

PRUNUS

air systems



Filters for HVAC Systems and Cleanrooms

Partnership with Setfil

PRUNUS

air systems

SF SetFil
Filter For Clean Air

we make every breath count

ABOUT SETFIL

SetFil started its activities in 2010 in order to manufacture and sell filters used in ventilation and air conditioning devices.

SetFil manufactures all filter groups, from pre-filters used in basic ventilation devices to absolute filters used in clean room air-conditioning systems, using

high-quality filter raw materials imported from abroad, in high-tech machines in

accordance with national and international quality standards.

Its commercial and production structure is continuously expanding through out

the world. Our extensive customer list ranges from large multi-national corporates to small local and international engineering firms, all of whom benefit from the combined experience of our skilled team. Today, in

fact, SetFil continues to grow constantly from year to year and is now embarking

on a new development phase.

SetFil is strongly committed to become a global brand in best quality of filters and

services as well as continues to carry out its work with valued customers, investing

in research and improving its productive accordance with new quality standards in

line with its basic strategies.

Our main field of activities are as follows;

- Production of filters used in ventilation units and air conditions
- Filtration products for hospitals and clean rooms
- Dust removals and filters
- Filters for odour filtration



ABOUT PRUNUS

From the very beginning, Prunus doo has been engaged in the production of ventilation ducts and equipment, construction sheet metal and the installation of HVAC systems in all types of buildings. Today it employs 35 workers.

The company has a production plant of 1200 m² and a new administrative building. We have a set of machines for modern production and processing of sheet metal and steel, including plasma CNC and spiro machine (manufacturers Spiro, Wammes, Sente and others). The company has a modern fleet and all equipment for installation of HVAC systems in all conditions.

The company Prunus has been working on the BiH market since the very beginning of its business, and we are mostly present in the segment of health and medical facilities, pharmaceutical, car and other industries, hotels, garages, shopping and sports centers, etc.

From the very beginning, the company has been present in foreign markets, with the export of our products and the installation of entire HVAC systems. We have worked on projects for the markets of Great Britain, Sweden, Montenegro, Kosovo.

We are especially proud of the successful project in 2019 in Rwanda for the investor One & Only / Mirage Dubai, on the construction of one of the best hotel resorts in Africa. We have successfully completed this two-year, very demanding project in terms of organization, logistics, transport, work in new conditions, etc., and handed over the complete mechanical installation (heating, cooling, ventilation, gas, preparation of sanitary and pool water) to the investor for further use.

Since 2020, the company has been successfully operating in the German market, where we export our products for Siemens and General Electric projects through the company Wend noise control. The end users of our built-in products are the USA, Germany, Peru, Russia, Uzbekistan, etc.

STANDARDS

EN 779:2012

EN 779:2012 Standard classifies air filters according to the lowest filtration efficiency. Particle size that forms a basis to the efficiency is regarded as 0,4 μm and filters are separated into three groups; G, M and F.

EN 779 2012 CLASSIFICATION					
Group	Class	Final Pressure Drop (Pa)	Average Arrestance of ASHRAE test dust (%)	Average Efficiency (Em) of 0,4 μ Particles (%)	Minimum Efficiency of 0,4 μ Particles (%)
Course	G1	250	50 \leq Am<65	-	-
	G2	250	65 \leq Am<80	-	-
	G3	250	80 \leq Am \leq 90	-	-
	G4	250	90 \leq Am	-	-
Medium	M5	450	-	40 \leq Em<60	-
	M6	450	-	60 \leq Em<80	-
Fine	F7	450	-	80 \leq Em<90	35
	F8	450	-	90 \leq Em<95	55
	F9	450	-	95 \leq Em	70

ISO 16890

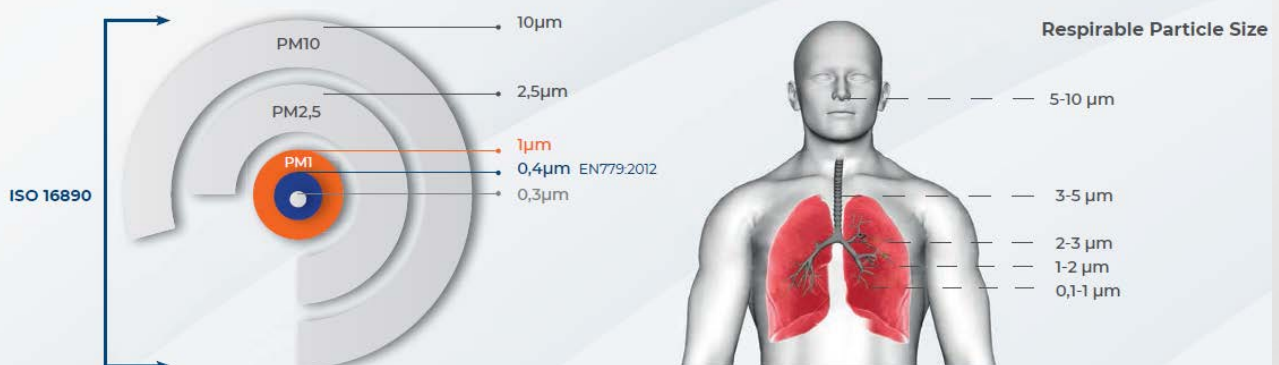
ISO 16890 Standard is a global testing standard that entered into force in the year 2018.

ISO 16890 Standard, used for the classification of air filters has replaced EN 779:2012 Standard.

The ISO 16890 Standard divides air filters into four groups. The prerequisite for each group is for the filter to capture at least 50% of the appropriate particle size.

FILTER GROUPS				
ISO GROUP	Min. Requirement			Class Reporting Value 0,4 μ Particles (%)
	ePM1 min.	ePM2.5 min.	ePM10 min.	
ISO Coarse	-	-	<50%	Initial gravimetric arrestance
ISO ePM10	-	-	\geq 50%	ePM10
ISO ePM2.5	-	\geq 50%	-	ePM2.5
ISO ePM1	\geq 50%	-	-	ePM1

PARTICLE DIAMETER SIZE RANGE	
Efficiency	Size Range
ePM10	0,3 \leq x \leq 10
ePM2.5	0,3 \leq x \leq 2.5
ePM1	0,3 \leq x \leq 1



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ISO 16890

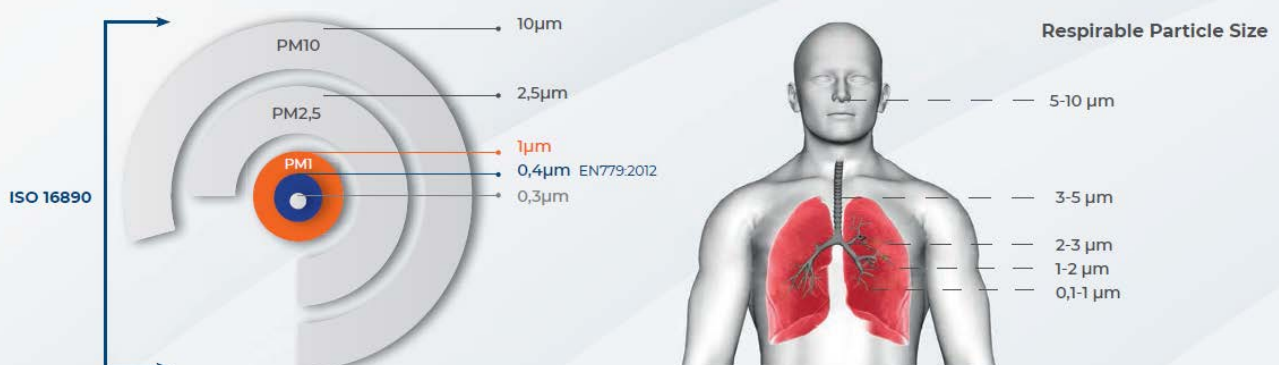
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STANDARDS

COMPARISON OF EN 779:2012 and ISO 16890 STANDARDS

	EN 779:2012	EN ISO 16890
Partical size for classification	0,4µm	from 0,3 to 1µm (PM1) from 0,3 to 2,5µm (PM2,5) from 0,3 to 10µm (PM10)
Test aerosol	DEHS	DEHS / from 0,3 to 1µm KCL / from 1 to 10µm
Electrostatic discharge with IPA (Isopropanol)	Media is fully immersed	Sample (entire filter) is conditioned with IPA vapour
Eciency of discharged filter	Comparison of media and filter	Average e ciency of treated and untreated (conditioned) filter
Dust feed for classification	Incremental dust feed	Classification without dust feed
Test dust for ISO coarse and energy eciency	ASHRAE	ISO fine
Dust feed	70 mg/m3	140 mg/m3
Test final differential pressure	G1, G2, G3, G4=250 Pa	PM 10 < 50%=200 Pa
	M5, M6, F7, F8, F9=450 Pa	PM 10 ≤ 50%=300 Pa
Classification	from G1 to G4 from M5 to M6 from F7 to F9	ISO Coarse ISO ePM 10 ISO ePM 2,5 ISO ePM 1

EN 1822

The EN 1822 Standart involves efficient, high-efficient and ultra-low permeability air filters (EPA, HEPA & ULPA) used in ventilating and air-conditioning, cleanroom technologies or applications in nuclear and pharmaceutical industries.

Their classification is based on the measuring of the size of particles (MPPS) passing to the clean side at a specific air speed.

FILTER CLASSIFICATION	EFFICIENCY (%)@MPPS		PENETRATION (%)@MPPS	
	Overall Value	Local Value	Overall Penetration	Local Penetration
EN 1822	Overall Value	Local Value	Overall Penetration	Local Penetration
E10	≥85%	-	≤15%	-
E11	≥95%	-	≤5%	-
E12	≥99.50	-	≤0.5%	-
H13	≥99.95%	≥99.75	≤0.05%	≤0.25%
H14	≥99.995%	≥99.975	≤0.005%	≤0.025%
U15	≥99.9995%	≥99.9975	≤0.0005%	≤0.0025%
U16	≥99.99995%	≥99.99975	≤0.00005%	≤0.00025%
U17	≥99.999995%	≥99.9999	≤0.000005%	≤0.0001%

AIR FILTER MEDIA

Roll Filters

DUSTMAX

Synthetic Fiber Roll Filter



Efficiency:

EN779:2012 : G2 , G3 & G4
ISO 16890: ISO COARSE

- Made of %100 polyester randomly arranged fibres
- The materials are nonflammable, self-extinguishing and harmless to health.

SF600S

Synthetic Fiber Roll Filter



Efficiency:

EN779:2012 : M5
ISO 16890: ISO COARSE

- Synthetic media is applied with solid adhesives
- Surface is affixed with high intensity fiber glass nets.

SFA 500

Glass Fiber Roll Filter



Efficiency:

EN779:2012 : G3-G4 ISO
16890: ISO COARSE

- Progressively structured glass fibre filter media designed for the filtration of solvent-based paint and lacquer particles
- High dust and paint holding capacity.

POLFIL

Polyurethane Filter Foam



Efficiency:

EN779:2012 : G2-G3 ISO
16890: ISO COARSE

- Polyurethane filter foam available in sheets, pre-cut pieces
- Varying densities designated from 10ppi to 45ppi.

COARSE FILTERS

Panel Filters

PANSET GS

Metal Frame Cassette Filter



Efficiency:

EN779:2012 : G4
ISO 16890: ISO COARSE

- Extended surface prefilter with galvanized frame
- Synthetic fiber filter media with both side extended mesh.

PANSET KM

Disposable Panel Filter



Efficiency:

EN779:2012 : G4
ISO 16890: ISO COARSE

- Extended surface prefilter with cardboard frame
- One side mesh laminated synthetic fiber filter media.

PANPLEAT KH

Disposable Rigid Pleat Panel Filter



Efficiency:

EN779:2012 : G4
ISO 16890: ISO COARSE

- Extended surface prefilter with cardboard frame
- Self support progressive synthetic fiber filter media.

PANSET KC

Disposable Panel Filter



Efficiency:

EN779:2012 : G2
ISO 16890: ISO COARSE

- Prefilter with cardboard frame for coarse dust filtration
- Progressively arranged glass fiber filter media.

COARSE FILTERS

Fan Coil Filters

FANSET GS

Metal Frame Fan-Coil Filter



Efficiency:

EN779:2012 : G3
ISO 16890: ISO COARSE

- Primary filter with 6 to 10 mm thick metal frame
- Synthetic fiber filter media with both side mesh.

FANSET CS

Metal Rod Frame Fan-Coil Filter



Efficiency:

EN779:2012 : G3
ISO 16890: ISO COARSE

- Prefilter with metal 3 to 6mm thick wire rod frame
- Synthetic fiber filter media stitched to frame.

FANSET GP

Washable Fan-Coil Filter



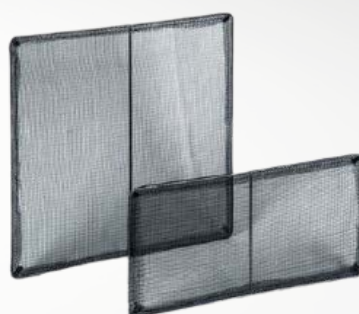
Efficiency:

EN779:2012 : G2
ISO 16890: ISO COARSE

- Washable prefilter with 6mm to 10mm thick metal frame
- Washable polyurethane filter foam with both side mesh.

FANSET CB

Washable Rod Frame Fan-Coil Filter



Efficiency:

EN779:2012 : G2
ISO 16890: ISO COARSE

- Washable filter with 3mm to 6mm thick wire rod frame
- Washable PP Nylon mesh filter media stitched to frame.

COARSE FILTERS

Washable Panel Filters

PANSET GP

Metal Frame Washable Casette Filter



Efficiency:

EN779:2012 : G2
ISO 16890: ISO COARSE

- Extended surface prefilter with galvanized frame
- Washable polyurethane filter foam with both side metal mesh.

PANPLEAT PH

Plastic Frame Rigid Pleat Panel Filter



Efficiency:

EN779:2012 : G4
ISO 16890: ISO COARSE

- Extended surface prefilter with plastic frame
- Self support progressive synthetic fiber filter media

DURAPAN ZX

Metal Filter For Grease Separation



Efficiency:

EN779:2012 : G2
ISO 16890: ISO COARSE

- Prefilter for grease elimination and oil mist separation
- Metal frame with aluminum extended metal mesh.

DURAPAN DX

Metal Filter For Grease Separation



Efficiency:

EN779:2012 : G2
ISO 16890: ISO COARSE

- Prefilter for high capacity dust and grease elimination
- Multi layer knitted aluminum metal mesh as filter media.

MEDIUM & FINE FILTERS

Bag Filters

DURABAG GS

Primary Bag Filter



Efficiency:

EN779:2012 : G3 - G4
ISO 16890: ISO COARSE

- Metal frame bag filter for primary filtration
- Synthetic fiber filter media for high dust holding capacity.

DURABAG GT

Rigid Pocket Bag Filter



Efficiency:

EN779:2012 : G4 – M6
ISO 16890: ISO Coarse, ISO ePM10

- Plastic frame bag filter for medium filtration
- Rigid pockets made with %100 progressive polyester media.

ULTRABAG GC

Glass Fiber Media Bag Filter



Efficiency:

EN779:2012 : M5 - F9
ISO 16890: ISO ePM10 - ISO ePM1

- Metal or plastic frame bag filter for fine filtration
- Stitched pockets made by glass fiber filter media.

FINEBAG GS

Synthetic Media Bag Filter



Efficiency:

EN779:2012 : M5 - F8
ISO 16890: ISO COARSE

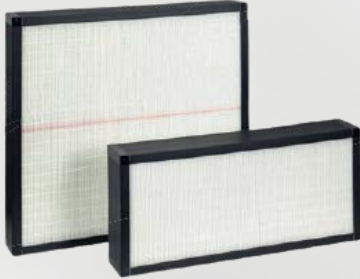
- Metal or plastic frame bag filter for fine filtration
- Ultrasonically-welded pockets made by synthetic fiber filter media

MEDIUM & FINE FILTERS

Rigid Panel Filters

RIGIPAN PN/PL

Mini Pleat Rigid Panel Filter



Efficiency:

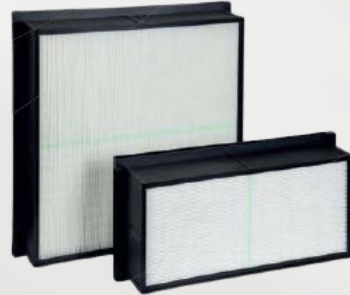
EN779:2012 : M5 - F9

ISO 16890: ISO ePM10 - ISO ePM1

- Metal or plastic frame mini pleated rigid panel filter
- Microglass fiber filter media with hotmelt separator.

RIGICELL PN / PL

Rigid Panel Filter with Header



Efficiency:

EN779:2012 : M5 - F9

ISO 16890: ISO ePM10 - ISO ePM1

- Rigid panel filter with header type plastic or metal frame
- Microglass fiber filter media with hotmelt separator.

RIGIBAG PS

V Type Rigid Bag Filter



Efficiency:

EN779:2012 : M6 - F9

ISO 16890: ISO ePM10 - ISO ePM1

- Mini pleated compact filter for fine filtration
- Microglass fiber filter media with hotmelt separator.

RIGIBAG PM

V Type Rigid Bag Filter



Efficiency:

EN779:2012 : F7 - F9

ISO 16890: ISO ePM10 - ISO ePM1

- High capacity V type rigid bag filter with plastic frame
- Avaible with plastic protection mesh and PU gasket.

FINE FILTERS

Rigid & Deep Pleat Filters

RIGIBAG GS

Metal Frame V Type Rigid Bag Filter



Efficiency:

EN779:2012 : M6 - F9

ISO 16890: ISO ePM10 - ISO ePM1

-V Cell rigid bag filter with metal frame for high temperature

-Microglass fiber filter media with hotmelt separator.

RIGIHIGH G30 / G40

High Capacity Rigid Panel Filter



Efficiency:

EN779:2012 : M6 - F9

ISO 16890: ISO ePM10 - ISO ePM1

-V module rigid panel filter with galvanized or plastic frame

-Ultra high surface area for high airflow rate.

RIGI AS

Aluminum Separator Rigid Filter



Efficiency:

EN779:2012 : M6 - F8

ISO 16890: ISO ePM10 - ISO ePM1

-Deep pleat panel filter with metal frame or MDF frame

-Microglass fiber filter media with corrugated aluminum separator.

RIGI AS HT

High Temperature Rigid Filter



Efficiency:

EN779:2012 : M6 - F8

ISO 16890: ISO ePM10 - ISO ePM1

-High temperature filter with metal frame.

-Available with single, double header or without header.

HEPA & ULPA FILTERS

HEPAFIL MX / MH

MDF Frame HEPA Filter



Efficiency:

EN1822: E10-H14

-HEPA filter with MDF frame and PU endless gasket
-Mini pleated micro glass fiber filter media with hotmelt separator.

HEPAFIL GX / GH

Metal Frame HEPA Filter



Efficiency:

EN1822: E10-H14

-HEPA filter with metal frame and PU endless gasket
-Available with different air flow capacity with low pressure drop.

HEPA AS

Aluminum Separator HEPA Filter



Efficiency:

EN1822: E10-H14

-Absolute filter with increased temperature resistance
-Microglass fiber filter media with corrugated aluminum separator.

HEPAHIGH G30 / G40

High Capacity HEPA Filter



Efficiency:

EN1822: E10-H14

-HEPA filters with max. air flow capacity and media area
-Available in galvanized, stainless steel and plastic frame.

HEPA & ULPA FILTERS

HEPAFLO AN / AM / AL

Laminar Flow HEPA Filter



Efficiency:

EN1822: E10-U15

- Final filters in cleanrooms, laminar flow units, etc
- Extruded aluminium frame with protection mesh.

HEPAGEL AN / AM / AL

GEL Gasket HEPA Filter



Efficiency:

EN1822: E10-U15

- Final filters in cleanrooms, laminar flow units, etc
- Extruded aluminium frame with polyurethane gel seal.

HEPATERM SX / DX

Terminal HEPA Filter



Efficiency:

EN1822: E10-U15

- Terminal HEPA filter for individually ducted cleanrooms
- Available with many collar diameters.

HEPAFAN

FFU - FAN Filter Unit



Efficiency:

EN1822: E10-U15

- Fan Filter Units for construction of cleanrooms
- Available with replaceable filter module and variable speed control.

FILTER HOUSING FRAME

FILFIX G75/G100/G125

Filter Housing Frame



Filter Housing Frame

- Enables the installation of the filters easily and safely
- Available with galvanized and stainless steel metal

HEPAFIX GX

HEPA Filter Housing Frame



Hepa Filter Housing Frame

- Enables the installation of HEPA filters into air supply units
- Leak free construction with gasket and tightening screws.

HEPABOX ST

HEPA Filter Housing Box



Hepa Filter Housing Frame

- Ceiling diffusers for terminal filtration
- Installation in ceilings using side or upper entry.

HEPABOX LC

HEPA Filter Housing Box - Low Ceiling



Hepa Filter Housing Frame

- HEPA Filter housing frame for low ceiling applications
- Easy and safe installation with four corner clamping device.

ACTIVATED CARBON FILTERS

CARBOPAN GS

Activated Carbon Panel Filter



Gas Phase Filtration

- Extended surface carbon prefilter with galvanized frame
- Activated carbon impregnated synthetic fiber filter media.

CARBOPAN DX

Activated Carbon Panel Filter



Gas Phase Filtration

- Adsorption of odour and gases in air conditioning devices
- Fully filled with activated carbon pellets with vibration technic.

RIGICARB

V Type Rigid Carbon Filter



Gas Phase Filtration ACTIVATED CARBON

- Pleated media with activated carbon between synthetic layers
- Compact, rigid construction for rapid installation.

CARBOSORB

Cylindrical Carbon Filter



Gas Phase Filtration ACTIVATED CARBON

- Cylindrical activated carbon cartridges
- Fully filled with activated carbon pellets with vibration technic.

PRUNUS

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