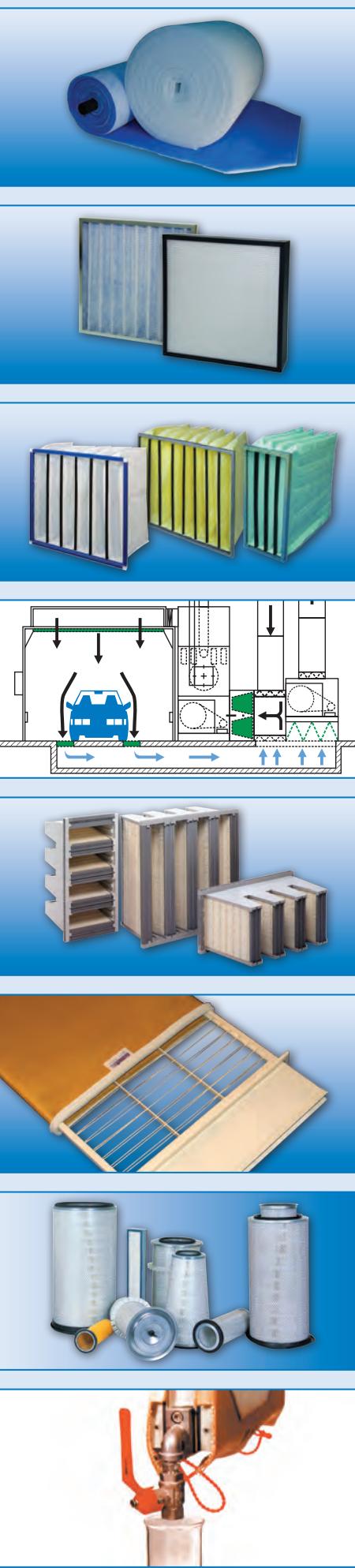
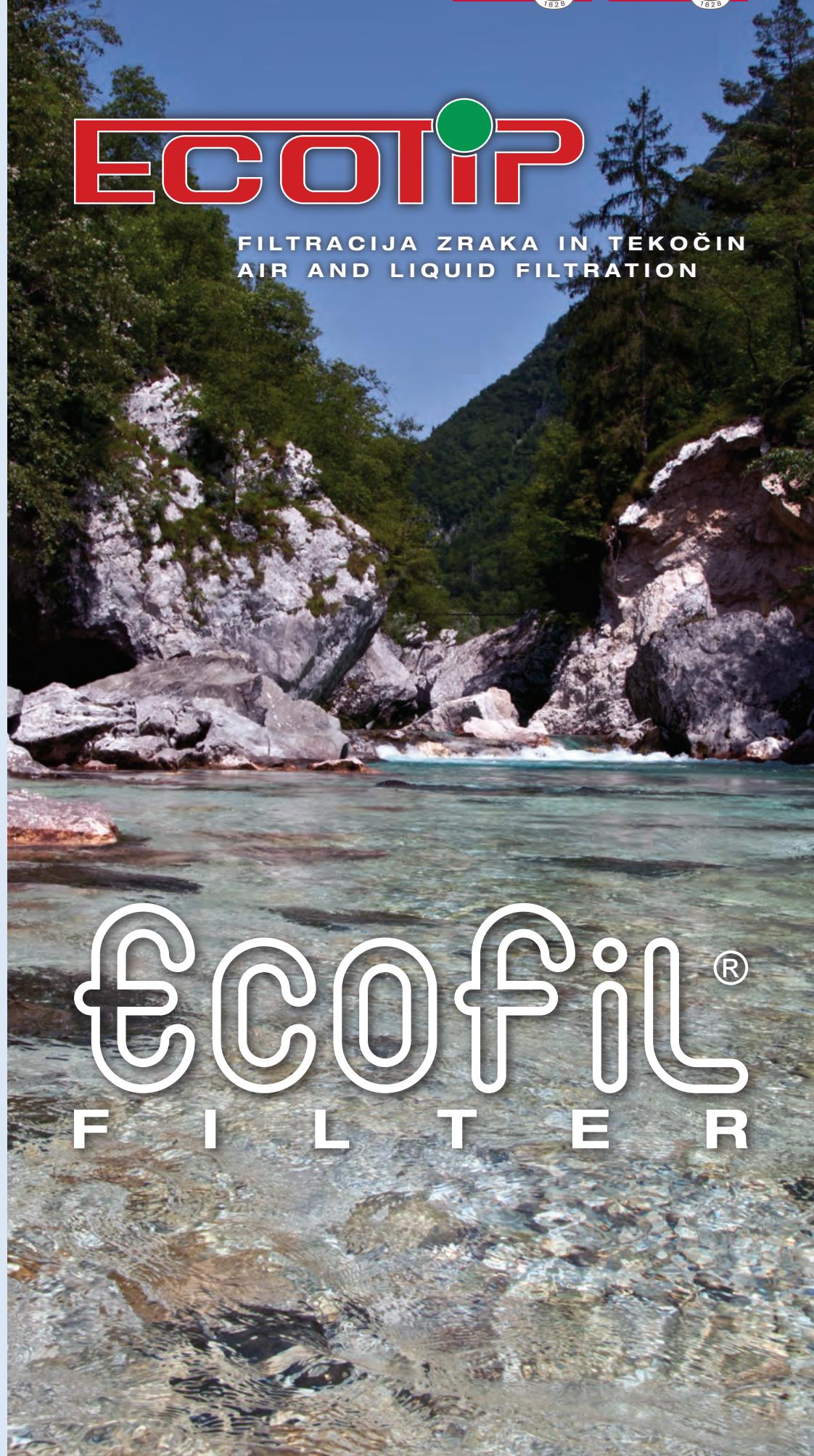


# ECOTIP

FILTRACIJA ZRAKA IN TEKOČIN  
AIR AND LIQUID FILTRATION



### predstavitev podjetja Ecotip about Ecotip company.....

**ECOTIP d.o.o.** je slovensko podjetje s sedežem v Slovenskih Konjicah. Naša osnovna dejavnost je proizvodnja **ECOFIL®** filterov v skladu s standardom EN 779:2011.

- Filtrski razred G1–G4 ... filtri za grobo filtriranje v ploščah, rolah in filter vreče;
- Filtrski razred M5–M6 in F7–F9 ... filtri za fino filtriranje v ploščah, rolah in filter vreče;
- V-filtri ... filtri za mikro filtracijo;
- Filtrski razred E10–E12, H13–H14 in U15–U17 ... absolutni filtri z možnostjo izbire preizkusa puščanja (Leak test) in točkovnega preizkusa (Scanning).

**ECOFIL®** filtre uporabljamo v mnogih državah sveta v različnih pogojih in za različne namene uporabe:

- **ECOFIL®** filtri za prezračevanje in klimatizacijo zraka v tovarnah, zgradbah, bolnišnicah, računalniških centrih, elektronski industriji ...
- **ECOFIL®** filtri za lakirne kabine kot predfiltr, talni filtri, stropni filtri in visoko temperaturno obstojni filtri za sušilce.
- **ECOFIL®** filtri za industrijsko filtracijo oz. odprševanje (cevni in vrečasti filtri) za različne pogoje in namene uporabe v farmacevtski industriji, cementarnah, proizvodnjah apna, železarnah, jeklarnah, tovarnah aluminija, lesni industriji, tovarnah pijač in sladkorja, livenah, sežigalnicah ...
- **ECOFIL®** filtri za filtracijo tekočin ... galvanizacija, prečiščevanje odpadnih voda, tovarne sladkorja in v ostalih industrijskih panogah.

**ECOFIL®** filtre proizvajamo v standardnih dimenzijah, le-te pa lahko prilagodimo vašim željam in potrebam, pri čemer vam tudi svetujemo.

S svojimi proizvodi se predstavljamo v tem katalogu z željo, da bi zadostili vašim potrebam. Z veseljem bomo odgovorili na vaša morebitna vprašanja, zato nikar ne odlašajte in stopite v stik z nami.

**ECOTIP d.o.o. (Ltd.)** is a Slovenian manufacturer with headquarters in Slovenske Konjice. Our main activity is production of **ECOFIL®** filters according to EN 779:2011 standard as follows:

- Filter class G1–G4 ... filters for coarse filtration in pads, rolls and filtering bags.
- Filter class M5–M6 and F7–F9 ... fine filters in sheets and filtering bags.
- Rigid V filters for micro filtration.
- Filter class E10–E12, H13–H14 and U15–U17... Absolute filters with leak and scan tests, on request.

**ECOFIL®** filters are used in many countries all over the world and applications are as follows:

- **ECOFIL®** filters for ventilation and air-conditioning in plants, buildings, hospitals, computer centers, electronic industry etc.
- **ECOFIL®** filters for spray booths, floor filters, ceiling filters and high temperature resistant filters for driers.
- **ECOFIL®** filters for industrial dust extraction (tube filters and filtering bags) for different industrial applications such as pharmacy, cement plants, lime plants, iron and steel plants, aluminium, wood and beverage industries, sugar factories, foundries, incinerators, etc.
- **ECOFIL®** filters for the filtration of liquids... galvanization, wastewater treatment, sugar factories, and other areas of industry.

**ECOFIL®** filters are produced in standard dimension which can be adapted according to your individual requirements together with our advice.

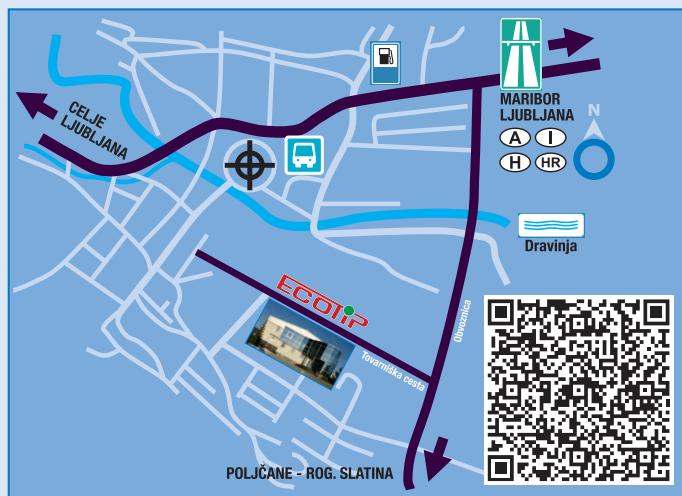
Details of our products are available in this catalogue. We hope that they will meet with your approval and if you have any further questions, please do not hesitate to contact us.



**ECOTIP d.o.o.**  
Tovarniška cesta 4 A  
SI - 3210 Slovenske Konjice  
Slovenija | Slovenia

T +386 (0)3 75 80 300  
F +386 (0)3 75 80 305

E ecotip@ecotip.si  
W www.ecotip.si





Način obratovanja I Uporaba Operation modus I Application	DIN 24185/ EN779	Filtrirni razred Filter class	Material zračnega filtra Air filter material	Nadomestilo za rol filtre Roll filters replacement	Kasetni filtri Cassette filters	Vrečasti filtri Filtering bags	Enote zračnih filtrov Air filter units
		role, plošče rolls, pads	vsi sistemi all systems	Za vgradnjo v stene in kanale kot tudi za uporabo v enotah za prezračevanje For installing into walls and channels, as well as for air handling units			
Grobi prašni filtri za filtracijo zelo grobega prahu. Coarse dust filters for the filtration of very coarse dust.	GROBI FILTRI    COARSE FILTERS	<b>G1</b> 65 %					
Predfiltrti za visoke koncentracije prahu. Naprave za prezračevanje in klimatizacijo z majhnimi zahtevami glede kakovosti zraka. Prezračevanje hal, na primer v jeklarnah in železarnah. Pre-filters for high dust concentrations. Ventilators and air-conditioners with low requirements for air quality. Ventilation of large industrial areas, for example in the iron and steel industry.		<b>G2</b> 80 %	0514				
Predfiltrti za prezračevanje in klimatizacijo zraka. Filtri za prezračevanje tovarn v procesni industriji, na primer za prezračevanje prostorov, v katerih so motorji, ali za zaščito strojev. Predfiltrti za zaščito visokozmogljivih filtrskih naprav. Pre-filters for ventilation and air conditioning. Filters for ventilation of plants in the processing industry, for example, ventilating engine rooms or to protect machines. Pre-filters for protection of high-capacity filtering devices.		<b>G3</b> 90 %	2020B	Sintetika Synthetics 1521R	Kasetni filtri - 30 Cassette filters - 30	FV-30	Pleated 30
Filtri za ločevanje finega prahu pri prezračevalnih napravah ter predfiltrti in končni filtri na industrijskem in komercialnem področju, kjer je zahtevana visoka stopnja čistosti zraka. Veleblagovnice, restavracije, zbornice, prezračevanje prostorov, kjer je nameščena občutljiva tehnologija, klinike, sprememni prostori v bolnišnicah, predfiltrti za višjo kakovost zraka. Filters for separating fine dust in air handling units as pre- and final filters in industrial and commercial fields, where a high purity of air is required. Department stores, restaurants, assembly rooms, ventilation of rooms containing sensitive technology, medical clinics, hospital yards, pre-filters for higher quality of air.		<b>G4</b> ≥ 40 %	1525 2040	Sintetika Synthetics 1525	Kasetni filtri - 40 Cassette filters - 40	FV-40	Pleated 40
Filtri za ločevanje finega prahu pri visoko kakovostnih napravah za prezračevanje in klimatizacijo, na primer v industriji računalniške opreme, farmacevtski in fotografski industriji, pri obdelavi občutljivih površin v avtomobilski industriji, bolnišničnih sobah in laboratorijih. Filters for separation of fine dust in high quality air ventilation and air conditioning units, for example, in the computer industry, pharmaceutical and photographic industries, surface-finishing technology in the automobile industry, hospital rooms, and laboratories.		<b>M5</b> 60 %	2025M CC600G-10 VA600G-10		Kasetni filtri - 50 Cassette filters - 50	FV-50 FV-50K	Pleated 50
Fini filtri v sistemih s čistim zrakom, kjer veljajo zelo visoke zahteve po čistosti zraka, filtri za zaščito visoko kakovostne strojne opreme, na primer v montažnih halah, prostorih z občutljivimi mehanizmi, pri proizvodnji hrane, predfiltrti za absolutne filtre, brezhibno čiste sobe, na primer v farmacevtski industriji, v proizvodnji mikrocipov in v operacijskih dvoranah. Fine filters in systems with clean air and requiring extremely high air purity, filters for the protection of high quality machines, for example, in assembly rooms, rooms with sensitive equipment, in food processing, pre-filters for absolute filters, sterile rooms, for example, in the pharmaceutical industry, in the production of microchips and hospital operating theatres.	FINI FILTRI    FINE FILTERS	<b>M6</b> 80 %	F70			FV-70	V-filtri V-filters
<b>F 7</b> 90 %		F85			FV-85	V-filtri V-filters	
<b>F 8</b> 95 %		F90					
<b>F 9</b>		F95			FV-95	V-filtri V-filters	

Tip / Type	0514	2020B	1525	2040	2025M
Filtrski razred Filter Class..... EN 779:2011	G2	G3	G4	G4	M5
Material Material .....	Sintetika Synthetics	Sintetika Synthetics		Sintetika Synthetics	
Pralno Washable .....	Da Yes	Da Yes		Da Yes	
Oblika proizvoda ..... Product form	Rola   Plošča Roll   Pad	Rola   Plošča Roll   Pad	Rola   Plošča Roll   Pad		
	Sintetični termično spojeni vlaknasti flis, samougasljiv v skladu z DIN 53 438, razred F1. Synthetic thermally bonded fibre fleece, self-extinguishing according to DIN 53 438, class F1.	Progresivno strukturiran material, narejen iz termično spojenih sintetičnih vlaken. Samougasljiv v skladu z DIN 53 438, razred F1. Progressively structured material, made of thermally bonded synthetic fibres. Self- extinguishing according to DIN 53 438, class F1.	Večslojni material iz sintetičnih vlaken spremenljive gostote, termično spojen in laminiran. Razporeditev vodi k razvrstitvi prahu po celotni globinski sestavi. Samougasljiv v skladu z DIN 53 438, razred F1. Multilayer of synthetic fibres of varying density that are thermally bonded and laminated. The arrangement leads to grading of dust all over the depth structure. Self-extinguishing according to DIN 53 438, class F1.		
Tehnični podatki o filterih v skladu z EN 779:2011 ..... Filter's technical data according to EN 779:2011					
Samougasljiv v skladu z DIN 53 438, razred F1 ..... Self-extinguishing according to DIN 53 438, Class F1	Nominalni volumen zraka [m³/h] 5.400 Nominal air volume	5.400	3.600	2.520	2.520
Povprečno zadrževanje prahu [%] 72 Average dust arrestance		88,10	91,80	94	97,80
Povprečna učinkovitost [%] / prašnih delcev Average dust particle efficiency		/	/	/	53,20
Začetni padec tlaka [Pa] 13 Initial pressure drop		35	46	60	38
Priporočeni končni padec tlaka [Pa] 250 Recommended final pressure drop		250	250	250	450
Temperatura obratovanja [°C] 100 Operational temperature		100	100	100	100
Globina [mm] 5 Depth		20	12	20	12

### primarna filtracija primary filtration

#### Kasetni filter

#### Cassette filter

#### Kasetni filter

#### Cassette filter

#### Kasetni filter

#### Cassette filter

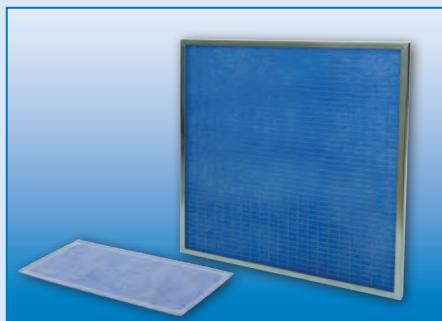
30R

30

40

50R

50



To so ploščate filter kasete iz filter materiala, debeline 12 mm. Običajno se uporabljajo za prezračevalne naprave v standardnih debelinah 11, 20 in 25 mm.

**Flat filter plate cassettes made of filter material, 12 mm thick. They are usually used in air conditioning units at a standard thickness of 11, 20 and 25 mm.**



Plisirana različica filtra, narejena iz »Ecofil® 1525«. Specialna guba daje tej celici visoko propustnost zraka in večjo kapaciteto zadrževanja prahu kot pri ravni izvedbi. Prodajajo se v različnih velikostih - standardih debeline 48 mm in 98 mm.

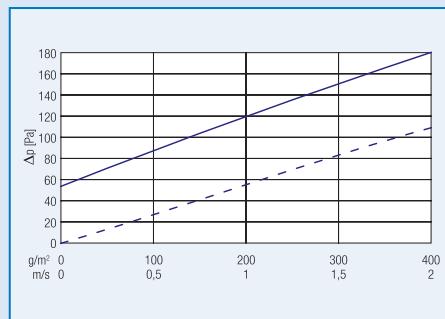
**Pleated version of a filter, made of »Ecofil® 1525«. Special pleating ensures this cell has a high air-flow rate and a greater dust holding capacity than the flat version. It is sold in different sizes - in standard thicknesses of 48 and 98 mm.**



Filter kasete so narejene iz visoko učinkovitega filtra v razredu M5. V zahtevni predfiltraciji jih uporabljamo v ravni ali plisirani različici. Prodajajo se v standardnih in nestandardnih velikostih in v različnih debelinah.

**Filter cells are made of high efficiency medium in M5 classes. In demanding preliminary filtration they are used in either the flat version, or in the pleated version. They are sold in standard and non-standard sizes, and in various thicknesses.**

Samougasljiv v skladu z DIN 53 438, razred F1  
**Self-extinguishing according to DIN 53 438, Class F1**



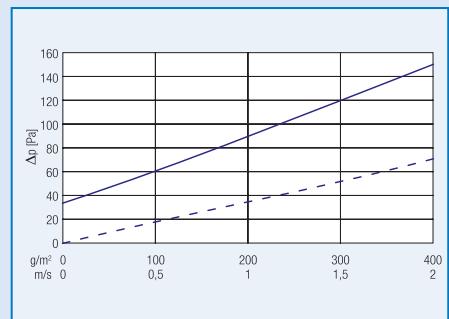
Razred  
Class

Samougasljiv v skladu z DIN 53 438, razred F1  
**Self-extinguishing according to DIN 53 438, Class F1**

Pretok na filtrske enoto Air flow [m³/h]					
Hitrost zraka Air velocity	1 m/s	1,5 m/s	2 m/s	2,5 m/s	
Dimenzije Dimensions	h=50	h=100	h=50	h=100	h=50 H=100
287×592 [mm]	950	1150	1400	1700	1900 2300 2400 2900
490×592 [mm]	1600	2000	2450	2950	3250 3950 4050 4900
592×592 [mm]	1950	2400	2950	3550	3900 4750 4950 5900
287×287 [mm]	450	600	700	850	950 1150 1250 1450
Δp [Pa]	23	39	62	95	

G3

Samougasljiv v skladu z DIN 53 438, razred F1  
**Self-extinguishing according to DIN 53 438, Class F1**



G4

M5

Okvir  
Frame

Kovinski  
Metallic

Tip medija  
Medium type

1525

Zadrževanje  
Arrestance

87,50

Učinkovitost  
Efficiency

/ /

Hitrost  
Velocity

1,50

Δ padec tlaka  
Δ pressure drop

25

T max  
T max

100

Kovinski  
Metallic

1525

87,50

/

1,50

25

100

Kovinski  
Metallic

2025M

96

48

1,50

49

100

## .....funkcionalnost in kakovost functionality & quality

Kasetni filtri ECOTIP Ecofil® v filtrskih razredih G4, M5–M6 in F7–F9/EN 779:2011 s pomočjo večslojnih vlknastih flisov zagotavljajo učinkovito čiščenje zraka z majhnimi tlačnimi razlikami. Nov tip okvirja iz fiberplasta omogoča dobro tesnjenje filtra, visoko obstojnost, natančnost in ekološko odstranjevanje ostankov s sežiganjem.

ECOTIP Ecofil® filter cells in the filter classes G4, M5–M6 and F7–F9/EN 779:2011 guarantee effective air filtration and low pressure differences with the aid of a multilayer synthetic micro spun bond. This new type of frame made of fibreplast enables a good sealing of the filter medium, high stiffness, and dimensional stability, as well as the possibility of burning with no residue.

### Visoka kakovost izdelave



### High production processing standard

ECOFIL® kasetni filtri so odporni proti vlagi, odbijajo vodo in so mikrobiološko inertni. Uporaba sintetičnih materialov v skladu z zahtevami VDI 6022 omogoča higiensko neoporečno obratovanje filtra.

ECOFIL® filter cells are resistant to humidity, waterproof and microbiologically inert. The application of synthetic materials in compliance with VDI 6022 enables a perfect, hygienic filter operation.

### Minimalne tlačne razlike

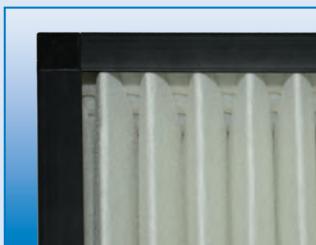


### Minimal pressure differences

ECOTIP Ecofil® kasetni filtri imajo trikrat večjo površino kot običajni. Zaradi tega so hitrosti skozi filtrski medij nižje, tlačne razlike pa manjše. Stroški energije so tako bistveno nižji.

The surface of ECOTIP Ecofil® filter cells is triple that of the ordinary ones. It causes lower filter medium velocity, and smaller pressure differences. The energy costs are, therefore, essentially lower.

### Visoka varnost filtra



### High filter safety

Zaradi uporabe »hot-melt« lepljenja, ki ne prepušča delcev, je tesnost med filtrskim medijem in okvirjem maksimalna. To omogoča čiščenje zraka tudi na robnem predelu filtra.

The use of hot-melt adhesion prevents particles flowing through and means maximal tightness between the filter medium and the frame. It enables air to also flow through the edges of the filter.

### Optimirana geometrija plisejev

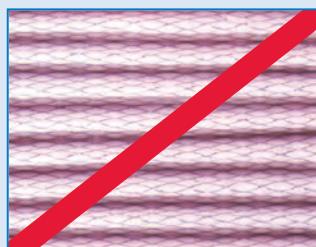
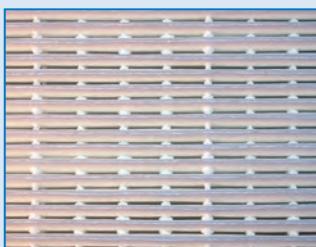


### Optimized geometry of the pleating system

Bistveni prednosti ECOTIP Ecofil® kasetnih filtrov sta enakomernost in dostopnost do filtrskega medija. Pliseji, položeni v obliki črke »V«, omogočajo maksimalen globinski učinek.

The essential advantages of the ECOTIP Ecofil® filter cells are uniformity, and accessibility to the filter medium. Pleatings in "V" form enable maximal deep action.

### Maksimalna skladnost z okoljem



### Maximal environmental compatibility

Vse komponente Ecofil® filtra so izdelane iz kombinacije čistega poliestra in poliolefin. Filtrske medije so brez veziv, topil ali barvil.

All components of the Ecofil® filter are made of a combination of pure polyester and polyolefin. Filter media are free of fixing agents, solvents or colouring agents.

## FILTER

| 20 | 25 | 48 | 98 | - G4/M5 .....  
.....

## Opis

- Panelni filter Ecofil® z gosto plisiranim filtrskim medijem, izdelan iz sintetične mikro preje.
  - Možnost recikliranja s sežiganjem in možnost izvedbe brez kovin.
  - Nov sistem plisiranja Ecofil® z načinom vročega spajanja za izvedbo z nizkim začetnim uporom.
  - Posebna konstrukcija z okvirjem iz lepenke, kovine ali lesa in dodatno ojačitvijo.



## Description

- Ecofil® Panel Filter with closely pleated filter media made of synthetic micro spun bond.
  - Recycling by incineration possible, metal free design possible.
  - New Ecofil® pleating system using hot-melt traces for low resistance performance.
  - Special designs with cardboard, metal, or wooden frame and additional special reinforcing as well.

Tip Type	Velikost [ŠxVxG*] mm Size [WxHxD*] mm	Površina filtra (m <sup>2</sup> ) Filter Area (m <sup>2</sup> )				Območje nominalnega pretoka zraka Range of nominal airflow (100 %–125 %)
		20*	25*	48*	98*	
R40   R50	495x394x[G/D]*	1,00	1,10	1,86	2,57	1760–2190 m <sup>3</sup> /h
R40   R50	495x495x[G/D]*	1,15	1,26	2,34	3,14	2200–2750 m <sup>3</sup> /h
R40   R50	592x592x[G/D]*	1,44	1,80	3,39	4,36	3200–4000 m <sup>3</sup> /h
R40   R50	622x394x[G/D]*	1,00	1,30	2,34	3,03	2200–2750 m <sup>3</sup> /h
R40   R50	622x495x[G/D]*	1,09	1,60	2,94	3,74	2800–3500 m <sup>3</sup> /h

Dobava možna v različnih velikostih.

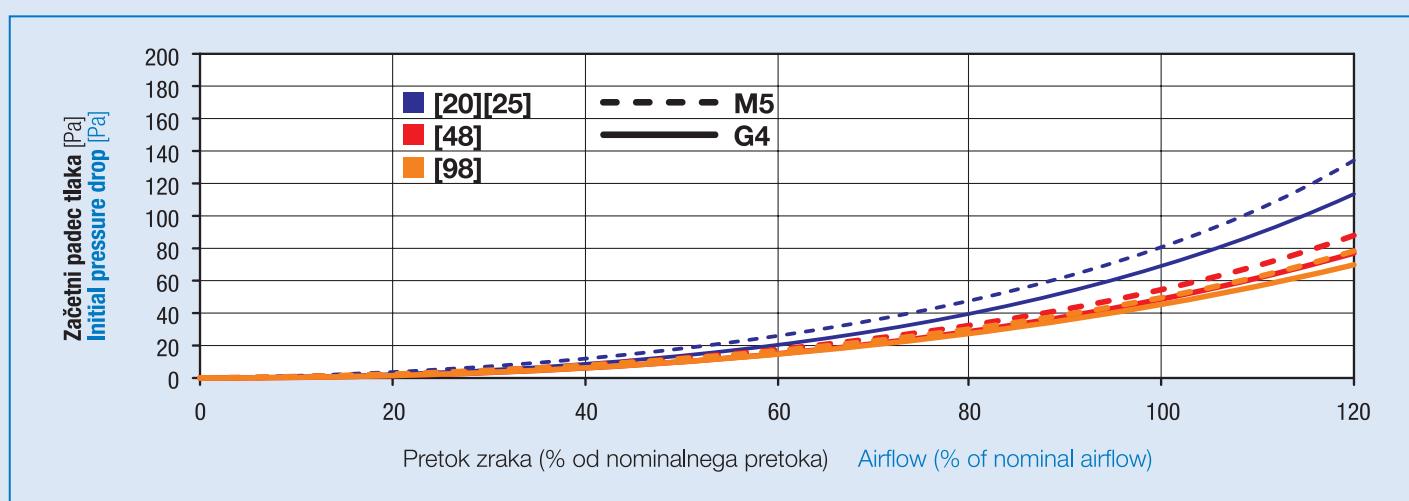
With different sizes available.

## Tehnični podatki

## Technical data

Filtrirni razred   Filter Class	EN 779:2011	G4	M5
Povprečna stopnja filtracije (sintetični prah)   Average arrestance (synthetic dust)	94 %	95 %	
Povprečna učinkovitost (atmosferski prah)   Average efficiency (atmospheric dust)	37 %	45 %	
Začetni padec tlaka pri 100 % nominalnem pretoku zraka   Initial pressure drop at 100 % nominal airflow	[G/D] = 20, 25 (mm)	70 Pa	80 Pa
	[G/D] = 48 (mm)	50 Pa	55 Pa
	[G/D] = 98 (mm)	45 Pa	50 Pa
Končni padec tlaka pri 100 % nominalnem pretoku zraka (prip.)   Final pressure drop at 100 % nominal airflow (recomm.)	20, 25, 48, 98 (mm)	250 Pa	450 Pa
Število slojev   Number of layers	1	1	
Maksimalna obratovalna temperatura   Maximal operation temperature	80 °C	80 °C	
Maksimalna obratovalna vlažnost (relativna vlaga)   Maximal operation moisture (relative humidity)	100 %	100 %	
Vnetljivost   Inflammability	DIN 53 438	F1	F1

Tehnični podatki so bili zbrani po naših najboljših močeh. Odgovornosti za podatke ne sprejemamo. Pridržujemo si pravico do tehničnih sprememb. Technical data are being compiled to the best of our knowledge. Responsibility cannot be accepted. We reserve the right of technical modifications.



..... | 20 | 25 | 48 | 98 | - M6/F7/F8/F9

## Opis

- Panelni filter Ecofil® z gosto plisiranim filtrskim medijem, izdelan iz sintetične mikro preje.
- Možnost recikliranja s sežiganjem in možnost izvedbe brez kovin.
- Nov sistem plisiranja Ecofil® z načinom vročega spajanja za izvedbo z nizkim začetnim uporom.
- Posebna konstrukcija z okvirjem iz plastike, lepenke, kovine ali lesa in dodatno ojačtvijo.



## Description

- Ecofil® Panel Filter with closely pleated filter media made of synthetic micro spun bond.
- Recycling by incineration possible, metal free design possible.
- New Ecofil® pleating system using hot-melt traces for low resistance performance.
- Special designs with plastics, cardboard, metal, or wooden frame and additional special reinforcing as well.

Tip Type	Velikost [ŠxVxG*] mm Size [WxHxD*] mm	Površina filtra (m <sup>2</sup> ) Filter Area (m <sup>2</sup> )				Območje nominalnega pretoka zraka Range of nominal airflow (100 %–125 %)
		20*	25*	48*	98*	
R70   R85   R90	495×394×[G/D]*	1,00	1,10	1,86	2,57	1760–2190 m <sup>3</sup> /h
R70   R85   R90	495×495×[G/D]*	1,15	1,26	2,34	3,14	2200–2750 m <sup>3</sup> /h
R70   R85   R90	592×592×[G/D]*	1,44	1,80	3,39	4,36	3200–4000 m <sup>3</sup> /h
R70   R85   R90	622×394×[G/D]*	1,00	1,30	2,34	3,03	2200–2750 m <sup>3</sup> /h
R70   R85   R90	622×495×[G/D]*	1,09	1,60	2,94	3,74	2800–3500 m <sup>3</sup> /h

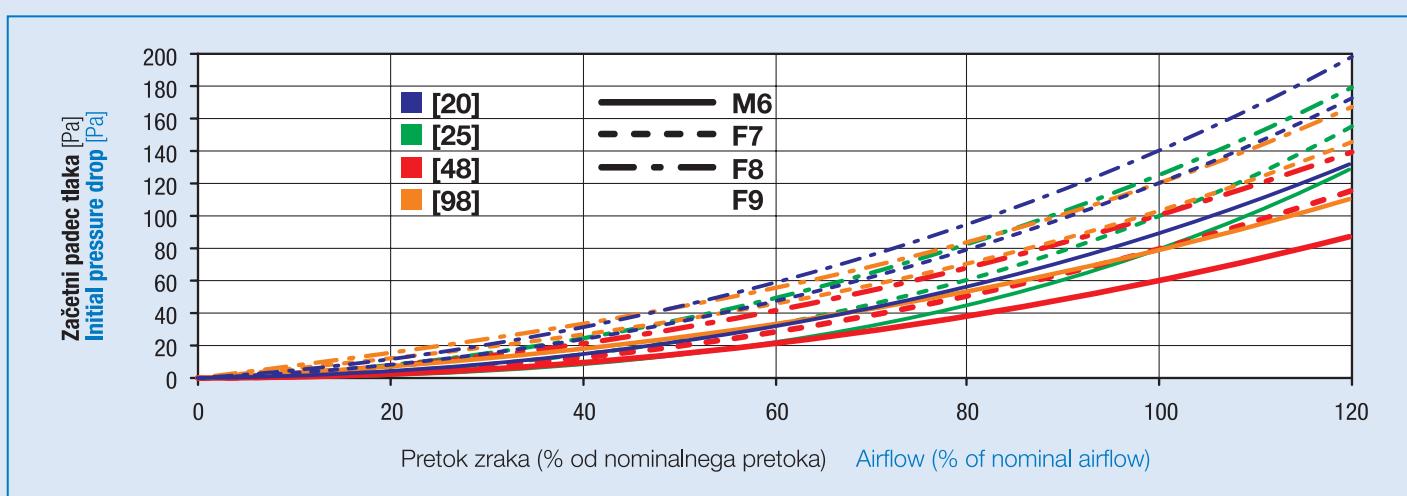
Dobava možna v različnih velikostih.  
With different sizes available.

## Tehnični podatki

## Technical data

Filtrirni razred   Filter Class	EN 779:2011	M6	F7	F8
Povprečna stopnja filtracije (sintetični prah)   Average arrestance (synthetic dust)		95 %	98 %	99 %
Povprečna učinkovitost (atmosferski prah)   Average efficiency (atmospheric dust)		65 %	85 %	95 %
Začetni padec tlaka pri 100 % nominalnem pretoku zraka   Initial pressure drop at 100 % nominal airflow	[G/D] = 20 (mm)	90 Pa	120 Pa	140 Pa
	[G/D] = 25 (mm)	90 Pa	110 Pa	125 Pa
	[G/D] = 48 (mm)	60 Pa	80 Pa	100 Pa
	[G/D] = 98 (mm)	55 Pa	70 Pa	80 Pa
Končni padec tlaka pri 100 % nominalnem pretoku zraka (pripr.)   Final pressure drop at 100 % nominal airflow (recomm.)	20, 25, 48, 98 (mm)	450 Pa	450 Pa	450 Pa
Število slojev   Number of layers		1	1	1
Maksimalna obratovalna temperatura   Maximal operation temperature		80 °C	80 °C	80 °C
Maksimalna obratovalna vlažnost (relativna vlaga)   Maximal operation moisture (relative humidity)		100 %	100 %	100 %
Vnetljivost   Inflammability	DIN 53 438	F1	F1	F1

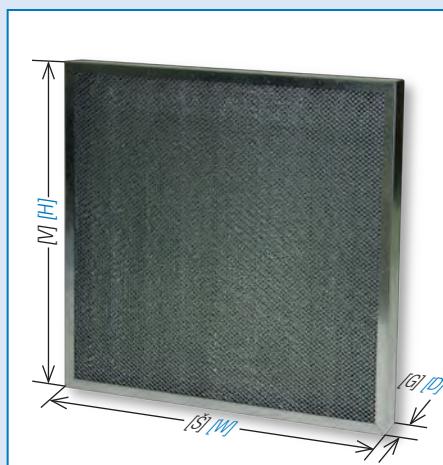
Tehnični podatki so bili zbrani po naših najboljših močeh. Odgovornosti za podatke ne sprejemamo. Pridržujemo si pravico do tehničnih sprememb.  
Technical data are being compiled to the best of our knowledge. Responsibility cannot be accepted. We reserve the right of technical modifications.



## GA/ALU | INO/INOX

## Opis

- Večslojni kovinski varjeni Ecofil® panelni filter
- Obojestranska ekspandirana kovinska mreža
- Obnovljiv, pralen
- GA ali ALU z galvaniziranim kovinskim okvirjem Ecofil® in aluminijastim večslojnim polnilom
- INO ali INOX z jeklenim okvirjem Ecofil® in nerjavečim večslojnim polnilom



## Description

- Ecofil® Panel Filter with welded metal multilayers
- Expanded metal screen on both sides
- Regenerable, washable
- GA or ALU with galvanized Ecofil® steel frame and aluminium multilayers
- INO or INOX with Ecofil® steel frame and stainless steel multilayers

Tip Type		Velikost [Š×V×G] mm Size [W×H×D] mm	Filtrirni razred Filter class	Območje nominalnega pretoka zraka Range of nominal airflow (100 %–125 %)
GA/ALU INO/INOX	20 592 592	592×592×20	G2	1900–2400 m³/h
GA/ALU INO/INOX	25 592 592	592×592×25	G2	1900–2400 m³/h
GA/ALU INO/INOX	48 592 592	592×592×48	G3	1900–2400 m³/h

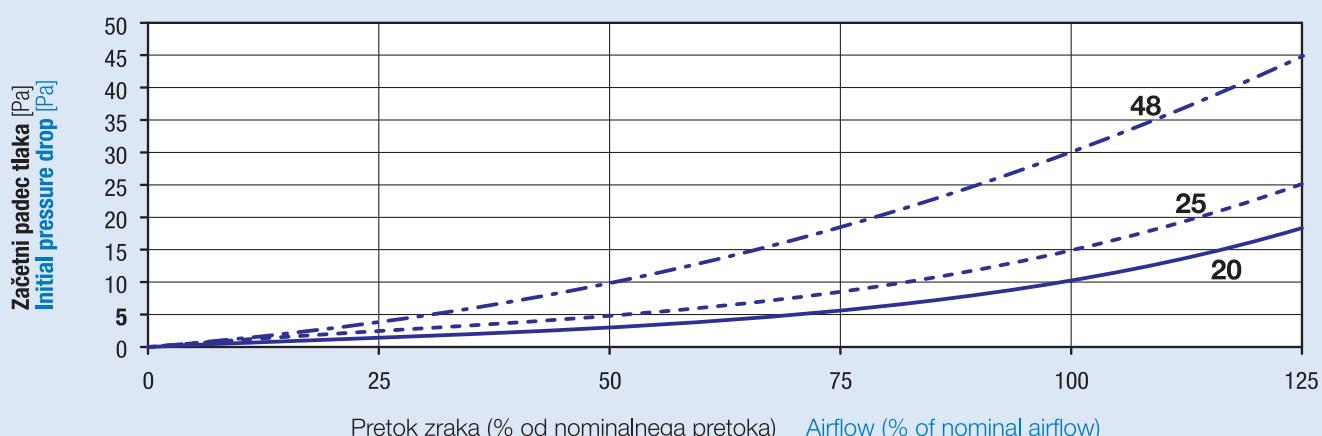
Dobava možna v različnih velikostih.  
With different sizes available.

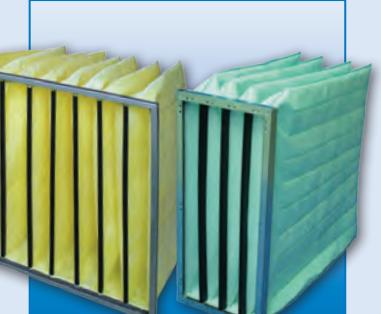
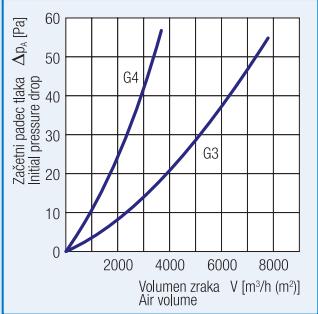
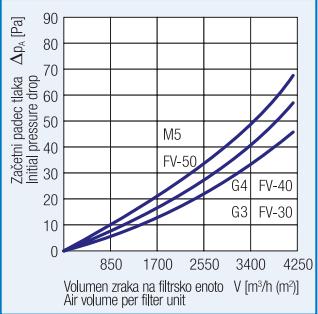
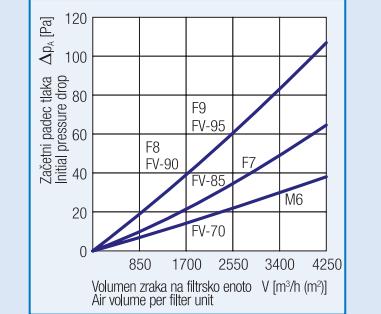
## Teknični podatki

## Technical data

Filtrirni razred   Filter Class	EN 779:2011	G2	G2	G3
Povprečna stopnja filtracije (sintetični prah)   Average arrestance (synthetic dust)		65 %	70 %	80 %
Povprečna učinkovitost (atmosferski prah)   Average efficiency (atmospheric dust)		—	—	—
Začetni padec tlaka pri 100 % nominalnem pretoku zraka   Initial pressure drop at 100 % nominal airflow		10 Pa	15 Pa	30 Pa
Končni padec tlaka pri 100 % nominalnem pretoku zraka (priporočljivo)   Final pressure drop at 100 % nominal airflow (recommended)		400 Pa	400 Pa	400 Pa
Globina filtra   Depth of filter		20 mm	25 mm	48 mm
Maksimalna obratovalna temperatura   Maximal operation temperature		400 °C	400 °C	400 °C
Maksimalna obratovalna vlažnost (relativna vlaga)   Maximal operation moisture (relative humidity)		100 %	100 %	100 %
Vnetljivost   Inflammability	DIN 53 438	F1	F1	F1

Tehnični podatki so bili zbrani po naših najboljših močeh. Odgovornosti za podatke ne sprejemamo. Pridržujemo si pravico do tehničnih sprememb.  
Technical data are being compiled to the best of our knowledge. Responsibility cannot be accepted. We reserve the right of technical modifications.



Tip / Type	Rol filter	Roll filter	Filter vreče	Filtering bags
Filtrski razred Filter Class..... EN 779:2011	G3 .....	G4	G3 .....	M5
Material Material.....	Sintetika/naravna vlakna Synthetics/Natural fibre		Sintetika Synthetics	Sintetika Synthetics
Pralno Washable .....	Ne No		Ne No	Ne No
Oblika proizvoda ..... Product form				
Tehnični podatki o filterih v skladu z EN 779:2011 ..... Filter's technical data according to EN 779:2011				
Samougasljiv v skladu z: DIN 53 438, razred F1 .....				
<b>Self-extinguishing according to DIN 53 438, Class F1</b>				
Nominalni volumen zraka [m³/h]	7.200	3.600	3.400	3.400
<b>Nominal air volume</b>				
Povprečno zadrževanje prahu [%]	85	90	89,20	98
<b>Average dust arrestance</b>				>98,10
Povprečna učinkovitost [%] /		/	/	92,10
<b>Average dust particle efficiency</b>				
Začetni padec tlaka [Pa]	50	60	30	68
<b>Initial pressure drop</b>				83
Priporočeni končni padec tlaka [Pa]	250	250	250	450
<b>Recommended final pressure drop</b>				450
Temperatura obratovanja [°C]	80	80	100	80
<b>Operational temperature</b>				80
Globina [mm]	10	10	360	600
<b>Depth</b>				600

### Tip / Type

Filtrski razred Filter Class.....  
EN 779:2011

Material Material.....

Pralno Washable.....

### CC600G-10 VA600G-10

M5 ..... M5

Sintetika Synthetics

Ne No



Oblika proizvoda .....  
Product form

Rola | Plošča  
Roll | Pad

Termično spojena sintetična vlakna s progresivno labirinčno strukturo. Material filterov CC600G-10 in VA600G-10 je prepojen z lepljivo snovo za zadrževanje prahu. Samougasljiv v skladu z DIN 53 438, razred F1.  
**Thermally bonded synthetic fibres with progressive labyrinth structure.** The filter material CC600G-10 and VA600G-10 is soaked with a dust-trapping adhesive. Self-extinguishing according to DIN 53 438, class F1.

Tehnični podatki o filterih v skladu z EN 779:2011 .....  
Filter's technical data according to EN 779:2011

Samougasljiv v skladu z:  
DIN 53 438, razred F1 .....  
**Self-extinguishing according to DIN 53 438, Class F1**

Nominalni volumen zraka [m³/h] 1.000 1.000

Nominal air volume

Povprečno zadrževanje prahu [%] 97,80

Average dust arrestance

Povprečna učinkovitost [%] 50

prashičnih delcev

Average dust particle efficiency

Začetni padec tlaka [Pa] 23

Initial pressure drop

Priporočeni končni padec tlaka [Pa] 450

Recommended final pressure drop

Temperatura obratovanja [°C] 100

Operational temperature

Globina [mm] 20

Depth

### FST-80

G2

Steklena vlakna Glass fibre

Ne No

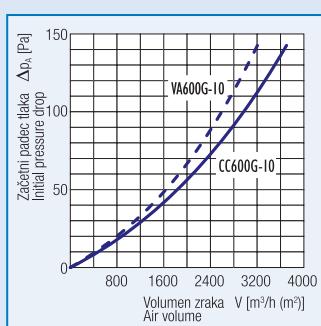


Rola | Plošča  
Roll | Pad

Progrevsivo strukturiran material, narejen iz termično spojenih sintetičnih vlaken. Samougasljiv v skladu z DIN 53 438, razred F1.  
**Progressively structured material made of thermally bonded synthetic fibres. Self-extinguishing according to DIN 53 438, class F1.**

Filterni razred Filter class.....  
EN 779:2011

Volumen zraka na kaseto V [m³/h] (m³)

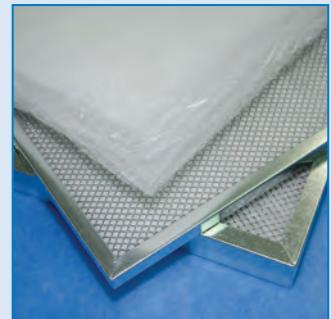


### UG-300

G4

Steklena vlakna Glass fibre

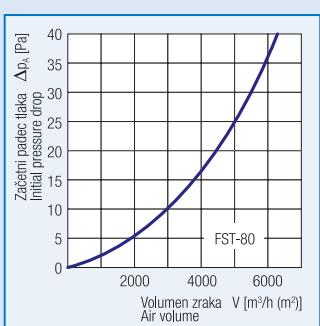
Ne No



Kaseta  
Cassette

Filtre plasti, ki so sestavljene iz čvrsto vezanih vlaken. Temperaturno obstojna filtrska plast UG-300 s širokim okvirjem iz aluminija na obeh straneh.  
**Filter layers made of firmly bonded fibres. The temperature-resistant filter layer UG-300 framed by a wide strip of aluminium on both sides.**

Volumen zraka V [m³/h] (m³)



8.000–10.000

93–97 velja za razpršen barvni prah  
refer to sprayed paint mist

77,20

77,20

55

70

85

250

450

300

300

14

48

## sistem uporabe filtrov filter application system

### Stropni filter CC600G-10

Stropni filter je impregniran s posebno lepljivo tekočino in se uporablja kot stropni filter za pretok zraka od zgoraj navzdol v lakirni kabini.



### Ceiling filter CC600G-10

Ceiling filter is impregnated with a special adhesive liquid and is used as a ceiling filter for air flow from top to bottom in a spray booth.

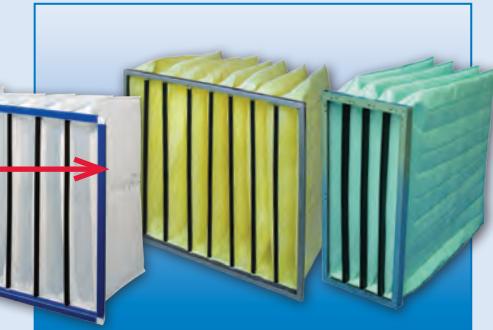
### Ecofil®

Material za filtre je proizveden iz topotno spojenih poliestrskih vlaken s specifično progresivno labirintno strukturo.

Filter material is made from thermally bonded polyester fibres with a specific progressive labyrinth structure.

### Vrečasti in kasetni filtri

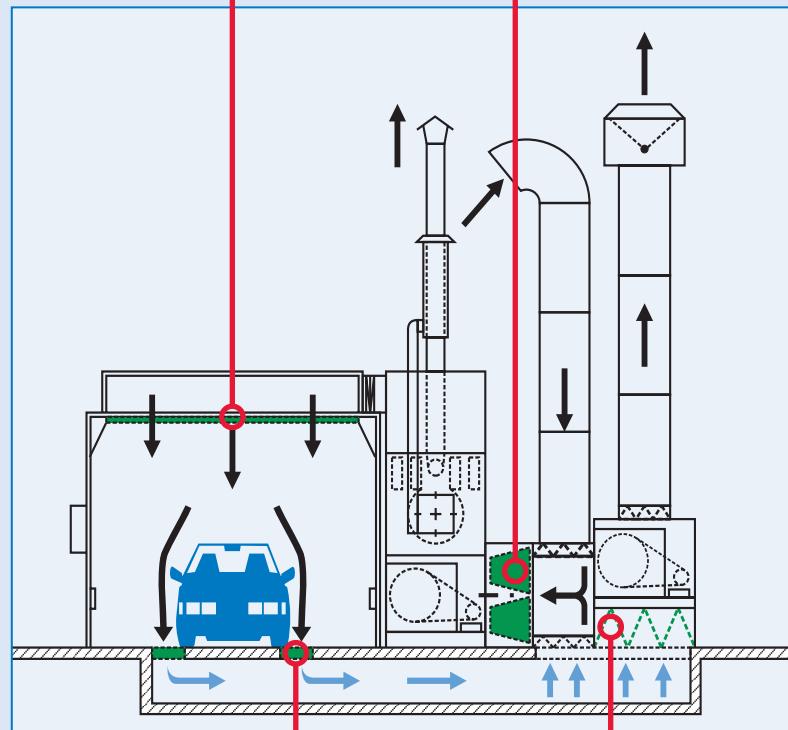
Vrečasti in kasetni filtri so dobavljeni v različnih izvedbah in kakovosti filtracije. Filtrirni razred G2–G4, M5–M6 in F7–F9 (EN 779:2011).



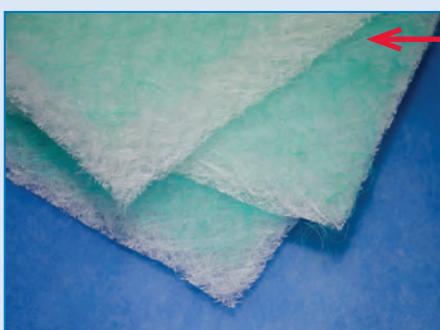
### Filtering bags and cassettes

Filtering bags and cassette filters are delivered in different sizes and filtration quality. Filter classes G2–G4, M5–M6 and F7–F9 (EN 779:2011).

Paintstop filter is designed exclusively for retention of superfluous paint - solid paint particles in spray booths. It is made from continuous filament glass fibre with open weave pattern.



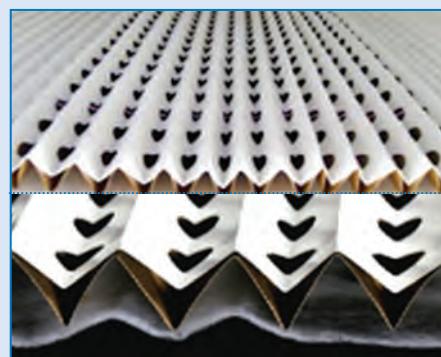
### Paintstop roll filter FST-80



### Talni filter FST-80

Talni filter je oblikovan izključno za zadrževanje odvečne razpršene barve - trdih delcev v lakirni kabini. Izdelan je iz nepreklenjenih filamentnih vlaken s progresivno netkano strukturo.

### Papirnati filtri z veliko akumulacijo



### Large accumulation paper filters

### Pre-filter

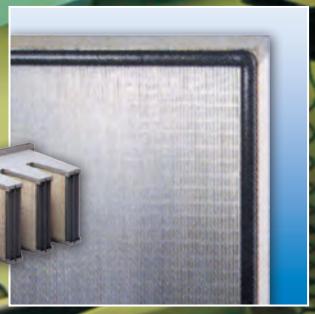


### Predfilter

Filter materiali za predfiltracijo je dobavljeni v različnih dimenzijah ali filter ploščah, ki imajo progresivno labirintno strukturo.

# Ecofil®

## FILTER



..... ultra filtracija **ultra filtration**

**Kompaktni filtri**

**Compact filters**

Filtrski razred ... Filter class

**Q, R, S**

E10–E12, H13–H14 & U15–U17

Papirji iz mikro steklenih vlaken  
Micro glass-fibre paper

Pralno Washable ..... Ne No



Element

**Separatorski sistem**

**Separator system**

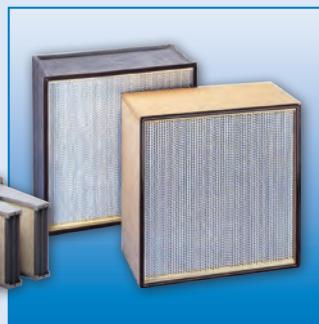
Filtrski razred ... Filter class

**Q, R, S**

E10–E12, H13–H14 & U15–U17

Papirji iz mikro steklenih vlaken  
Micro glass-fibre paper

Pralno Washable ..... Ne No



Element

**Mini plisirni sistem**

**Mini-pleat system**

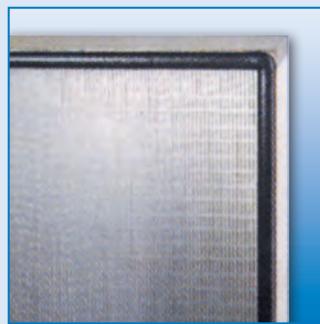
Filtrski razred ... Filter class

**Q, R, S**

E10–E12, H13–H14 & U15–U17

Papirji iz mikro steklenih vlaken  
Micro glass-fibre paper

Pralno Washable ..... Ne No



Element

**Tehologija čistih sob**

**Clean room technology**

Filtrski razred ... Filter class

**Q, R, S**

E10–E12, H13–H14 & U15–U17

Papirji iz mikro steklenih vlaken  
Micro glass-fibre paper

Pralno Washable ..... Ne No



Element

**HEPA filter**

Absolutni filter

**Absolute filter**

Preizkus po DIN 24184: razpršeno parafinsko olje

**Test according to DIN 24184: sprayed paraffin oil**

Preizkus puščanja

**Leak rate test**

Tip Type Star Old	Tip Type Nov New	Učinkovitost Efficiency Star Old	Učinkovitost Efficiency Nov New
Q	E10 EPA	≥ 85 %	≥ 85 %
R	E11 EPA	≥ 98 %	≥ 95 %
S	E12 EPA	≥ 99,97 %	≥ 99,5 %
S	H13 HEPA	≥ 99,997 %	≥ 99,95 %
S	H14 HEPA	≥ 99,999 %	≥ 99,995 %

**ULPA filter**

Visoko učinkovit absolutni filter

**High efficient absolute filter**

Preizkus po DIN 24183/EN 1822: DEHS

**Test according to DIN 24184/EN 1822: DEHS**

Točkovni preizkus

**Scanning test**

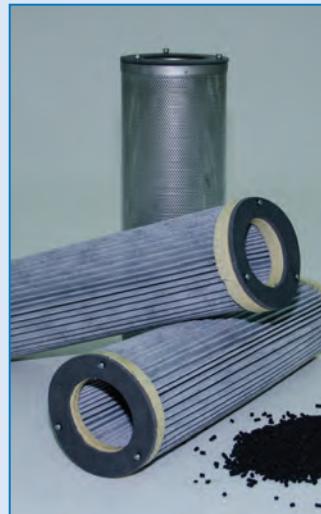
Tip Type Nov New	Učinkovitost Efficiency
U15 ULPA	≥ 99,9995 %
U16 ULPA	≥ 99,99995 %
U17 ULPA	≥ 99,999995 %

ECOFIL® absolutni filtri so membranski filtri z zelo veliko sposobnostjo filtriranja 0,3 mikronskih delcev.

**Uporaba:** v klima napravah kot končna stopnja filtracije v farmaciji, operacijskih dvoranah, elektroniki, jedrskih centralah, mikrobiologiji ...

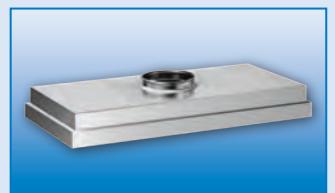
ECOFIL® absolute filters are membrane filters with a high filtration efficiency of 0.3 micron particles.

**Application:** in air handling units as the final stage of filtration in pharmacy, operating theatres, electronics, nuclear power plants, microbiology, etc.



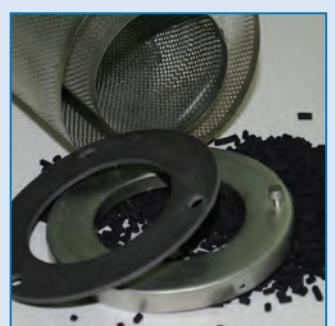
**Filrska oprema**

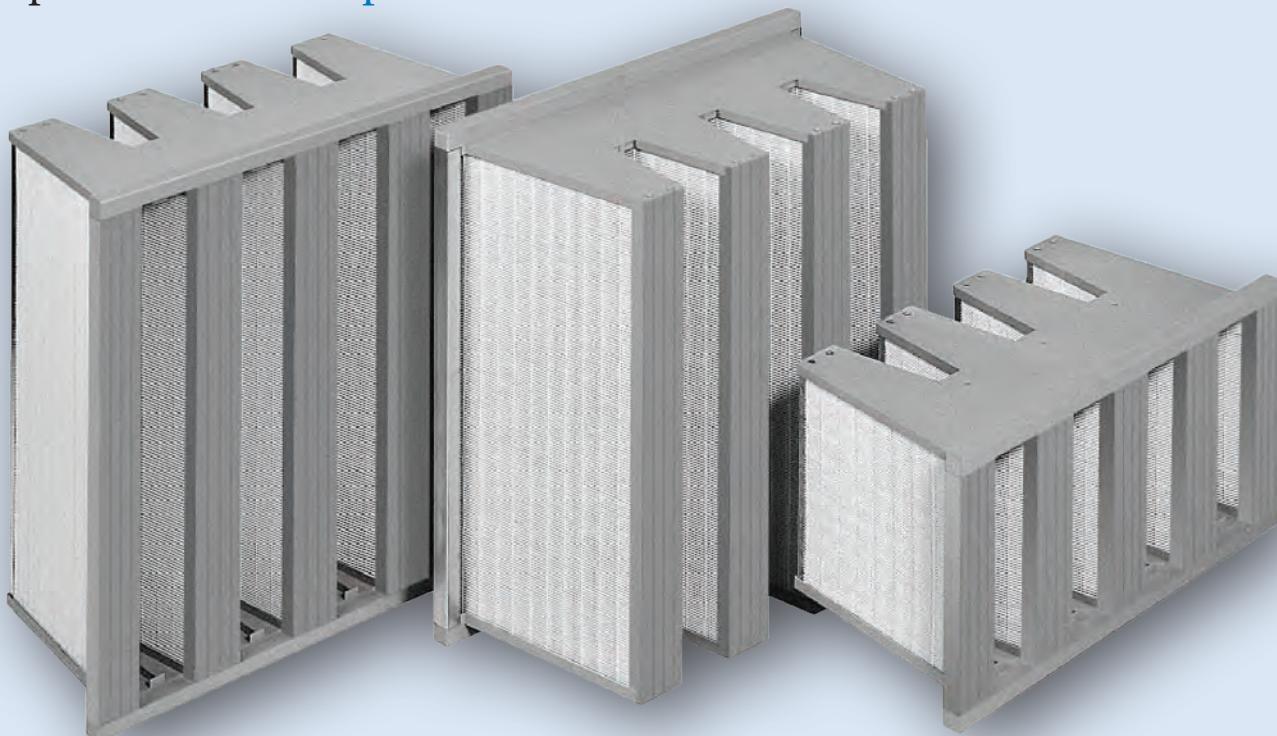
**Filter equipment**



**Ogljeni filtri**

**Carbon filters**





### Ecofil® fino prašni filter

Ecofil® FP filtri za ločevanje finega prahu preprečujejo onesnaževanje zraka s prahom, dimom, paro, sajami, cvetnim prahom, bakterijami, itd. Uporablja se kot predfiltri ali ko filtri, in sicer v napravah za prezračevanje in klimatizacijo prostorov.

Ecofil® FP filtri so vsestransko uporabni, še posebej v primerih, ko moramo zagotavljati **dolgo življenjsko dobo, varnost in prilagodljivost**. Filtri so na voljo v 8 različicah glede na stopnjo zadržljivosti, v 4 glede na višino, v 2 glede na globino ter v 2 izvedbah (NT/HT).

### Podatki

Obratovalna temperatura:

- Model »NT«: <75 °C
- Model »HT«: <120 °C (ne velja za FP-65)

Tlačne razlike:

- priporočen končni padec tlaka: 450 Pa
- maksimalni končni padec tlaka: 800 Pa
- maksimalna vzdržljivost: >1500 Pa

Dopustna relativna vlažnost zraka:

- FP-65: <85 %
- FP-M6 do FP-F9 <100 %

### Materiali

Filtrski medij:

- FP-65: 18 m<sup>2</sup> celulozna vlakna
- FP-M6 do FP-F9: 18 m<sup>2</sup> plisiran papir iz steklenih vlaken

»NT« okvirji:

- odporni proti halogenom, recikliran polistirol

»HT« okvirji:

- umetni materiali in pocinkano jeklo

Tesnilno sredstvo:

- poliuretan

Test sežigljivosti uporabljenih konstrukcijskih materialov:

- model »NT«: K2/F2 po DIN 53438
- model »HT«: K1/F1 po DIN 53438

### Ecofil® fine dust filter FP

Ecofil® FP Fine Dust Filters remove air contamination such as fine dust, smoke, vapor, soot, pollen, bacteria, etc. and are therefore ideally suitable as final filters or as pre-filters for HEPA- or ULPA- filters in air conditioning installations.

They are suitable for all standard filter applications, especially with those requiring increased Service Life, Safety and Versatility. Ecofil® FP Filters are available in 8 efficiencies, 4 nominal sizes, 2 depths and 2 models (NT/HT).

### Application parameters

Continuous operating temperature:

- Model »NT«: <75 °C
- Model »HT«: <120 °C (not valid for FP-65)

Pressure drop:

- recommended final pressure drop: 450 Pa
- max. final pressure drop (endurance strength): 800 Pa
- bursting pressure (new filter): >1500 Pa

Admissible relative humidity:

- FP-65: <85 %
- FP-M6 do FP-F9 < 100 %

### Materials

Filter medium:

- FP-65: 18 m<sup>2</sup> cellulose fibre paper,
- FP-M6 do FP-F9: 18 m<sup>2</sup> glass fibre paper

Frame »NT«:

- Incinerable halogene free recycled Polystyrol

Frame »HT«:

- Plastic and galvanized steel

Sealant:

- Polyurethane

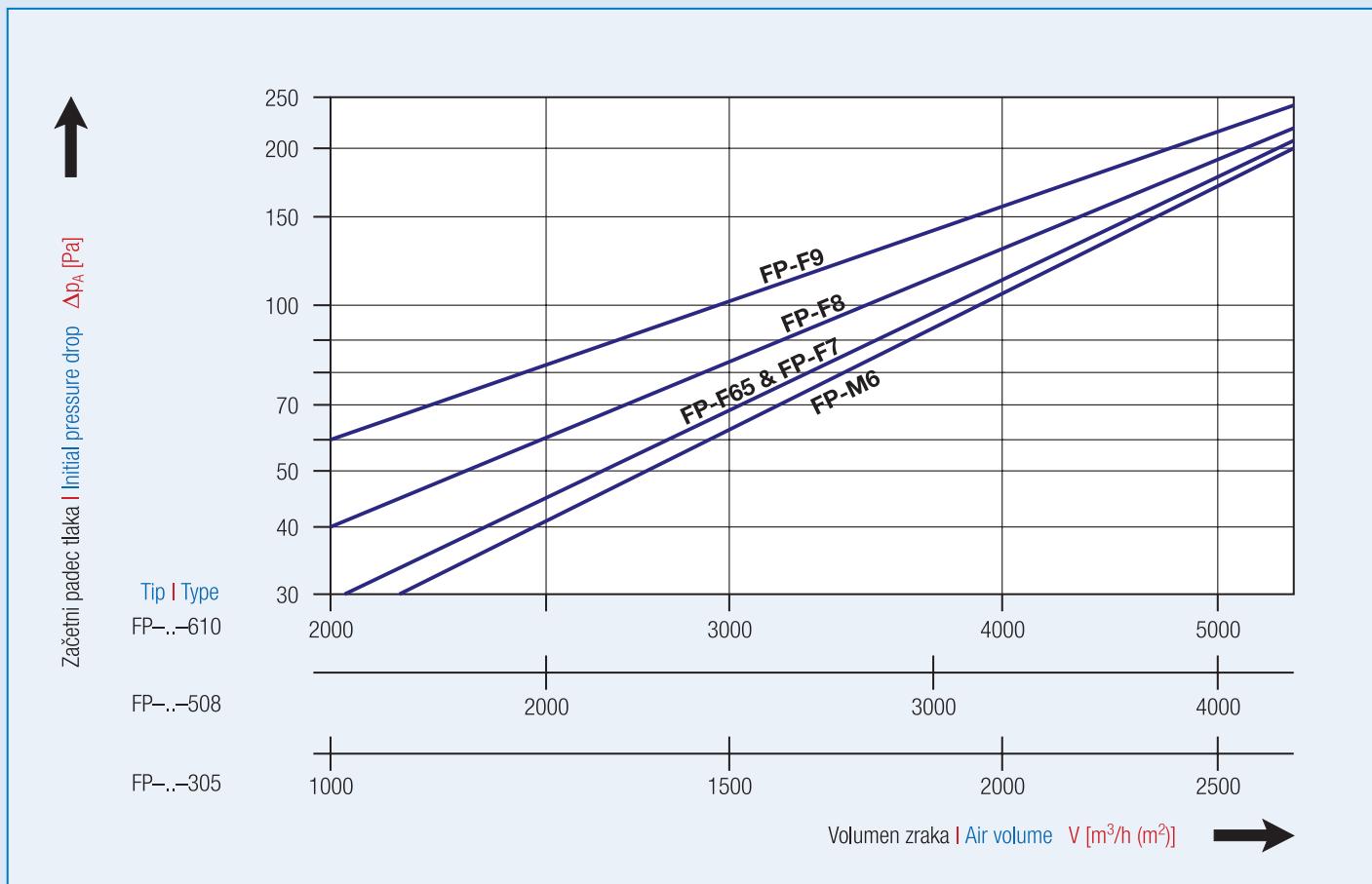
Flammability class, of materials used:

- Model »NT«: K2/F2 according to DIN 53438
- Model »HT«: K1/F1 according to DIN 53438

..... kompaktni filtri **compact filters**

**TEHNIČNI PODATKI** **TECHNICAL DATA**

<b>Ecofil® fino prašni filter</b>	<b>Ecofil® fine dust filter</b>	<b>FP-</b>	<b>65-610</b>	<b>F6-610</b>	<b>F7-610</b>	<b>F8-610</b>	<b>F9-610</b>
Pretok zraka   Air flow		m³/h	5.000	5.000	5.000	5.000	4.250
Začetni padec tlaka   Initial pressure drop		Pa	140	135	140	150	140
Nominalni pretok zraka   Rated air flow		m³/h	4.250	4.250	4.250	4.250	3.400
Začetni padec tlaka   Initial pressure drop		Pa	105	100	105	120	105
Filtrski razred   Filter class	EN 779:2011	/	M6	M6	F7	F8	F9
Povprečna učinkovitost   Efficiency average	EN 779:2011	%	70	70	82	93	96
Povprečna zadržljivost   Arrestance average	EN 779:2011	%	>95	>98	>99	>99	~100

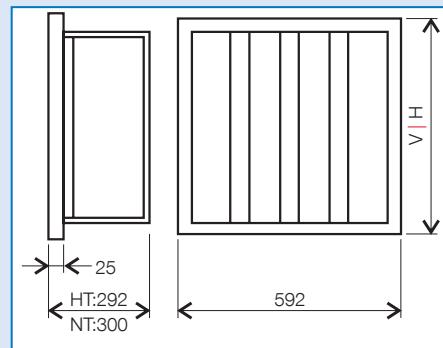


**Ecofil® FP filtri za ločevanje finega prahu**

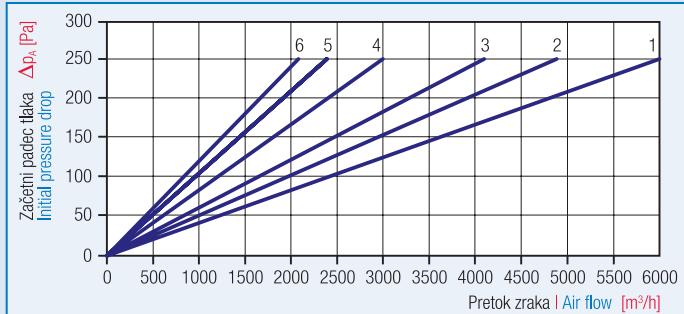
- Bogata izbira uradno preizkušenih filtrov
- Majhen padec pritiska - velik izkoristek
- Velika filtrirna površina, 18 m<sup>2</sup>
  - izredno dolga življenjska doba
  - pretok zraka do 5.000 m<sup>3</sup>/h
- Papir iz mikro steklenih vlaken kot medij - minimalna obraba vlaken
- Samonosna, robustna celična zgradba
  - velika odpornost proti lomu, popolna zadržljivost prahu
- Možnost odločanja o smeri pretoka zraka in načinu vgradnje filtrov
- Brez emisije škodljivih snovi - proizvodi so izdelani iz materialov, ki jih je moč reciklirati
- Okvirji iz umetnih materialov

**Ecofil® Fine Dust Filter FP**

- Comprehensive range - independently tested
- Low pressure drop - maximum economy
- Large filter surface of 18 m<sup>2</sup>
  - extremely long service life
  - nominal air flow up to 5.000 m<sup>3</sup>/h
- Glass fibre paper - no fibre loss
- Self-supporting rigid structure - high bursting pressures, dust migration impossible
- Direction of air flow and installation can be chosen either way round
- Without pollutant emission fully incinerable
  - recyclable materials
- Frame manufactured from recycled plastic



## separatorski sistem separator system



Filski razred (št. krivulje) Filter class (Curve No.)	E11 (1)	E11 (2)	E11 (3)	H13 (4)	H13 (5)	H13 (6)
Dimenzijske podatke   Dimensions	mm	610x610	610x610	610x610	610x610	610x610
Vgradna globina   Depth	mm	292	292	292	292	292
Separator   Separator	mm	2,9	3,9	4,9	2,9	3,9
Pretok zraka   Air flow	m³/h	6.000	4.800	4.200	3.000	2.400
Padec tlaka   Pressure drop	Pa	250	250	250	250	250

- Okvirji iz različnih materialov (MDF, legirano jeklo itd.)
- Robustna tehnika plisiranja filtrov
- Visoka temperaturna obstojnost (do 120 °C)
- Filtri z ali brez zaščitnih mrež
- Zagotovljena standstotna zatesnjenoost filtrov
- Proizvodi izdelani po EN in DIN

- Wide range of frame materials (MDF, alloy steel etc.)
- Robust pleating technique
- Temperature resistance up to 120°C
- Filters with or without protecting nets
- 100 % sealing
- Products are tested according to EN and DIN

## Ecofil® absolutni filtri (E10–H14)

## Področje uporabe

Ecofil® filtri - filtri razredi E10–H14 - uporabljamo v primerih, ko moramo izpolnjevati najvišje zahteve po čistosti zraka:

- v industrijskih procesih (mikroelektronika, farmacija, živilska industrija, medicina, optika, mikrobiologija itd.),
- v operacijskih dvoranah in v bolnišnicah,
- pri filtraciji nevarnih snovi, kot so azbest, težke kovine ter kancerogeni prah in
- na področju jedrske energije.

Z uporabo ultrafinih mikro steklenih vlaken in robustno tehniko plisiranja s pomočjo aluminijskih separatorjev dosegajo Ecofil® filtri izredno visoko kapaciteto zadrževanja submikronskih delcev, kar zagotavlja optimalne obratovalne pogoje.

## Izvedbe

<b>Okvirji:</b>	Večplasten les, MDF-plošče, pločevina izlegiranega jekla in pocinkana pločevina
<b>Vgradne globine:</b>	150, 292 mm
<b>Tesnjenje:</b>	PU-penasto tesnilo
<b>Zaščita:</b>	Filtri z ali brez zaščitnih mrež
<b>Temperatura:</b>	do 120 °C
<b>Relativna vlažnost zraka:</b>	do 100 %

Pri izdelavi Ecofil® filtrov se prilagajamo tudi zahtevam in željam strank; glede na zahteve nudimo možnost izdelave filtrov večjih zmogljivosti.

## Ecofil® absolute filters (E10–H14)

## Applications

Ecofil® Sediment Filters (Filter classes E10–H14) are used in air ventilation and air conditioning plants with extremely high requirements for air purity:

- Industrial processes like microelectronics, pharmacy, food-processing industry, medicine, optics, microbiology etc.)
- Hospitals and hospital operating theatres
- Filtration of toxic and dangerous substances and materials like asbestos, heavy metals and carcinogenic dust
- Nuclear energy and nuclear research

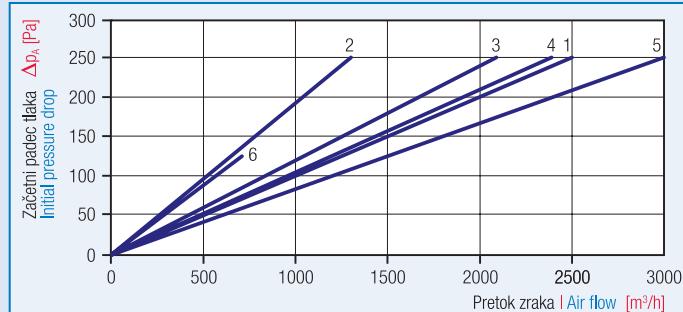
Ecofil® filters are known for their special pleating technique and made of micro glass fibres, which guarantees an extremely high dust holding capacity and makes controlling of Laminar Flow possible.

## Models

<b>Frame:</b>	Wood, MDF, alloy steel plate and galvanized sheet metal
<b>Depth:</b>	150, 292 mm
<b>Washers:</b>	PU - foam washers
<b>Protection:</b>	Filters with or without protecting nets
<b>Temperature:</b>	up to 120 °C
<b>Relative humidity:</b>	up to 100 %

A comprehensive range of high quality filters; supply depending on demand of the customers.

- mini-plisirni sistem **mini-pleat system**



Filrski razred (št. krivulje)	Filter class (Curve No.)	E11 (1)	E11 (2)	E11 (3)	H13 (4)	H13 (5)	H13 (6)
Dimenzijs   Dimensions	mm	610x610	610x610	610x610	610x610	610x610	610x610
Vgradna globina   Depth	mm	78	78	150	292	292	78
Separator   Separator	mm	65	65	100	150	230	65
Pretok zraka   Air flow	m <sup>3</sup> /h	2.500	1.260	2.100	2.400	3.000	600
Padec tlaka   Pressure drop	Pa	250	250	250	250	250	125

- Zadržljivost od 85 %-99,999995 %
  - Okvirji iz različnih materialov (aluminij, MDF itd.)
  - Različne vrste tesnil (penasta ravna in gel tesnila ter tesnilni žeblički)
  - Filtri z ali brez zaščitnih rešetk
  - Zagotovljena standstotna zatesnjenost filtrov
  - Proizvodi izdelani po EN in DIN

- Efficiency from 85 % up to 99,999995 %
  - Extensive range of frames and materials (aluminium, MDF, etc.)
  - Wide range of washers
  - Filters with or without protecting nets
  - 100 % sealing
  - Products are tested according to EN and DIN

### **Ecofil® absolutni filtri (E10–H14 in U15–17)**

## Področje uporabe

Ecofil® filter - filterki razredi E10-H14 in U15-U17 - uporabljamo v primerih, ko moramo izpolnjevati najvišje zahteve po čistosti zraka:

- v industrijskih procesih (mikroelektronika, farmacija, živilska industrija, medicina, optika, mikrobiologija itd.),
  - v operacijskih dvoranah in v bolnišnicah,
  - v čistih sobah,
  - v ventilacijskih enotah,
  - pri filtraciji nevarnih snovi, kot so azbest, težke kovine ter kancerogeni prah in
  - na področju jedrske energije.

Spričo uporabe ultrafinih mikro steklenih vlaken in tehnike plisiranja imajo Ecofil® filtri izredno visoko kapaciteto zadrževanja submikronskih delcev, kar zagotavlja nadzorovan pretok zraka.

## Prednosti za uporabnika

Ecofil® filtri zagotavljajo maksimalne učinke ob minimalni porabi energije.

Izvedbe

<b>Okvirji:</b>	Aluminij, les, MDF-plošče, pločevina iz legiranega jekla in pocinkana pločevina
<b>Vgradne globine:</b>	46, 54, 69, 75, 78, 150, 292 mm
<b>Tesnjenje:</b>	Penasta ravna in gel tesnila, U-profil tesnila ter visokotemperaturna tesnila.
<b>Zaščita:</b>	Filtri z ali brez zaščitnih mrež.
<b>Temperatura:</b>	do 80 °C
<b>Relativna vlažnost zraka:</b>	do 100 %

#### **Ecofil® absolute filters (E10–H14 and U15–17)**

## Applications

Ecofil® Sediment Filters (Filter classes E10–H14 and U15–U17) are used in air ventilation and air conditioning plants with extremely high requirements for air purity:

- Industrial processes like microelectronics, pharmacy, food-processing industry, medicine, optics, microbiology etc.)
  - Hospitals and hospital operating theatres
  - Laminar Flow Boxes
  - Filter-Fan-Units
  - Filtration of toxic and dangerous substances and materials like asbestos, heavy metals and carcinogenic dust
  - Nuclear energy and nuclear research

Ecofil® filters are known for their special pleating technique and made of micro glass fibres, which guarantees an extremely high dust holding capacity and makes controlling of Laminar Flow possible.

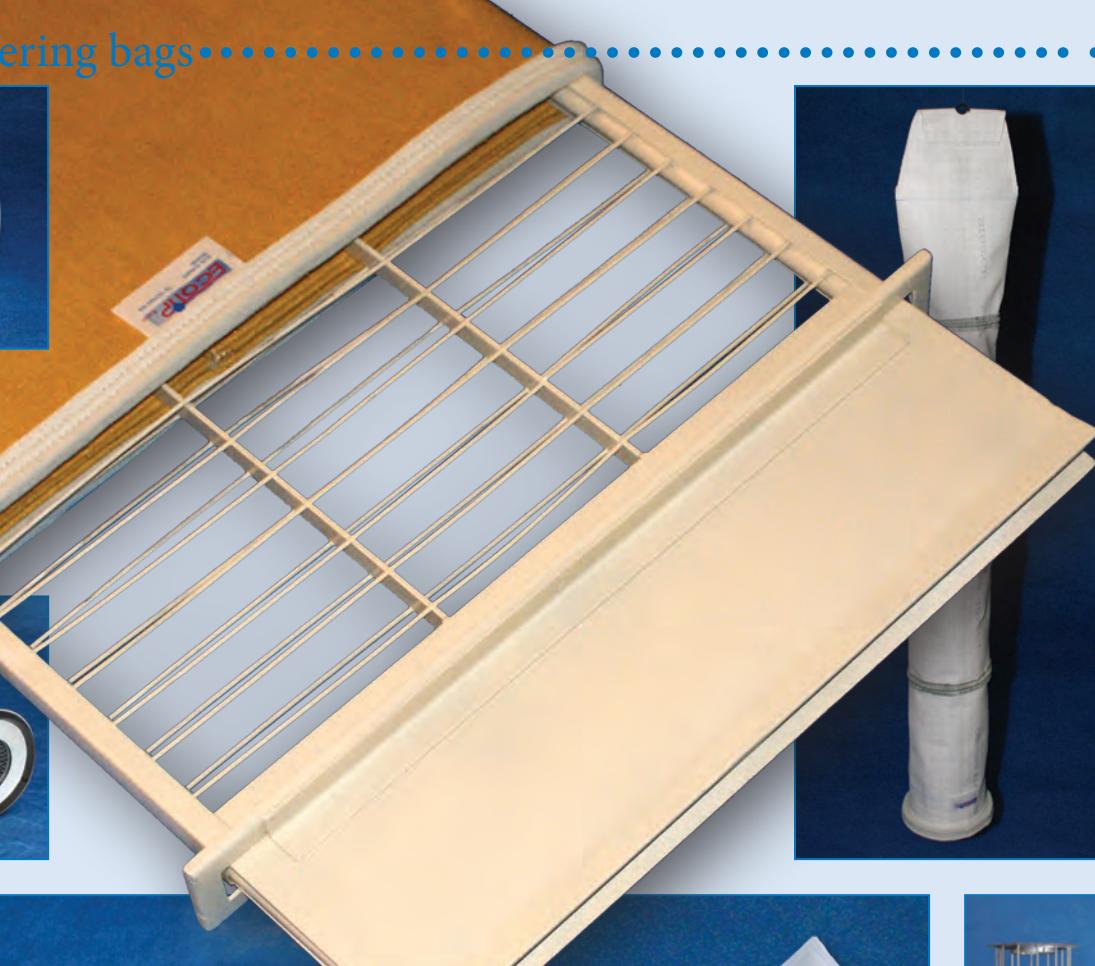
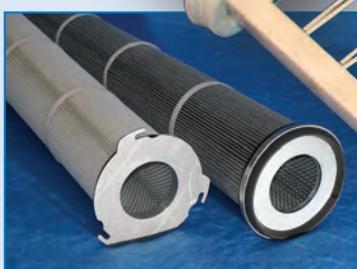
### **Advantages for the users**

Maximal efficiency with minimal energy costs.

## Models

<b>Frame:</b>	Aluminium, wood, MDF, alloy steel plate and galvanized sheet metal
<b>Depth:</b>	46, 54, 69, 75, 78, 150, 292 mm
<b>Washers:</b>	Wide range of washers, which make sealing possible
<b>Protection:</b>	Filters with or without protecting nets
<b>Temperature:</b>	up to 80 °C
<b>Relative humidity:</b>	up to 100 %

A comprehensive range of high quality filters; supply depending on demand of the customers.



## Radialni zračni filtrski vložki



## Radial air filter cartridges

Ecofil® filter patronе so namenjene široki uporabi v motorjih tovornjakov, avtobusov, kmetijski in gradbeni mehanizaciji ter pri vsej drugi težki mehanizaciji in strojih. Visoko kakovostne Ecofil® filter patronе so proizvedene v skladu z visokimi standardi kakovosti po DPS in 2DPS.

## Radialni zračni filtri s poliuretanskim tesnilom



## Radial polyurethane seal air filter

Ecofil® zračni filtri s poliuretanskim tesnilnim obročem so narejeni v skladu s plisirnimi sistemi DPS in 2DPS. Primerni so za uporabo v skrajnih pogojih filtracije.

Ecofil® air filters with special micro cell polyurethane sealing rings are produced in compliance with DPS and 2DPS pleating systems. They are suitable for the application of filtration under extreme conditions.

## Ecofil® filter adapter



## Ecofil® filter adaptor

DPS je plisirni sistem filtrov z največjo možno učinkovitostjo pri filtraciji. Z uporabo tega sistema zagotovimo enakomeren medprostor med gubami in temu ustrezen pretok zraka skozi filter. Reže med gubami se ne spremeni niti v ekstremnih pogojih filtracije, emisijska površina pa se ne spremeni oz. ne zmanjša. Tako sta omogočena normalen pretok zraka in dolgotrajna učinkovitost filtra.

DPS is a pleating filter system with the highest possible filtration efficiency. When using this system, equal space between the pleats and the corresponding air flow through the filter are ensured. Even under extreme conditions of filtration the gaps between the pleats never change, and the emission surface does not change or decrease either. Thus, a regular air flow and long lasting efficiency of the filter are provided.



		Ecofil® PE/PE 351	Ecofil® PE/PE 401	Ecofil® PE/PE 451	Ecofil® PE/PE 501	Ecofil® PE/PE 501 Si	Ecofil® PE/PE 504 glaze CS17	Ecofil® PE/PE 551 glaze	Ecofil® PE/PE 551 Si	Ecofil® PE/PE 354 glaze ExCharge	Ecofil® PE/PE 401 ExCharge	Ecofil® PE/PE 451 ExCharge	Ecofil® PE/PE 501 ExCharge	Ecofil® PE/PE 551 ExCharge	Ecofil® PE/PE 554 glaze ExCharge	Ecofil® PE/PE 551 ExCharge CS17	Ecofil® PP/PP 504	Ecofil® PP/PP 554	Ecofil® AC/AC 551	Ecofil® DT/DT 501		
<b>1</b>	<b>Koda TAN</b>	3440	3732	1012	2733	3031	4951	5495	3342	3753	5540	1119	5105	1120	4046	4993	5058	3784	2113	3014	4863	
<b>2</b>	<b>Sestava Composition</b>	vlaknasti sloj vlaknasti sloj tkanina	web (a) scrim (a)	(a) (a) (a)	(a) (a) (a)	(a) (a) (a)	(a) (a) (a)	(a) (a) (a)	(a) (a) (a)	(a) (a) (a)	(a) (a) (a)	(a) (a) (a)	(a) (a) (a)	(a) (a) (a)	(a) (a) (a)	(a) (a) (a)	(a) (a) (a)	(i) (i) (g)	(i) (i) (g)	(b) (b)		
<b>3</b>	<b>Teža Area weight</b> (g/m <sup>2</sup> )	ISO 9073-1	350	400	450	500	500	500	550	550	550	350	400	450	500	550	550	500	550	550	500	
<b>4</b>	<b>Debelina Thickness</b> (mm)	1,5	1,6	1,7	2	2,1	1,7	2	1,9	1,9	1,1	1,6	1,9	1,9	1,9	1,8	1,9	2,1	2,2	2,4	2,5	
<b>5</b>	<b>Gostota Density</b> (g/m <sup>3</sup> )	0,23	0,25	0,26	0,25	0,24	0,29	0,28	0,29	0,29	0,32	0,25	0,24	0,26	0,29	0,31	0,29	0,24	0,25	0,23	0,2	
<b>6</b>	<b>Propustnost Air permeability</b> (mm/s @ 200 Pa)	EN ISO 9237	583 (J)	417 (A)	417 (A)	333 (E)	333 (E)	267 (K)	250 (F)	250 (F)	417 (A)	417 (A)	458 (M)	333 (E)	250 (F)	217 (L)	250 (F)	333 (E)	200 (C)	250 (F)	333 (E)	
<b>7</b>	<b>Volumen por Pore volume</b> (%)	83	82	81	82	83	79	80	79	79	77	82	83	81	79	78	79	74	73	80	83	
<b>8</b>	<b>Raztržnost Tensile strength</b> (daN)	ISO 9073-3 velikost vzorca sample size 200/50 mm vzdoljno lenght prečno cross	155	150	150	165	115	175	185	155	165	185	150	185	155	155	145	185	180	60	35	
<b>9</b>	<b>Raztežnost Elongation at break</b> (%)	ISO 9073-3 vzdoljno lenght prečno cross	21	21	20	21	18	21	20	20	21	21	21	22	21	20	21	20	23	22	15	10
<b>10</b>	<b>Temperaturna obstojnost* Temperature resistance *</b> (°C)	trajna continual kratkotrajna short	150	150	150	150	150	150	150	150	150	150	150	150	150	150	150	90	90	115	125	
<b>11</b>	<b>Največja spremembra dimenziј Max. change of dim.</b> (°C)	pri 150 °C at 150 °C	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	
<b>12</b>	<b>Dodatna obdelava površine Surface design/treatment</b>	(1) (2) (7)	(1) (2) (7)	(1) (2) (9)	(1) (2) (5)	(1) (6) (9)	(1) (6) (5)	(1) (2) (10)	(1) (6) (10)	(1) (2) (10)	(1) (2) (10)	(1) (2) (10)	(1) (2) (10)	(1) (2) (10)	(1) (2) (10)	(1) (2) (10)	(1) (2) (10)	(1) (2) (10)	(1) (2) (10)	(1) (2) (10)		

### DODATNA OBDELAVA | ADDITIONAL TREATMENTS

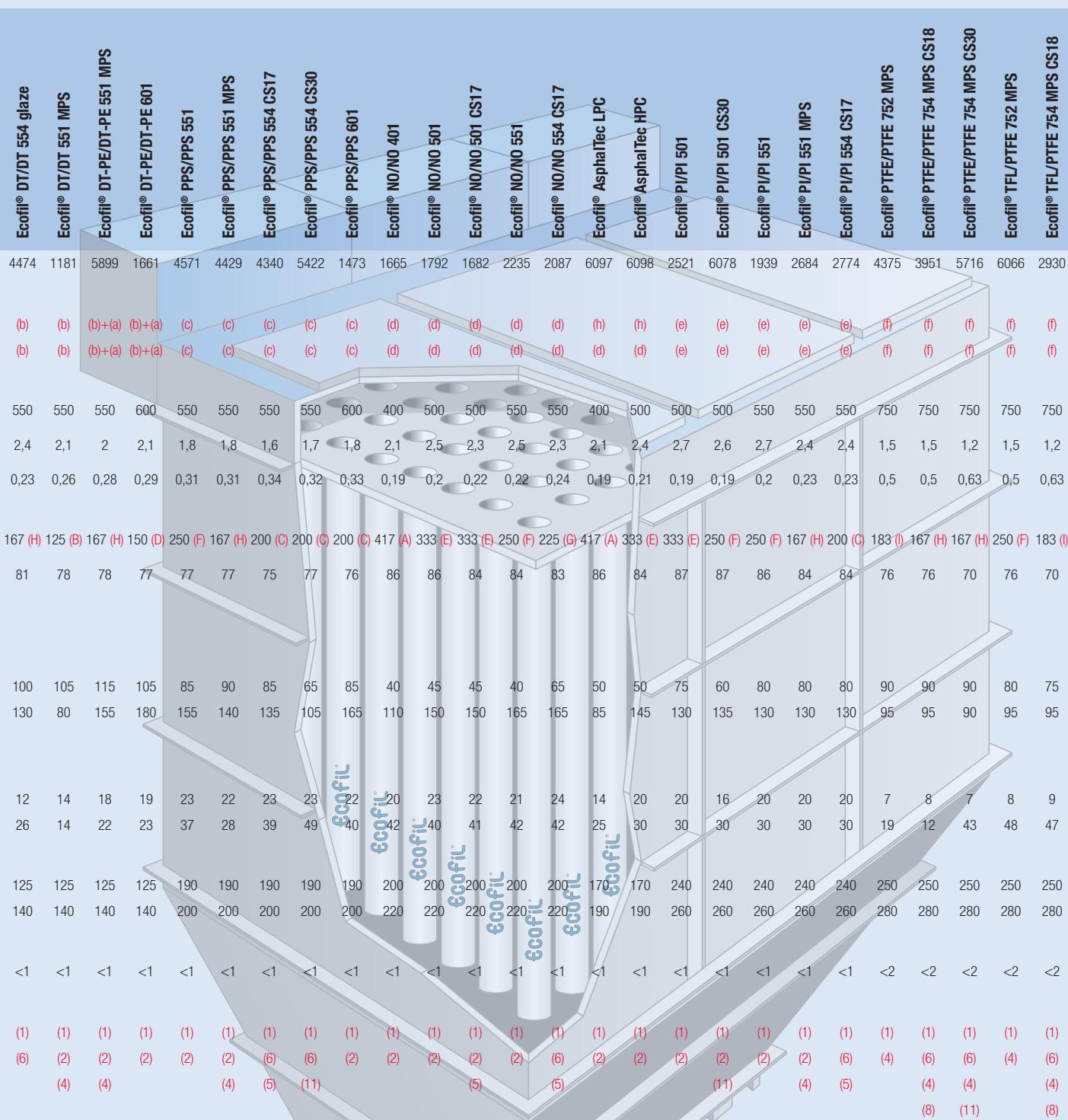
- (1) Toplotno stabiliziran / Termo fiksiran | Heat set
- (2) Smojena površina | Singed face side
- (3) Antistatična mešanica vlaken | Epitropic fibre admixture
- (4) Mikro pore iz mikro vlaken | Micro pores by fine fibres
- (5) Olje in vodooodbojna impregnacija za boljše čiščenje prašnih delcev | Full bath oil and water repellent finish for optimal cake release
- (6) Zagljen/kalandriran | Glazed face side
- (7) Na voljo v širinah 200 cm, 210 cm in 220 cm | Available 200 cm, 210 cm and 220 cm width
- (8) Teflonska površinska impregnacija | PTFE surface coating
- (9) Obdelava za boljše odpadjanje prahu (izločanje) | Full bath anti-adhesive finish
- (10) Konstantna prevodna matrika iz kovinskih nitri; upornost <10<sup>6</sup> Ohm (DIN 54345 del 1 in del 5) | Permanent conductive matrix, resistance <10<sup>6</sup> Ohm (DIN 54345 part 1 and part 5)
- (11) Polna teflonska impregnacija | Full bath PTFE treatment
- (12) ACU-antistatik z bakrenimi vlakni-upornost <10<sup>3</sup> Ohm (DIN 54345 del 1 in del 5) | ACU-antistatic with coppers fibres composition-resistivity <10<sup>3</sup> Ohm (DIN 54345 part 1 and part 5)

### SESTAVNI MATERIALI | COMPOSITION MATERIALS

- (a) Polyester | Polyester
- (b) Poliakril homopolimer | Polyacrylonitrile Homopolymer
- (c) Polifenil sulfid | Polyphenylene Sulphide
- (d) Meta aramid | m-Aramid
- (e) Polimid | Polyimide
- (f) Teflon | PTFE
- (g) Poliakril - kopolimer | Polyacrylonitrile Copolymer
- (h) Poliamid-imid | Polyamide-imide
- (i) Polipropilen | Polypropylene

### OPOMBE | REMARKS

- \* Kemijski sestav dimnih plinov lahko zahteva nižje obratovalne temperature
- \* Chemical gas stream conditions may require a lower continuous operating temperature to be maintained



## PROPUSTNOST | AIR PERMEABILITY

- (A) 250  $\text{L}/(\text{dm}^2 \text{ min})$  @ 200 Pa
  - (B) 75  $\text{L}/(\text{dm}^2 \text{ min})$  @ 200 Pa
  - (C) 120  $\text{L}/(\text{dm}^2 \text{ min})$  @ 200 Pa
  - (D) 90  $\text{L}/(\text{dm}^2 \text{ min})$  @ 200 Pa
  - (E) 200  $\text{L}/(\text{dm}^2 \text{ min})$  @ 200 Pa
  - (F) 150  $\text{L}/(\text{dm}^2 \text{ min})$  @ 200 Pa
  - (G) 135  $\text{L}/(\text{dm}^2 \text{ min})$  @ 200 Pa
  - (H) 100  $\text{L}/(\text{dm}^2 \text{ min})$  @ 200 Pa
  - (I) 110  $\text{L}/(\text{dm}^2 \text{ min})$  @ 200 Pa
  - (J) 350  $\text{L}/(\text{dm}^2 \text{ min})$  @ 200 Pa
  - (K) 160  $\text{L}/(\text{dm}^2 \text{ min})$  @ 200 Pa
  - (L) 130  $\text{L}/(\text{dm}^2 \text{ min})$  @ 200 Pa
  - (M) 275  $\text{L}/(\text{dm}^2 \text{ min})$  @ 200 Pa



## **Platna za zračna korita**

### **Air lide belts**



## **Antistatik material - ExCharge**

Antistatik material s konstantno prevodno INOX Matriko  
 $<10^6$  ohm ExCharge z DEKTRA Exam certifikati  
Antistatic material with constant conductive stainless steel matrix  
 $<10^6$  ohm ExCharge with DEKTRA Exam Certificates

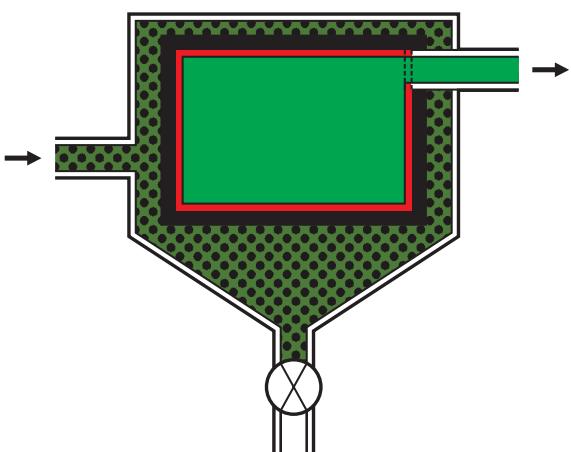


Ecofil®

F I L T E R

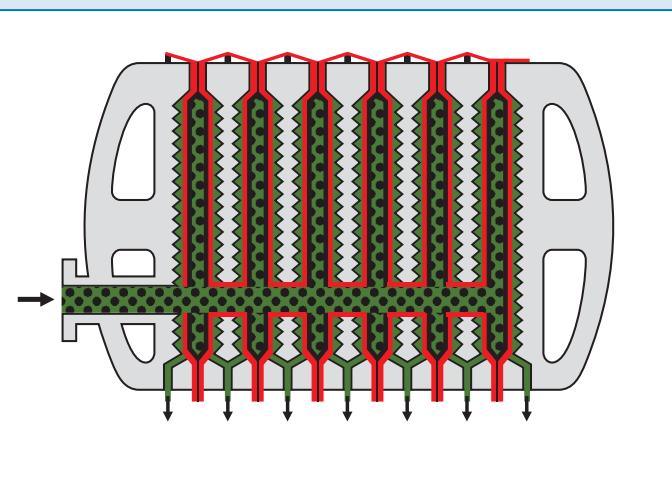


### Tlačni lamelni filter



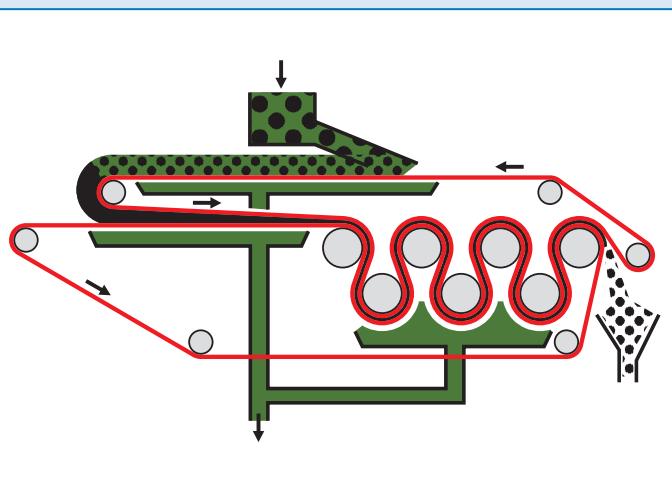
### Pressure leaf filter

### Odstopna ploščna filtrska stiskalnica



### Recessed plate filter press

### Večvaljčna tračna stiskalnica



### Multi roll-belt press

Material za filter stiskalnice za izločanje trdih delcev iz tekočin

Material used in filter presses for liquid/solid separation

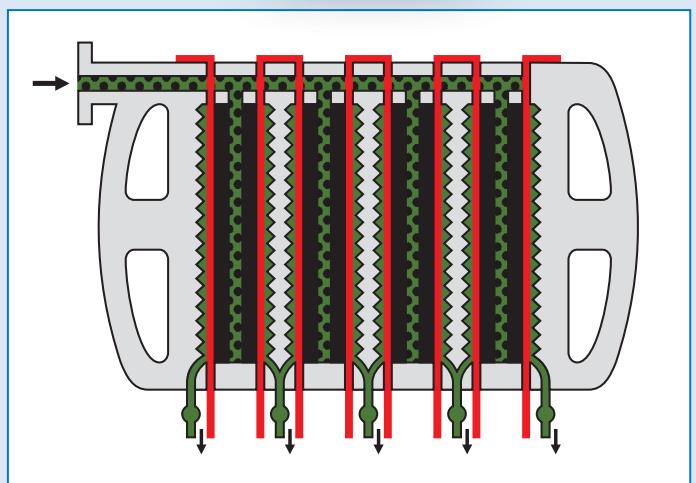
Blato  
Slurry

Filtrski medij  
Filter media

Čisti filtrat  
Clear filtrate

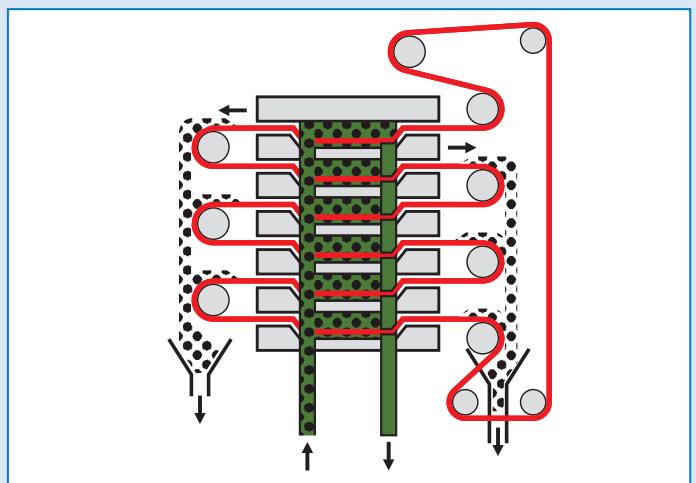


### Ploščna in okvirna filtrska stiskalnica



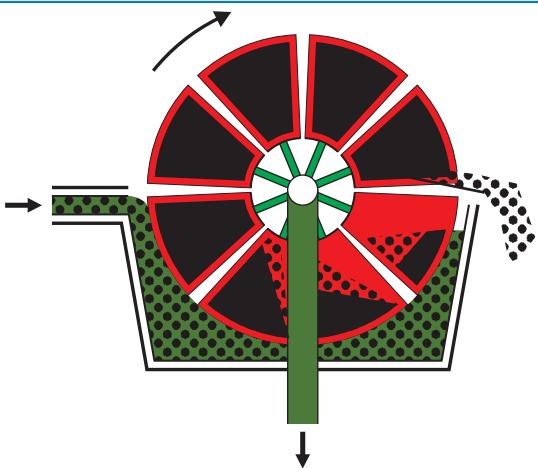
### Plate and frame filter press

### Avtomatska vertikalna filtrska stiskalnica



### Fully-automatic vertical filter press

**Rotacijski vakuum-disk filter**



**Rotary Vacuum disc filter**

**Vakuumski filtri za izločanje trdih delcev iz tekočin**

**Vacuum filters for liquid/solid separation**



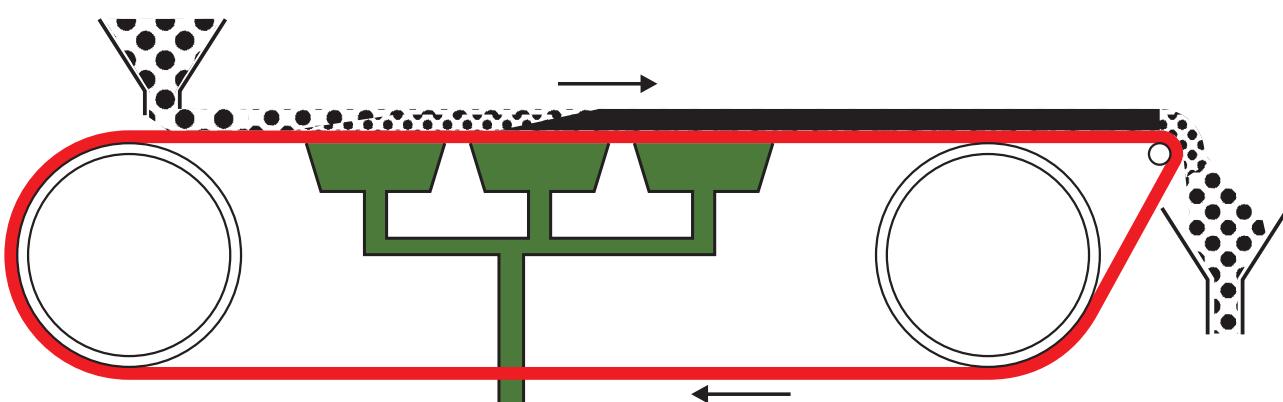
Blato  
Slurry

Filtrski medij  
Filter media

Čisti filtrat  
Clear filtrate

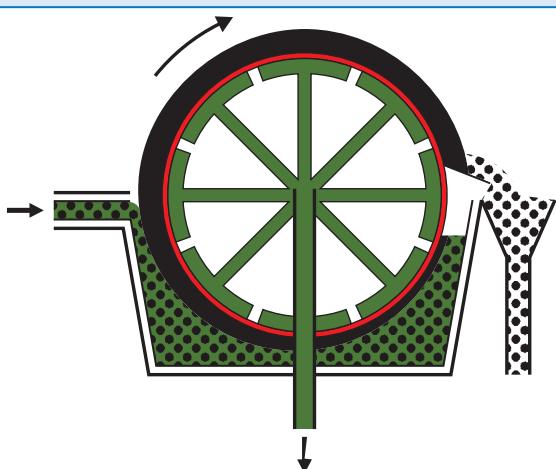


**Vakumski filtrski trak**



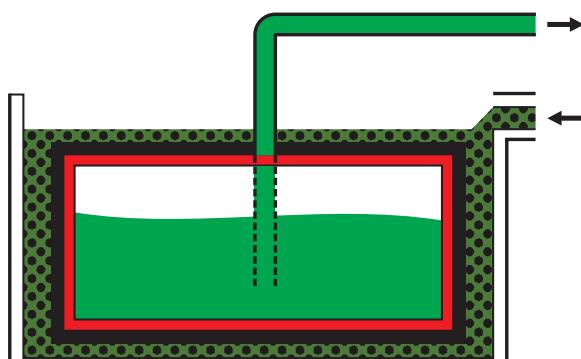
**Vacuum filter belt**

**Rotacijski vakuumski bobnasti filter**



**Rotary Vacuum drum filter**

**Vakuumski lamelni filter**



**Vacuum leaf filter**

