our market.

STRUCTURE AND COMPONENTS

The pocket filters available from APP are manufactured from two types of non-woven fabrics: PREMIUM and STANDARD. Both are made to G4 filtration class. The non-woven materials are made of 100 % polyester thermally bonded. They have a progressive structure and therefore absorb and retain more particles than nonwovens with a constant fibre density. It is also possible to manufacture pocket filters from non-woven fabrics with filtration classes G3, F5, F6 and F7 (availability of non-woven fabrics to be confirmed).

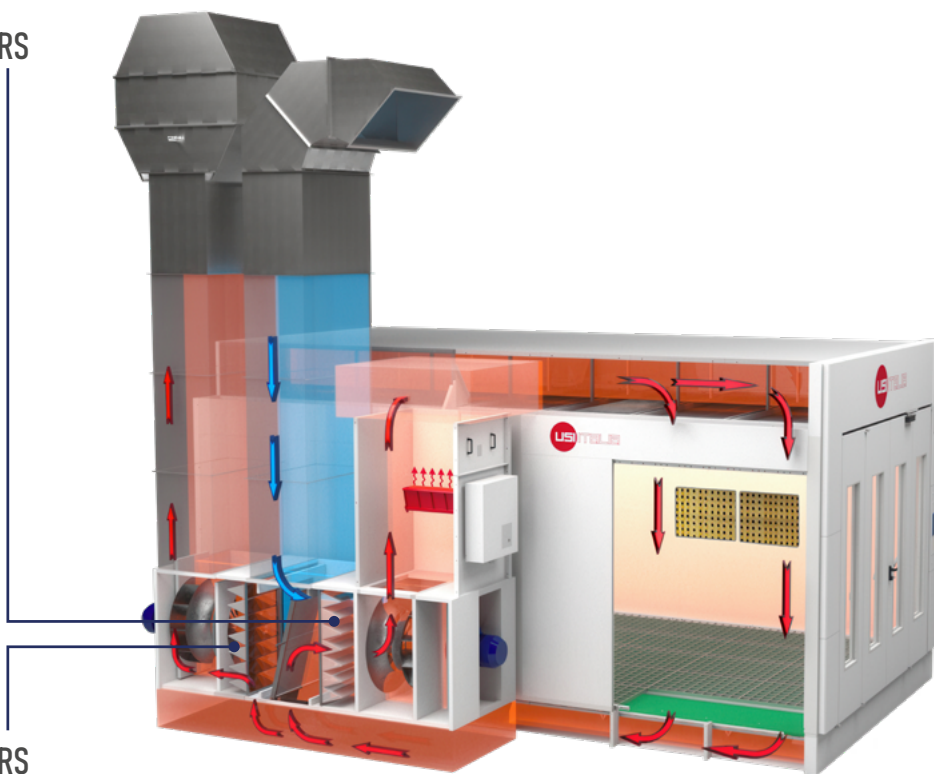
The nonwovens do not contain silicone or other substances that can cause paint defects. We do not use glue or foam to install the pockets in frames. The frames in the pocket filters are made of steel, which makes them resistant to the temperatures occurring during the drying phase, unlike the plastic frames available on the market. Each filter has a sticker with index, dimensions and airflow direction.

POCKET FILTERS

PRE-FILTRATION

POCKET FILTERS

FINAL FILTRATION





Properties	Włóknina		
	PREMIUM	PLUS	STANDARD
Surface weight approx.	220 g/m ²	150 g/m ²	140 g/m ²
Filtration efficiency according to ISO 16890	Coarse 65%	Coarse 45%	Coarse 55-65%
Filtration class in accordance with EN 779:2012	G4	G2	G4
Filtration efficiency according to EN 779:2012	≥ 90%	≥ 90%	≥ 90%
Recommended air flow	1,0 m/s	1,5 m/s	1,5 m/s
Rated air flow rate	3600 m ³ /h/m ²	5400 m ³ /h/m ²	5400 m ³ /h/m ²
Initial resistance	18 Pa	27 Pa	52 Pa
Average filter mat thickness	24 mm	11 mm	5 mm
Resistance to fire in accordance with DIN 53438-3	F1	F1	F1

The technical data have been drawn up on the basis of current knowledge in good faith and are a guide to application.

APP pocket filters

The pocket filters available from APP are manufactured from two types of fabrics: PREMIUM and STANDARD. These fabrics differ in thickness and air permeability coefficient - measured in m³/h/m².

APP No.	Product name		Thickness [mm]	Number of pockets	Dimensions [mm] width x height x depth	Filtration area approx. (m ²)	Comment	
100306	APP FK 306	PREMIUM G4 pocket filter USI type C	22	7	1070 x 523 x 200 (25 mm frame)	1,46	The most commonly used filter in USI cabs and zones USI made after 2004.	
100307	APP FK 307	PREMIUM G4 pocket filter - USI Type D	22	8	1168 x 598 x 200 (25 mm frame)	1,91	Pre- and post-filtration	
100307E	APP FK 307	Pocket filter G4 - USI type D	8	8	1168 x 598 x 200 (25 mm frame)		The most commonly used filter in USI cabs and zones USI made after 2004.	

APP No.	Product name		Thickness [mm]	Number of pockets	Dimensions [mm] width x height x depth	Filtration area approx. (m2)	Comment	
100310	APP FK 310	PREMIUM G4 cone-shaped pocket filter for SAIMA spray booths	22	1	415 x 380 x 600 (25 mm frame)	0,46	Final filtration SAIMA booths	
100310E	APP FK 310	Pocket filter G4 cone type suitable for SAIMA spray booths	8	1	415 x 380 x 600 (25 mm frame)			
100310G3	APP FK 310	Pocket filter G3 cone type suitable for SAIMA spray booths	8	1	415 x 380 x 600 (25 mm frame)			
100321	APP FK 321	PREMIUM G4 pocket filter for WBS spray booths	22	4	1182 x 585 x 300 (25 mm frame)	1,40	Pre- and post-filtration WBS cabins from 2014 onwards.	
100352	APP FK 352	Pocket filter suitable for Blowtherm spray booths	22	10	1195 x 590 x 200 (20 mm frame)	2,38	Pre- and post-filtration BLOWTHERM booths.	
100352E	APP FK 352	Pocket filter G4 suitable for Blowtherm spray booths	8	10	1195 x 590 x 200 (20 mm frame)			
100356	APP FK 356	Pocket filter suitable for Blowtherm-type paint preparation areas	22	10	1195 x 485 x 200 (20 mm frame)	1,94	Pre- and post-filtration BLOWTHERM zones	
100370	APP FK 370	PREMIUM G4 pocket filter for SAIMA spray booths	22	4	590 x 450 x 700 (25 mm frame)	2,52	Pre-filtration SAIMA booths	
100390	APP FK 390	PREMIUM G4 pocket filter – for USI spray booths type MILLIBAR	22	6	785 x 685 x 200 (25 mm frame)	1,64	Pre-filtration MILLIBAR booth.	

APP FKB 10 / APP FKW 10

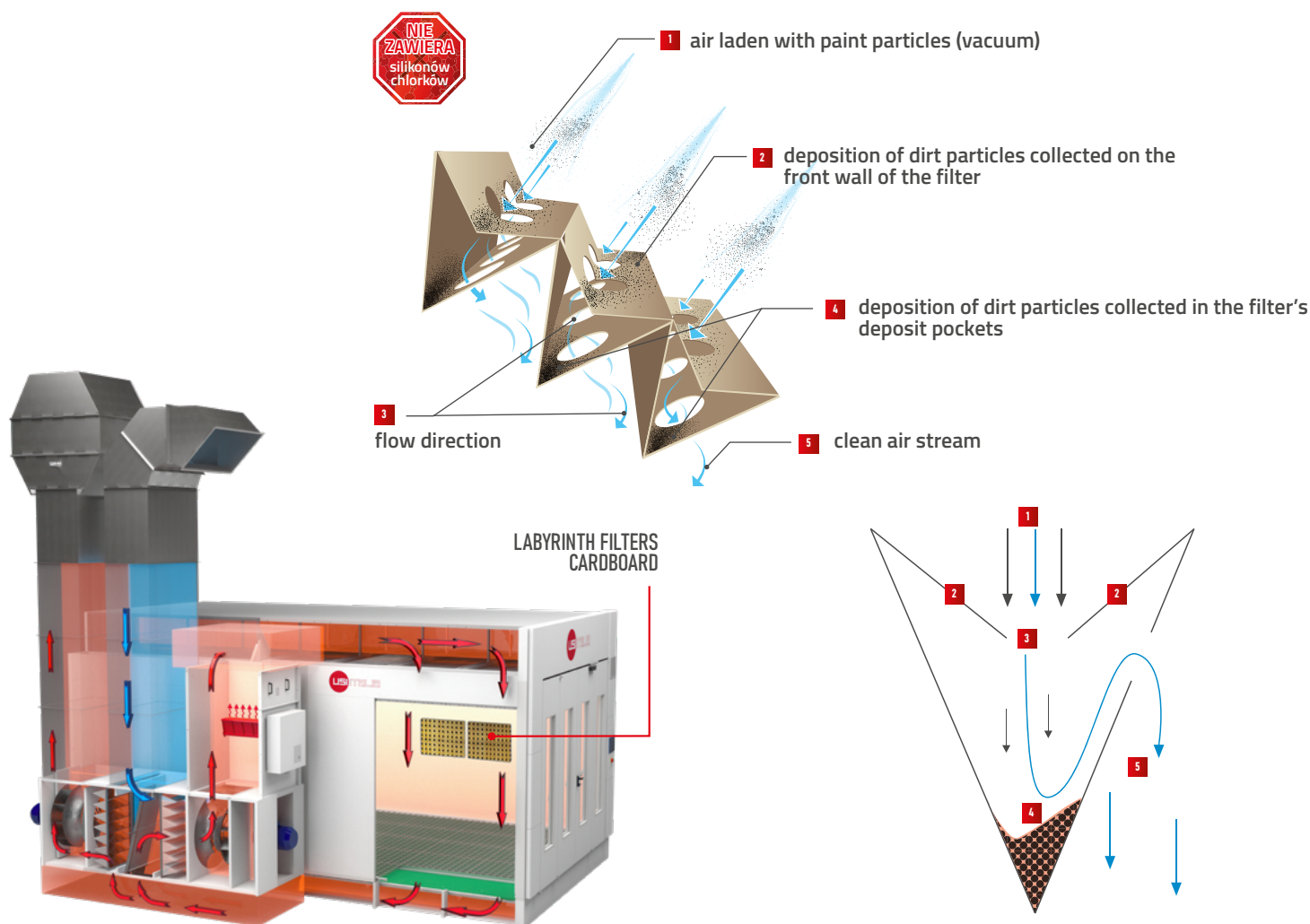
Labyrinth-type cardboard filters

The APP FKB 10 and FKW 10 labyrinth-type cardboard filters operate on the principle of inertial separation (inertia). This involves separating the heavier-than-air dirt particles by depositing them on the front wall of the filter and in the deposit pockets. The separation of the dirt particles is the result of air flow through a labyrinth of dense pleats or tabs and holes inside the filter.

By rapidly diverting the direction of air flow inside the filter, spray mist and particles remain trapped inside the pocket, and the air stream coming out of the filter is virtually completely cleaned.

STRUCTURE AND COMPONENTS

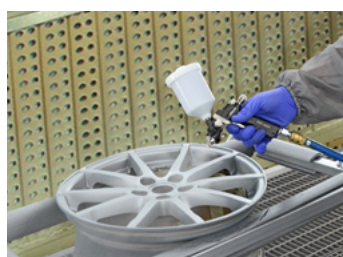
The APP FKB 10 and FKW 10 cardboard filters are made of two layers of pleated cardboard paper, glued together.



Parameters of the cardboard filters



JOINER'S WORKSHOPS



PAINT SHOPS



PRODUCTION



CAR REPAIRS

Cardboard filters APP FKB 10 and APP FKW 10 are ideal for use in paint shops, preparation zones, lacquering walls during car production and repairs, and industrial spraying of: furniture, windows, machine parts, etc.

FILTER MATERIAL CHARACTERISTICS:

- Filtration efficiency 90.00 - 98.10% depending on the type of paint,
- high capacity to repel water molecules (water resistance),
- folding cardboard (pleated) - working filter height 45 mm,
- temperature resistant up to 180°C,
- surface bonded with vinyl glue.

CAPACITY

	ABSORBENCY	EFFICIENCY
Paint types	▼ ▼ ▼ ▼ ▼ ▼	▼ ▼ ▼ ▼ ▼ ▼
HS paints	▼ ▼ ▼ ▼ ▼ ▼	▼ ▼ ▼ ▼ ▼ ▼
HS paints	▼ ▼ ▼ ▼ ▼ ▼	▼ ▼ ▼ ▼ ▼ ▼

CHARACTERISTICS	APP FKB 10	APP FKW 10
Filter dimensions	0,75 x 13,50 m (10 m ²) 0,90 x 11,15 m (10 m ²) 1,00 x 10,00 m (10 m ²)	
Height	45 mm	45 mm
Surface weight approx.	230 g/m ²	230 g/m ²
Colour	brown	white
Application	organic varnishes	water-based and organic paints
Effective	90,00 - 98,10%	90,00 - 98,10%

The technical data have been drawn up on the basis of current knowledge in good faith and are a guide to application.

The primary task of cardboard filters:

capturing and binding of overspray that has not settled on the painted surface and of fine dust that has penetrated into the working area.



ADVANTAGES



HIGH PERFORMANCE

- approximately 2-3 times higher than other filters



FILTRATION EFFICIENCY

- close to 100%, depending on the type of paint used



EASY TO USE




- the filter is one of the easiest to use on the market



FEWER FILTER REPLACEMENTS RESULTING IN HIGHER SPRAY BOOTH PRODUCTIVITY



CONSTANT AIR FLOW IN THE SPRAY BOOTH DURING THE „RUNNING“ PERIOD FILTER

APP No.	Product name	Colour	Height	Area
100843	APP FKB 10 - Cardboard filter		100 cm	10m ²
100847	APP FKB 10 - Cardboard filter		90 cm	10m ²
100851	APP FKB 10 - Cardboard filter		75 cm	10m ²

APP No.	Product name	Colour	Height	Area
100844	APP FKW 10 - Cardboard filter		100 cm	10m ²
100848	APP FKW 10 - Cardboard filter		90 cm	10m ²
100852	APP FKW 10 - Cardboard filter		75 cm	10m ²

Tailor-made!

APP also makes non-standard pocket filters for pre and post-filtration to any size ordered by the customer.

APP pocket filters

TYPES OF POCKET FILTERS

1. **WITHOUT FRAME** – the fabric itself sewn as pockets or sleeves (with blinded or not blinded tubes).
2. **IN GALVANISED SHEET METAL FRAME** – 5 mm frame thickness is standard, 20 mm frame thickness is also available.

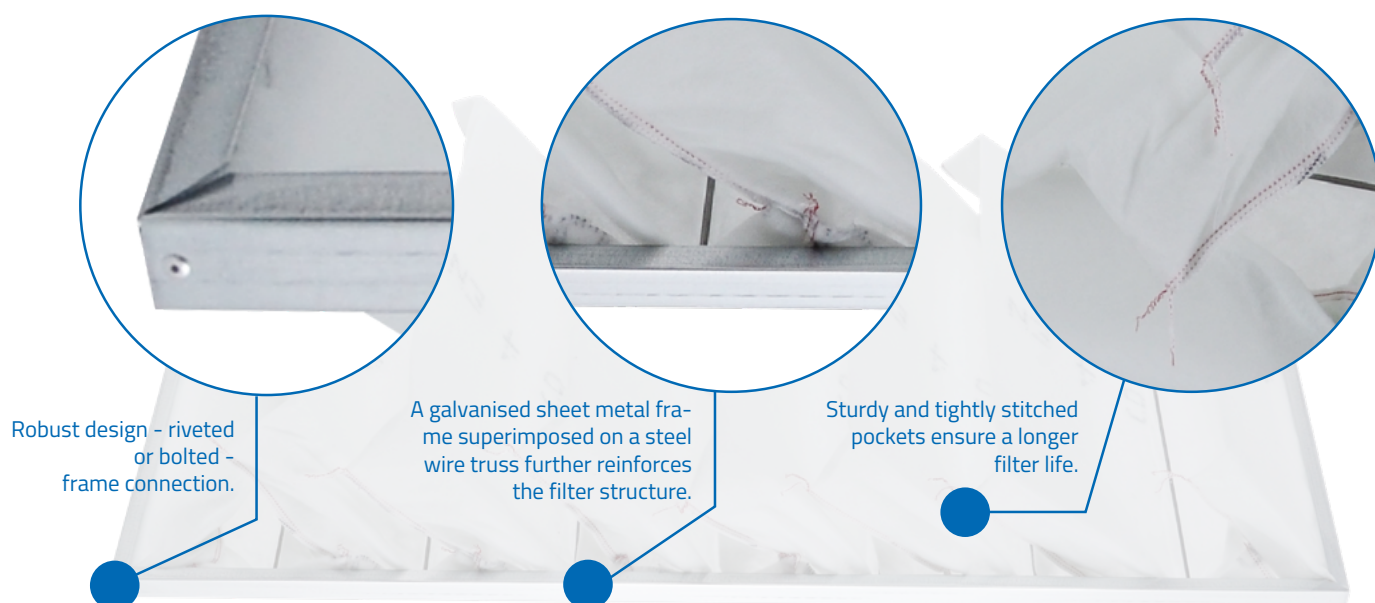
DESIGN:

Solid welded steel wire truss with very high mechanical strength (max. production dimensions 70 x 150 cm). Over 70 cm pocket width, the full truss is made of wood (max. production dimensions on wood are 100 x 150 cm).

Filter material 100% polyester thermally bonded, in filtration class G4, in the form of pockets - the more pockets, the larger the filtration area and thus the higher the filtration efficiency. The pockets are mounted on the truss by stitching. Truss with pockets mounted in a metal frame using the push-in method. The frame is then riveted or bolted together.

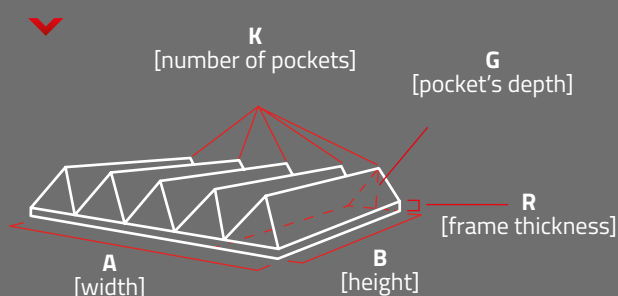
ADVANTAGES:

Robust, strong design on a full truss without the use of glue mounted in a press-fit and riveted frame allows the use of our pocket filters on 7.5 kW turbines with a flow of 23,000 m³/h and with turbines up to 11 kW and an air flow of 41,000 m³/h without the risk of the air draft pulling the filter out of the frame.

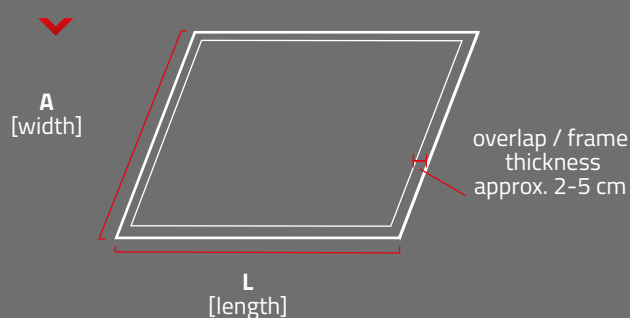


APP makes filters according to the dimensions specified by the customer.
See how easy it is to measure the required dimensions.

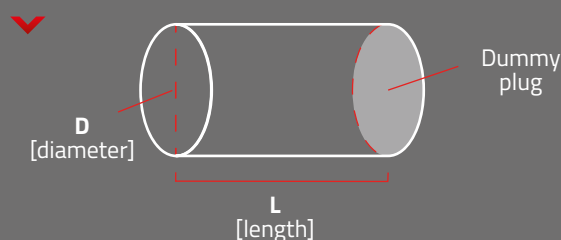
POCKET FILTER with or without frame



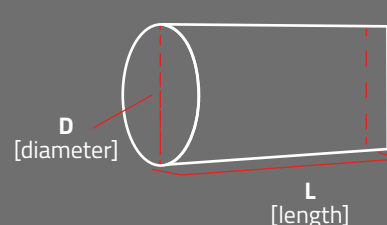
CEILING FILTER



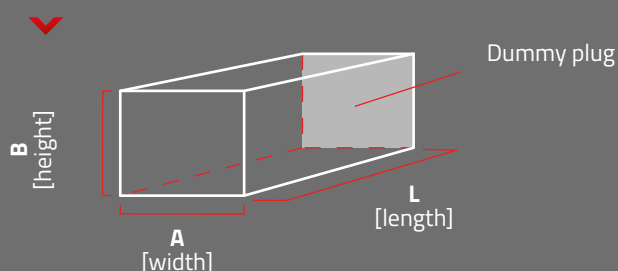
CYLINDER with cap



CYLINDER flat sewn



A RECTANGULAR SLEEVE with a cap



Contact your technical and commercial account manager and ask for a quote.


CABIN FILTERS WHY ARE THEY SO IMPORTANT?

The proper use of filters has a direct impact on the quality of the work carried out in the work cabin. For safety reasons, painting operations in the booth requires a large and constant exchange of air, which is the main carrier of dust and dirt that can damage the painted surface. In order to ensure that the air in the spray booth is as clean as possible, a well-thought-out filter system is required, for the correct repair or repainting of a bodywork component even in high dust levels.


FILTER LIFE HOW OFTEN SHOULD THE FILTERS BE REPLACED?

There is a number of factors that affect filter change intervals, such as the external environment in which the spray booth is located, the volume of painting work, etc. However, it is possible to give a rough indication of when the filters should be changed. However, it is possible to give a rough indication of the time it takes to change the filters in the spray booth:


POCKET PRE-FILTERS
approx. 3-4 months

 **300 – 350 h**


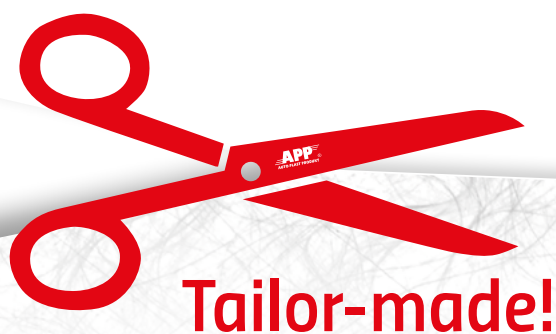
FLOOR FILTERS
approx. 1.5 months

 **100 – 150 h**

FINAL POCKET FILTERS
1.5-2 months

 **150 – 200 h**

CEILING FILTERS
approx. 9-12 months

 **800 – 1000 h**

APP also offers servicing of spray booths, including replacement of floor, ceiling, pre and post filters (pocket and cartridge). With ceiling filters and custom pre and post filters, we can make them to a specific size as ordered by the customer.