

HORECA 1

Filteri za prečišćvanje
kuhinjskog vazduha

Kitchen odour filtration products

JAK·KA®

*Brži od vetra!
Faster Than The Wind!*



J.5.Г

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2016

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A.1. ESP ELEKTROSTATIČKI FILTERI / ELECTROSTATIC PRECIPITATOR

» **ESP** jedinice se koriste za čišćenje vazdušne mase od masnoća i hidrokarbonata (dim) u kuhinjskim ventilacionim sistemima. One su visoko-efikasne i mogu ukloniti čestice sub-mikronske (0,01 mikron) veličine. Efikasnost filtera dostiže maksimalno 98% prilikom samo jednog prolaska vazduha kroz ESP, zasnovano na naelektrisanju čestica u jonizatorskoj sekciji koje zatim bivaju "uhvaćene" na kolektorskoj ćeliji. Veće čestice u vazdušnoj masi bivaju uklonjene pred-filterom, a završni filter sprečava prodor nakupljenih čestica i bolju distribuciju vazduha. **AW** modeli su opremljeni jedinicom za automatsko čišćenje filtera.

» The **ESP** units are used to clean the airstream of grease and hydrocarbons (smoke) in kitchen exhaust systems. They are highly efficient and can remove particulate down to sub-micron (0.01micron) size. The filter efficiency of up to 98% is attained during a single pass through the **ESP**, based on the charging of particles by an ionisation section which are then trapped on the earth plates in the collector cell. Larger particulate in the airstream would be removed by the pre-filter and lastly through an afterfilter to prevent any re-entrainment and provide good air distribution. **AW** model are equipped with auto-wash unit.



model: ESP 1500E

SPECIFIKACIJA / SPECIFICATION:

MAX. PROTOK VAZDUHA/AIR VOLUME MAX.....2500m³/h 1500cfm
 NAPON / ELECTRICAL SUPPLY.....220/240V 50Hz 1ph
 SNAGA / POWER CONSUMPTION.....30W
 TEŽINA / WEIGHT.....E=55kg, AW=68kg
 MIN-MAX RADNA TEMP. / MIN-MAX WORKING T.....4/56°C
 MAX. VLAŽNOST VAZDUHA / MAX RELATIVE HUMIDITY.....75%

CENA / PRICE:



model: ESP 3000E

SPECIFIKACIJA / SPECIFICATION:

MAX. PROTOK VAZDUHA/AIR VOLUME MAX.....5000m³/h 3000cfm
 NAPON / ELECTRICAL SUPPLY.....220/240V 50Hz 1ph
 SNAGA / POWER CONSUMPTION.....50W
 TEŽINA / WEIGHT.....E=85kg, AW= 100kg
 MIN-MAX RADNA TEMP. / MIN-MAX WORKING T.....4/56°C
 MAX. VLAŽNOST VAZDUHA / MAX RELATIVE HUMIDITY.....75%

CENA / PRICE:



model: ESP 4500E

SPECIFIKACIJA / SPECIFICATION:

MAX. PROTOK VAZDUHA/AIR VOLUME MAX.....7500m³/h 4500cfm
 NAPON / ELECTRICAL SUPPLY.....220/240V 50Hz 1ph
 SNAGA / POWER CONSUMPTION.....50W
 TEŽINA / WEIGHT.....E=118kg, AW=138kg
 MIN-MAX RADNA TEMP. / MIN-MAX WORKING T.....4/56°C
 MAX. VLAŽNOST VAZDUHA / MAX RELATIVE HUMIDITY.....75%

CENA / PRICE:



* Cene AW modela na upit / AW model prices are on request

Sve cene su date bez uracunatog PDV / All Prices Are Given Without V.A.T.



A.1. STANICE ZA AUTOMATSKO PRANJE ESP FILTERA /
ESP AUTOWASH CABINETS

» Stanica sadrži svu opremu sa automatsko pranje i postavlja se na pod blizu ESP-a. Stanica je podeljena na tri odeljka. Prvi odeljak sa PLC kontrolerom, smešten u gornjem desnom uglu (I) stanice. Drugi odeljak sa rezervoarom deterdženta, lociran u donjem desnom uglu (II) stanice. Treći najveći odeljak sa pumpom za deterdžent i cevnom sistemom koji je lociran na dnu stanice (III). Korisnik / instalater mora da obezbedi sledeća povezivanja – sa dovodom tople vode na ulazu u stanicu, vezu crevima do dodatka sa mlaznicama MNA, odvod vode od drenažnog priključka.

» It is an all-in-one cabinet designed to stand on the floor near to the autowash ESP. There are three compartments / enclosures that make up the cabinet. (I) PLC and controls enclosure, which is located in upper right of the station. (II) Detergent Tank compartment, which is located in lower right of the station. (III) Detergent Pump and pipe line compartment, which is the largest section and is located in the bottom of the cabinet. The operator / installer needs to make the following connections - Hot Water supply to the inlet of the cabinet - flexible hoses to the Manifold Nozzle Attachment MNA - The drain pipe from the ESP drain

Osnovne komponente:

1. Oscilatorni sistem mlaznica, mlaznice su montirane sa strane i pomeraju se gore – dole preko kolektorske ćelije čime je površina kolektora potpuno pokrivena. Ulazni pritisak >0,4 Mpa, Pogon: direktno preko krute poluge, 1~ motor, 220V, 50 Hz. Količina: 2 kom po ESP AWu
2. Pumpa za deterdžent: Membranska pumpa za slabe alkalne rastvore (220V, 50 Hz, 1~motor). Količina: 1. po Stanici za pranje
3. PLC kontrolna stanica: IP 65 kućište, Solid – state programabilni logički kontroler, (220V, 50 HZ, 1~ povezivanje) izlaz preko relejnog interfejsa
4. Deo kućišta sa cevnom razvodom: deo kućišta sa otvorima za povezivanje sa vodovodnom mrežom ulaz i izlaz za grejač vode i priključak za mlaznice
5. Grejač vode (opciono): moguće je koristiti protočni i šaržni tip



Main Components:

1. Oscillating spray system, the sprays are fixed laterally but move up and down the collector cells the nozzle is designed to fully cover the collector: Water Pressure Input >0.4MPa, Drive Type: Rigid Rod direct-drive, Drive Motor: Synchronizing Motor (220Vac, 50Hz, 1-Phase), Qty.=2 pcs per ESP AW.
2. Detergent Pump: Diaphragm Pump for weak alkali solution. (220Vac, 50Hz, 1-Phase), Qty = 1 per station.
3. PLC Control Station: IP65 cabinet, Solid-state programmable logic controller. (220Vac, 50Hz, 1-phase). With relay interface output.
4. Pipe-work cabinet: cabinet with holes for water supply connection, water heater input / output connection, and spray nozzle connections.
5. Water Heater (Optional): Instant-heat type or storage type are suitable.

model: **Stanica za auto-pranje ESP za 1 ESP jedinicu / Cabinet for ESP Auto-Wash for 1 ESP Unit**

CENA / PRICE: *

model: **Stanica za auto-pranje ESP 2 ESP jedinice / Cabinet for ESP Auto-Wash for 2 ESP Units**

CENA / PRICE: *

* Vodeni grejač se kupuje odvojeno/
Water Heater is buying separatley

model: **Mlaznice MNA 1500E / Manifold Nozzle MNA 1500E**

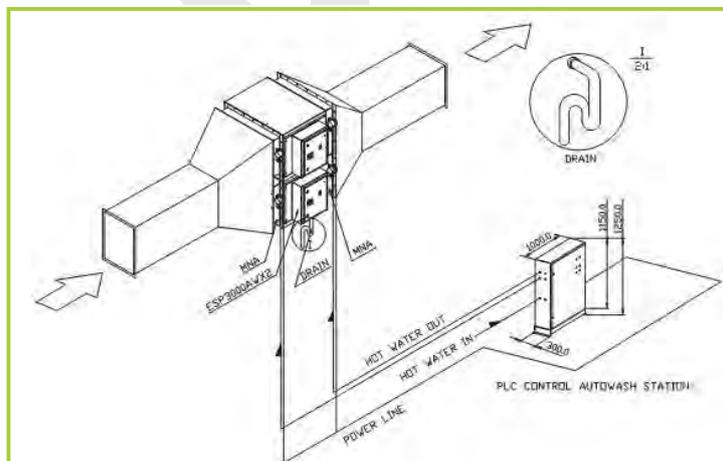
CENA / PRICE:

model: **Mlaznice MNA 3000E / Manifold Nozzle MNA 3000E**

CENA / PRICE:

model: **Mlaznice MNA 4500E / Manifold Nozzle MNA 4500E**

CENA / PRICE:



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A.2. FCS JEDINICE ZA PASIVNU FILTRACIJU / PASSIVE FILTRATION UNITS



FCS-AC-1



FCS-BL-2

model: Sistem deodorizacije/ Deodorization System

» FCS je sistem za prečišćavanje vazduha od masnoća, neprijatnih mirisa, sumpornih jedinjenja, hlora, azotnih oksida... Sve to je moguće u zavisnosti od odgovarajućeg materijala filtera, koji se koristi za ovaj vid hemijskog prečišćavanja. Radi zaštite hemijskog filtera postavljen je filter samog uređaja. Broj i tipovi filtera zavisi od primene.

» The FCS system is an air purification system by odors and gaseous pollutants such as sulfur compounds, ammonia, chlorine, particulates, nitrogen oxide, etc. Depending on the application selects the appropriate material to be used for chemical cleaning. For the protection of the chemical filter is placed before them a device filter. The number and type of filter depends on the application

PRIMENA U:

» Profesionalnim kuhinjama, restoranima, picerijama, kafićama, kantinama, pekarama, farbarama, metalnoj, naftnoj, farmaceutskoj i industriji hartije, bolnicama, na javnim mestima sa velikom količinom zagađenosti...

USES IN:

» Restaurants, prof. kitchens, pizzerias, bars, canteens, bakeries, food manufacturing, dye, metal, oil, pharmacy and paper industries, workshops, hospitals, public gathering place in area with high pollution...

Sistem deodoracije FCS-AC-1 (Sa jednom sekcijom aktivnog uglja)

Deodorization System FCS - AC - 1 (With one stage active carbon)

TIP TYPE	PROTOK AIR FLOW (m³/h)	DUŽINA LENGTH (mm)	ŠIRINA WIDTH (mm)	VISINA HEIGHT (mm)	TEŽINA UGLJA CARBON WEIGHT (kg)	CENA PRICE
FCS - AC - 1 - 15	1500	1800	350	730	24	na upit/ on request
FCS - AC - 1 - 30	3000	1800	650	730	48	na upit/ on request
FCS - AC - 1 - 45	4500	1800	950	730	72	na upit/ on request
FCS - AC - 1 - 60	6000	1800	1270	730	96	na upit/ on request
FCS - AC - 1 - 75	7500	1800	1650	730	120	na upit/ on request
FCS - AC - 1 - 90	9000	1800	1270	1030	144	na upit/ on request
FCS - AC - 1 - 105	10500	1800	1270	1190	168	na upit/ on request
FCS - AC - 1 - 120	12000	1800	1270	1340	192	na upit/ on request

Sistem deodoracije FCS-BL-2 (Sa dve sekcije aktivnog uglja i aktivne alumine)

Deodorization System FCS - BL - 2 (With tow stages active carbon - active allumina)

TIP TYPE	PROTOK AIR FLOW (m³/h)	DUŽINA LENGTH (mm)	ŠIRINA WIDTH (mm)	VISINA HEIGHT (mm)	TEŽINA UGLJA CARBON WEIGHT (kg)	CENA PRICE
FCS - BL - 2 - 15	1500	2300	350	730	40	na upit/ on request
FCS - BL - 2 - 30	3000	2300	650	730	80	na upit/ on request
FCS - BL - 2 - 45	4500	2300	950	730	120	na upit/ on request
FCS - BL - 2 - 60	6000	2300	1250	730	160	na upit/ on request
FCS - BL - 2 - 75	7500	2300	1550	730	200	na upit/ on request
FCS - BL - 2 - 90	9000	2300	1250	1030	240	na upit/ on request
FCS - BL - 2 - 105	10500	1800	1270	1190	280	na upit/ on request
FCS - BL - 2 - 120	12000	1800	1270	1340	320	na upit/ on request

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A.2. FB, FCB, FCS JEDINICE ZA PASIVNU FILTRACIJU /
FB, FCB, FCS PASSIVE FILTRATION UNITS

FB Jedinica za mehaničko filtriranje / FB Mechanical Filtration Unit

TIP / TYPE	OPIS / DESCRIPTION	PROTOK VAZDUHA / AIR SUPPLY (m ³ /h)	DIMENZIJE / DIMENSIONS (mm)	BR.PATRONA / No OF CARTRIDGES	CENA / PRICE
FB-SF-15	PREFILTERSKA SEKCIJA / PREFILTERS BOX	1500	1150x350x730	6	na upit/ on request
FB-SF-30	PREFILTERSKA SEKCIJA / PREFILTERS BOX	3000	1150x650x730	6	na upit/ on request
FB-SF-45	PREFILTERSKA SEKCIJA / PREFILTERS BOX	4500	1150x950x730	6	na upit/ on request
FB-SF-60	PREFILTERSKA SEKCIJA / PREFILTERS BOX	6000	1150x1270x730	6	na upit/ on request
FB-SF-75	PREFILTERSKA SEKCIJA / PREFILTERS BOX	7500	1150X1550 X730	6	na upit/ on request
FB-SF-90	PREFILTERSKA SEKCIJA / PREFILTERS BOX	9000	1150X1270 X950	6	na upit/ on request
FB-SF-105	PREFILTERSKA SEKCIJA / PREFILTERS BOX	10500	1150X1270 X110	6	na upit/ on request
FB-SF-120	PREFILTERSKA SEKCIJA / PREFILTERS BOX	12000	1150X1270 X1340	6	na upit/ on request

Jedinica se sastoji iz 6 sekcija i služi za mehaničko filtriranje vazduha, koji zatim odlazi u jedinicu za hemijsko filtriranje. Rezultati su maksimalni, ako se filteri po sekcijama redovno održavaju (peru, menjaju). Detaljnije videti na stranama 5, 6, 7, 8 i 9. /

The unit consists of 6 sections and used for mechanical filtration of air, which then goes into the unit for chemical filtration. The results are maximum, if the filters in sections maintaining regularly (wash, change). See more detail on pages 5, 6, 7, 8 and 9.

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A.2. FB, FCB, FCS JEDINICE ZA PASIVNU FILTRACIJU /
FB, FCB, FCS PASSIVE FILTRATION UNITS

FCB Jednostepena jedinica za hemijsko filtriranje / FCB 1 Stage Chemical Filtration Unit

TIP / TYPE	OPISA / DESCRIPTION	PROTOK VAZDUHA / AIR SUPPLY (m ³ /h)	DIMENZIJE / DIMENSIONS (mm)	BR.PATRONA / No OF CARTRIDGES	CENA / PRICE
FCB-AC-1-15	SEKCIJA SA PATRONAMA AKTIVNOG UGLJA / BOX WITH ACTIVE CARBON CARTRIDGES	1500	730x350x730	8	na upit / on request
FCB-AC-1-30	SEKCIJA SA PATRONAMA AKTIVNOG UGLJA / BOX WITH ACTIVE CARBON CARTRIDGES	3000	730x650x730	16	na upit / on request
FCB-AC-1-45	SEKCIJA SA PATRONAMA AKTIVNOG UGLJA / BOX WITH ACTIVE CARBON CARTRIDGES	4500	730x950x730	24	na upit / on request
FCB-AC-1-60	SEKCIJA SA PATRONAMA AKTIVNOG UGLJA / BOX WITH ACTIVE CARBON CARTRIDGES	6000	730x1270x730	32	na upit / on request
FCB-AC-1-75	SEKCIJA SA PATRONAMA AKTIVNOG UGLJA / BOX WITH ACTIVE CARBON CARTRIDGES	7500	730X1550X730	40	na upit / on request
FCB-AC-1-90	SEKCIJA SA PATRONAMA AKTIVNOG UGLJA / BOX WITH ACTIVE CARBON CARTRIDGES	9000	730X1270X950	48	na upit / on request
FCB-AC-1-105	SEKCIJA SA PATRONAMA AKTIVNOG UGLJA / BOX WITH ACTIVE CARBON CARTRIDGES	10500	730X1270X110	56	na upit / on request
FCB-AC-1-120	SEKCIJA SA PATRONAMA AKTIVNOG UGLJA / BOX WITH ACTIVE CARBON CARTRIDGES	12000	730X1270X1340	64	na upit / on request

FCS Dvostepena jedinica za hemijsko filtriranje / FCS 2 Stage Chemical Filtration Unit

TIP / TYPE	OPIS / DESCRIPTION	PROTOK VAZDUHA / AIR SUPPLY (m ³ /h)	DIMENZIJE / DIMENSIONS (mm)	BR.PATRONA / No OF CARTRIDGES	CENA / PRICE
FCS-BL-2-15	2 SEKCIJE SA PATRONAMA MEŠAVINE AKTIV. UGLJA I AKTIV. ALUMINE / BOX WITH 2 STAGES OF BLEND MODULES	1500	1150x350x730	4	na upit / on request
FCS-BL-2-30	2 SEKCIJE SA PATRONAMA MEŠAVINE AKTIV. UGLJA I AKTIV. ALUMINE / BOX WITH 2 STAGES OF BLEND MODULES	3000	1150x650x730	8	na upit / on request
FCS-BL-2-45	2 SEKCIJE SA PATRONAMA MEŠAVINE AKTIV. UGLJA I AKTIV. ALUMINE / BOX WITH 2 STAGES OF BLEND MODULES	4500	1150x950x730	12	na upit / on request
FCS-BL-2-60	2 SEKCIJE SA PATRONAMA MEŠAVINE AKTIV. UGLJA I AKTIV. ALUMINE / BOX WITH 2 STAGES OF BLEND MODULES	6000	1150x1270x730	16	na upit / on request
FCS-BL-2-75	2 SEKCIJE SA PATRONAMA MEŠAVINE AKTIV. UGLJA I AKTIV. ALUMINE / BOX WITH 2 STAGES OF BLEND MODULES	7500	1150X1550X730	20	na upit / on request
FCS-BL-2-90	2 SEKCIJE SA PATRONAMA MEŠAVINE AKTIV. UGLJA I AKTIV. ALUMINE / BOX WITH 2 STAGES OF BLEND MODULES	9000	1150X1270X950	24	na upit / on request
FCS-BL-2-105	2 SEKCIJE SA PATRONAMA MEŠAVINE AKTIV. UGLJA I AKTIV. ALUMINE / BOX WITH 2 STAGES OF BLEND MODULES	10500	1150X1270X110	28	na upit / on request
FCS-BL-2-120	2 SEKCIJE SA PATRONAMA MEŠAVINE AKTIV. UGLJA I AKTIV. ALUMINE / BOX WITH 2 STAGES OF BLEND MODULES	12000	1150X1270X1340	32	na upit / on request

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A.2. JEDINICE ZA PASIVNU FILTRACIJU / PASSIVE FILTRATION UNITS

PRIMER PRIMENE U PROF. KUHINJI, JEDINICE KOJA SE SASTOJI IZ 9 SEKCIJA FILTRACIJE / EXAMPLE IMPLEMENTATION OF A PROFESSIONAL KITCHEN THAT CONSISTS OF 9 STAGES OF FILTRATION

1. i 2. Sekcija

- Filter masnoće klase G2 od mrežastog nerđajućeg čelika ili aluminijuma, za zadržavanje vlage i masnoće. Profil 48mm.

Održavanje: Pranjem. Nedeljni pregled pranje po potrebi.

1st and 2nd Stage

- Grease filter class G2 to weave stainless steel or aluminum, to retain moisture and fat. Profile 48mm

Maintenance: Washable. Weekly inspection and cleaning when necessary.



model: FILTER ZA MASNOĆE / GREASE FILTER FLA-E

Klasa filtera po EN779: G2=EU2 / Filter Class at EN779: G2=EU2

Materijal / Material	Aluminium
Okvir / Frame	Nerđajući čelik / Stainless steel
Max. radna temperatura / Max. operational temperature	200°C
Max. radna R.H / Max. operational R.H	100%
Prosečna efikasnost / Average arrestance	G2 - 75%

Tip filtera / Filter type	Klasa filtera / Filter class	Dimenzije / Dimensions	Debiljina okvira / Frame thickness	Protok vazduha / Air Flow	Početni pad pritiska / Initial pressure drop	Cena / Price
		mm	g/mm	m ³ /h	Pa	
FLA-E-G2-48	G2	305 x 604	48	1350	32	na upit/ on request
FLA-E-G2-48	G2	490 x 604	48	2110	32	na upit/ on request
FLA-E-G2-48	G2	610 x 604	48	2630	32	na upit/ on request

- Fiteri masnoće se koriste u prof. kuhinjama, kao prefilteri u sekcijama sa aktivnim ugljem za filtriranje vlage i masnoće, peska i u klima jedinicama. Dug period upotrebe i filteri se održavaju pranjem. /

- Uses in kitchen hoods for greases arrestance, as prefilters in active carbon system, for humidity and oil arrestance, for sand arrestance, air hadling units. Long durability and washable.

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A.2. JEDINICE ZA PASIVNU FILTRACIJU / PASSIVE FILTRATION UNITS

3. Sekcija

- Sintetički filter klase G4, sa naborima i lako zamjenjivim filterskim panelom za skupljanje većih čestica i iskorišćenog ulja. Profil 98 mm.
Održavanje: Zamena samog panela filtera na svake 3 do 4 nedelje. Ušteda do 80%.

3th Stage

- Synthetic filter class G4, corrugated, with an easy replacement filter media for containing large particles and residual oil. Profile 98mm
Maintenance: Change alone filter media every 3-4 weeks. Cost savings of 80%.



model: **Talasasti Z-Line prefilter / Wave Z-Line Prefilter**

*Prefilter Z-linija sa sistemom zamene FP-ZA
 Klasa filtera po EN779: G3=EU3 i G4=EU4 /
 Prefilters With Filter Media Replace System FP-ZA
 Filter Class at EN779: G3=EU3 and G4=EU4*

Materijal / Material	Sintetika / Syntetic
Okvir / Frame	Galvanizovani / Galvanized
Max. radna temperatura / Max. operational temperature	100°C
Max. radna R.H / Max. operational R.H	100%
Prosečna efikasnost / Average arrestance	G3 - 85% G4 - 90%
Otpornost na plamen / Flame resistance	F1 - DIN.53438

Tip filtera / Filter type	Klasa filtera / Filter class	Dimenzije / Dimensions	Debiljina okvira / Frame thickness	Površina filtera / Active Filter Surface	Protok vazduha / Air Flow	Brzina vazduha kroz filter / Air velocity in filter surface	Početni pad pritiska / Initial pressure drop	Krajnji pad pritiska / Final pressure drop	Prosečna efikasnost / Average arrestance	Cena / Price	Cena filtera za zamenu / Filtering media replace price
		mm	mm	m ²	m ³ /h	m/s	Pa	Pa	%		
FP-ZA-G3-98	G3	305 x 604	98	0.36	1944	1.5	80	250	90	na upit/ on request	na upit/ on request
FP-ZA-G3-98	G3	490 x 604	98	0.60	3240	1.5	80	250	90	na upit/ on request	na upit/ on request
FP-ZA-G3-98	G3	610 x 604	98	0.73	3942	1.5	80	250	90	na upit/ on request	na upit/ on request

- Talasasti filteri se koriste kod rekuperatora, kao prefilteri za veću efikasnost samih filtera, prefiltera u farbarama, prefilterima kod sistema sa aktivnim ugljem. Progresivna struktura za veću efikasnost, laka zamena filter panela bez upotrebe alata, ekonomičan jer nije potrebna zamena samog okvira. /
 - Uses in air handling units, as prefilters for higher efficiency filters, prefilters painting plants, prefilters in active carbon system. Progressive structure for bigger arrestance, easy filter media replacement without need of tools, economy because there is no need to replace the frame.

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A.2. JEDINICE ZA PASIVNU FILTRACIJU / PASSIVE FILTRATION UNITS

4. Faza

- Sintetički filter klase F5, natopljen lepljivom smesom, sa naborima i lako zamenjivim filterskim panelom za skupljanje sitnijih čestica i zaostalog ulja. Profil 98 mm.

Održavanje: Zamena samog panela filtera na svake 4 do 6 nedelje. Ušteda do 80%.

4th Stage

- Synthetic filter class F5 soaked glutinous substance, corrugated, with an easy replacement of filter for containing the small particles and residual oil. Profile 98mm.

Maintenance: Change alone filter media every 4-6 weeks. Cost savings of 80%.



model: **Talasasti Z-Line prefilter / Wave Z-Line Prefilter**

Prefilter Z-linija sa sistemom zamene FP-ZA

Klasa filtera po EN779: F5=EU5 /

Prefilters With Filter Media Replace System FP-ZA

Filter Class at EN779: F5=EU5

Materijal / Material	Sintetika / Syntetic
Okvir / Frame	Galvanizovani / Galvanized
Max. radna temperatura / Max. operational temperature	100°C
Max. radna R.H / Max. operational R.H	100%
Prosečna efikasnost / Average arrestance	G3 - 85% G4 - 90%
Otpornost na plamen / Flame resistance	F1 - DIN.53438

Tip filtera / Filter type	Klasa filtera / Filter class	Dimenzije / Dimensions	Debiljina okvira / Frame thickness	Površina filtera / Active Filter Surface	Protok vazduha / Air Flow	Brzina vazduha kroz filter / Air velocity in filter surface	Početni pad pritiska / Initial pressure drop	Krajnji pad pritiska / Final pressure drop	Prosečna efikasnost / Average arrestance	Cena / Price	Cena umetka filtera / Filtering media replace
		mm	mm	m ²	m ³ /h	m/s	Pa	Pa	%		
FP-ZA-F5-98	F5	305 x 604	98	0.36	1944	1.5	80	250	90	na upit/ on request	na upit/ on request
FP-ZA- F5-98	F5	490 x 604	98	0.60	3240	1.5	80	250	90	na upit/ on request	na upit/ on request
FP-ZA- F5-98	F5	610 x 604	98	0.73	3942	1.5	80	250	90	na upit/ on request	na upit/ on request

- Talasasti filteri se koriste kod rekuperatora, kao prefilteri za veću efikasnost samih filtera, prefiltera u farbarama, prefilterima kod sistema sa aktivnim ugljem. Progresivna struktura za veću efikasnost, laka zamena filter panela bez upotrebe alata, ekonomičan jer nije potrebna zamena samog okvira. /

- Uses in air handling units, as prefilters for higher efficiency filters, prefilters painting plants, prefilters in active carbon system. Progressive structure for bigger arrestance, easy filter media replacement without need of tools, economy because there is no need to replace the frame.

Sve cene su date bez uracunatog PDV / All Prices Are Given Without V.A.T.



A.2. JEDINICE ZA PASIVNU FILTRACIJU / PASSIVE FILTRATION UNITS

5. Sekcija

- Stabilni kompaktni filter klase F8 izradjen od vlakana fiberglasa sa veoma gustim naborima, koji zadržavaju sitnije čestice kao i čađ. Profil 292 mm.

Održavanje: Zamena filtera na svaka 2-4 meseca.

5th Stage

- Stable compact filter class F8 fiberglass fibers with very dense folds for containing the small particles and soot. Profile 292mm

Maintenance: Replace the filter every 2-4 months

**model: Kompaktni filteri / Compact Filters
FBF-V**

Klasa filtera po EN779: F5-F9 = EU5-EU9 /

Filter Class at EN779: F5-F9 = EU5-EU9



Materijal / Filter material	Fiberglas / Glass fiber
Okvir / Frame	Plastika / Plastic
Max. radna temp. / Max. operational temp.	60°C
Max. radna R.H / Max. operational R.H	100%
Prosečna efikasnost / Average Efficiency at 0.4µm	F5 - 52% F6 - 65% F7 - 85% F8 - 90% F9 - 95%
Otpornost na plamen / Flame resistance	F1 - DIN.53438

Tip filtera / Filter Type	širina x visina / width x height	Debljina okvira / Frame Thickness	Površina filtera / Filter Area	Air Flow / Protok vazduha	F8		
					Početni/krajnji pad pritiska / Initial/Final Pressure drop	Prosečna efikasnost pri 0,4 mµ / Average efficiency at 0,4 mµ	Cena / Price
	mm	mm	m ²	m ³ /h	Pa	% 0.4mµ	
FBF-V-F8-292	287 x 592	292	9.50	2100	120/650	90	na upit/ on request
FBF-V-F8-292	490 x 592	292	15.0	3350	120/650	90	na upit/ on request
FBF-V-F8-292	592 x 592	292	19.0	4250	120/650	90	na upit/ on request

* Cene za modele sa filterom klase F5, F6, F7 i F9 na upit. /

* Prices for models with filter class F5, F6, F7 and F9 upon request.

- Kompaktni filteri se koriste kod rekuperatora za čist vazduh u prostorijama, kancelarijama, bolnicama, farmaciji i industriji hrane, kao prefilteri za veću efikasnost samih filtera, prefiltera u sistemima sa aktivnim ugljem. Velika površina filtera u malom potrebnom prostoru, veliki kapacitet zadržavanja prašine, izdržljivost, trpi veliki pritisak, izuzetno stabilno kućište. /

- Uses in air hadling units for clean rooms, in offices, hospitals, pharmaceutical and food industries, as prefilters for higher efficiency filters, prefilters in active carbon systems. Big filter area in small required space, high dust holding capacity, long durability, high pressure load, extremely stable casing.

Sve cene su date bez uracunatog PDV / All Prices Are Given Without V.A.T.



A.2. JEDINICE ZA PASIVNU FILTRACIJU / PASSIVE FILTRATION UNITS

6. Sekcija

- Potpuno stabilan HEPA filter klase H10 ili H12 izradjem od vlakana fiberglasa sa veoma gustim naborima, koji zadržavaju mikro-čestice i čađ. Profil 292mm.

Održavanje: Zamena filtera na svakih 3-6 meseci.

6th Stage

- Absolutely stable HEPA filter class H10 or H12 fiberglass fibers with very dense crimp to retain micro-particles and soot. Profile 292mm.

Maintenance: Replace the filter every 3-6 months.



model: Kompaktni HEPA filteri / Compact HEPA Filters FHBF-V

Klasa filtera po EN1882: H10-H13 = EU10-EU13 / Filter Class at EN1882: H10-H13 = EU10-EU13

Materijal / Filter material	Fiberglas / Glass fiber
Okvir / Frame	Plastika / Plastic
Max. radna temp. / Max. operational temp.	70°C
Max. radna R.H / Max. operational R.H	90%
Prosečna efikasnost pri 0.4µm / Average Efficiency at 0.4µm	H10 - 85% H11 - 95% H12 - 99.5% H13 - 99.95%
Otpornost na plamen / Flame resistance	F1 - DIN.53438

						H10		
Tip Filter / Filter Type	Dimenzije širina x visina / Dimensions width x height	Debljina okvira / Frame thickness	Površina filtera / Filter Area	Protok vazduha / Air Flow	Krajnji pad pritiska / Final pressure drop	Početni pad pritiska / Initial pressure drop	Prosečna efikasnost pri 0,4 mµ / Average efficiency at 0,4 mµ	Cena / Price
	mm	mm	m ²	m ³ /h	Pa	Pa	% 0.4mµ	
FHBF-V-H10-292	287 x 592	292	8.5	1700	600	170	85	na upit / on request
FHBF-V-H10-292	490 x 592	292	15.0	2800	600	170	85	na upit / on request
FHBF-V-H10-292	592 x 592	292	19.0	3400	600	170	85	na upit / on request

* Cene za modele sa filterom klase H11, H12 i H13 na upit. /

* Prices for models with filter class H11, H12 and H13 upon request.

- Kompaktni filteri se koriste kod rekuperatora za čist vazduh u prostorijama, kancelarijama, bolnicama, farmaciji i industriji hrane, kao predfilteri za veću efikasnost samih filtera, predfiltera u sistemima sa aktivnim ugljem. Velika površina filtera u malom potrebnom prostoru, veliki kapacitet zadržavanja prašine, izdržljivost, trpi veliki pritisak, izuzetno stabilno kućište. /

- Uses in air hadling units for clean rooms, in offices, hospitals, pharmaceutical and food industries, as prefilters for higher efficiency filters, prefilters in active carbon systems. Big filter area in small required space, high dust holding capacity, long durability, high pressure load, extremely stable casing.

Sve cene su date bez uracunatog PDV / All Prices Are Given Without V.A.T.



B.1. FILTERI SA AKTIV. UGLJEM ILI MEŠAVINE AKTIV. UGLJA I AKTIV. ALUMINE / ACTIVE CARBON OR ACTIVE CARBON AND ACTIVE ALLUMINA BLEND FILTERS

7. i 8. Sekcija

- Hemijski filter za prečišćavanje u obliku cilindričnih ili pravougaonih patrona, koji sadrži aktivan uglj ili mešavinu aktivnog uglja i aktivne alumine, impregniranih sa kalijum permanganatom, kako bi zadržao neprijatne mirise.

Održavanje: Kontrola hemijskih filtera na svaka 3 meseca i zamena sadržaja ukoliko je to potrebno. Ušteda do 60%.

7th and 8th Stage

- Chemical purification filter in the form of a cartridge or canister containing activated carbon or a mixture of activated carbon and activated alumina impregnated with potassium permanganate to retain odors.

Maintenance: Control of chemical filters every 3 months and replace the grains contained in canisters or cartridges when needed. Cost savings of 60%.



Patrone sa aktivnim ugljem

- Za deodoraciju i prečišćavanje vazduha od štetnih gasova kao što su: HCl, HF, NO_x i SO₂, koji potiču iz kuhinja, farbara, garaža, laboratorija, na aerodromima, u hemijskim industrijama, muzejima, bolnicama itd.

Patrone sa aktivnim ugljem i aktivnom aluminom

- Za deodoraciju i prečišćavanje vazduha od štetnih gasova kao što su: HCS, SO₂, NO_x, CH₂O, H₂S, NH₃, VOCs, jedinjenja hlora), koji potiču iz prostorija za čuvanje životinja, kuhinja, prostorija za pušenje, toaleta...



Active carbon cartridges

- For deodorization and purification of the air from harmful gases (like: HCl, HF, NO_x and SO₂) in kitchens, paintshops, parkings, laboratories, airports, chemical industries, museum, hospitals etc.

Active carbon and active aloumina cartridges

- For deodorization and purification of the air from harmful gases (like: HC₂S, SO_x, NO_x, CH₂O, H₂S, NH₃, VOCs, chlorine) in parkings rooms with animals, kitchens, smoking rooms, WC...

Filteri u cilindričnim patronima / Filters In Cylindrical Cartridges

TIP / TYPE	DOTOK VAZDUHA / AIR SUPPLY m ³ /h	DIMENZIJE / DIMENSIONS mm	CENA / kom PRICE / piece
Baza sa 4 patrone sa aktivnim ugljem / Base with 4 cartridges of active carbon	750	305x305	157,00
Baza sa 8 patrona sa aktivnim ugljem / Base with 8 cartridges of active carbon	1500	305x610	299,00
Baza sa 12 patrona sa aktivnim ugljem / Base with 12 cartridges of active carbon	2250	610x508	444,00
Baza sa 16 patrone sa aktivnim ugljem / Base with 16 cartridges of active carbon	3000	610x610	588,00
Patrona sa aktivnim ugljem / Active carbon cartridge (FCC-AC)	188	Ø 145 - L 450	35,00
Patrona sa mešavinom granula aktivnog uglja 50% i act. alumina ALPHASORB 8 50% (FCC-BL) Active Carbon granules 50% and active alumina ALPHASORB 8 50%	188	Ø 145 - L 450	na upit / on request
Baza za 4 patrone / 4 cartridges base		305x305	17,00
Baza za 8 patrona / 8 cartridges base		305x610	19,00
Baza za 12 patrona / 12 cartridges base		610x508	24,00
Baza za 16 patrone / 16 cartridges base		610x610	28,00

Sve cene su date bez uracunatog PDV / All Prices Are Given Without V.A.T.



B.1. FILTERI SA AKTIV. UGLJEM ILI MEŠAVINE AKTIV. UGLJA I AKTIV. ALUMINE /
ACTIVE CARBON OR ACTIVE CARBON AND ACTIVE ALLUMINA BLEND FILTERS

AKTIVNI UGALJ / ACTIVE CARBON

TIP/TYPE	PREČNIK GRANULE / DIAMETER	CENA / PRICE /Kg
Granule aktivnog uglja / Active carbon granules	3mm	160,00

AKTIVNA ALUMINA / ACTIVE ALLUMINA

TIP/TYPE	PREČNIK GRANULE / DIAMETER	CENA / PRICE /Kg
Aktivna alumina ALPHASORB 8 / Active Allumina ALPHASORB 8 (FCG-AL)	3mm	na upit/ on request
Aktivna alumina ALPHASORB 3 (samo za amonijak) / Active Allumina ALPHASORB 3 (only for amoniak) (FCG-SOR3)	3mm	na upit/ on request
Aktivna alumina ALPHASORB 5 (samo za hlor) / Active Allumina ALPHASORB 5 (only for chlorine) (FCG-SOR5)	3mm	na upit/ on request
Aktivna alumina ALPHASORB 15 / Active Allumina ALPHASORB 15 (FCG-SOR15)	3mm	na upit/ on request

MEŠAVINA AKT. UGLJA I AKT. ALUMINE / MIX OF ACT. CARBON AND ACT. ALLUMINA GRANULES

TIP/ TYPE	PREČNIK GRANULE / DIAMETER	CENA / PRICE /Kg
Granule aktivnog uglja 50% i aktivna alumina ALPHASORB 8 50% / Active carbon granules 50% & active allumina ALPHASORB 8 50% (FCG-BL)	3mm	na upit/ on request

Sve cene su date bez uracunatog PDV / All Prices Are Given Without V.A.T.



B.1. FILTERI SA AKTIV. UGLJEM ILI MEŠAVINE AKTIV. UGLJA I AKTIV. ALUMINE / ACTIVE CARBON OR ACTIVE CARBON AND ACTIVE ALLUMINA BLEND FILTERS



model: **Filteri u pravougaonim patronima / Filters In Rectangular Cartridges**

Materijal / Filter material	Aktivni uglj – Alumina - Mešavina / Active carbon – Allumina - Blend
Max. radna temp. / Max. operational temp.	50°C
Max. radna R.H / Max. operational R.H	90%

Tip filtera / Filter type	Ispuna / Media	Dimenzije / Dimensions	Max. protok vazduha / Air Max Flow	Pad pritiska / Pressure Drop	Težina ispune / Filtering Media Weight	Cena / Price
		mm	m ³ /h	Pa	kg	
FCK-BL-HS	AP-12-half size-ALPHABLEND-8	300x150x450	375	47	5,05	na upit/ on request
FCK-BL-HS	AP-12-half size-ALPHABLEND-8	300x300x300	750	160	9,25	na upit/ on request
FCK-BL-FS	AP-12-full size-ALPHABLEND-8	600x150x450	750	49	10,1	na upit/ on request
FCK-BL-FS	AP-12-full size-ALPHABLEND-8	600x300x300	1500	80	18,5	na upit/ on request

- Patrone sa 100% aktivnim ugljem

Za deodoraciju i prečišćavanje vazduha od štetnih gasova kao što su:

H₂S, HF, NO_x, SO₂, HCl, NH₃, koji potiču iz kuhinja, farbara, garaža, laboratorija, na aerodromima, u hemijskoj industriji, muzejima, bolnicama itd.

- Patrone sa 100% aluminom

Za prečišćavanje od: aldehida, amino-kiselina, etilena, organskih jedinjenja, kiselina, oksidi sumpora, koji potiču iz likovnih galerija, arhiva, prostorija za čuvanje voća i povrća itd.

- Mešavina aktivnog uglja i aktivne alumine

Za prečišćavanje od: HCS, SO_x, NO_x, CH₂O, H₂S, hlorida, koji potiču iz garaža, prostorija za čuvanje životinja, kuhinja, soba za pušenje, toaleta. Za specijalne zahteve dostupni su i drugi vidovi filtera.

- 100% Active Carbon

For deodorization and for purification of the air from harmful gases like:

H₂S, HF, NO_x, SO₂, HCl, NH₃, in kitchens, paintshops, parkings, laboratories, airports, chemical industries, museums, hospital etc.

- 100% Allumina

For like: aldehydes, amines, ethylene, organic, acids, oxides sulphur componnoys in art galleries, archives, fruits and vegetables preservation rooms etc.

- Blend

For like: HCS, SO_x, NO_x, CH₂O, H₂S, chlorine, in parkings, rooms with animals, kitchens, smoking rooms, wc&s

For special cases and other filtering media are available.

Sve cene su date bez uracunatog PDV / All Prices Are Given Without V.A.T.



B.1. FILTERI SA AKTIV. UGLJEM ILI MEŠAVINE AKTIV. UGLJA I AKTIV. ALUMINE / ACTIVE CARBON OR ACTIVE CARBON AND ACTIVE ALLUMINA BLEND FILTERS

9. Sekcija

- Talasasti filter koji sadrži aktivni ugalj, jednostavno se menja i zadržava neprijatne mirise. Profil 98mm.

Održavanje: Menja se sam filter na svakih 6 meseci. Ušteda do 70%.

9th Stage

- Activated carbon, corrugated, with an easy replacement filter media for containing odors. Profile 98mm.

Maintenance: Change alone filter media every 6 months. Cost savings of 70%.



model: **Talasasti Z-line filter sa aktivnim ugljem / Wawe Z-line Active Carbon Filter FC-ZA**

Materijal / Material	Sintetika / Syntetic
Okvir / Frame	Galvanizovani / Galvanized
Max. radna temperatura / Max. operational temperature	100°C
Max. radna R.H / Max. operational R.H	100%
Prosečna efikasnost / Average arrestance	G3 - 85% G4 - 90%
Otpornost na plamen / Flame resistance	F1 - DIN.53438

Tip filtera / Filter type	Klasa filtera / Filter class	Dimenzije / Dimensions	Debiljina okvira / Frame thickness	Površina filtera / Active Filter Surface	Protok vazduha / Air Flow	Brzina vazduha kroz filter / Air velocity in filter surface	Početni pad pritiska / Initial pressure drop	Krajnji pad pritiska / Final pressure drop	Prosečna efikasnost / Average arrestance	Cena / Price	Cena umetka filtera / Filtering media replace price
		mm	mm	m ²	m ³ /h	m/s	Pa	Pa	%		
FC-ZA-G3-98	G3	305 x 604	98	0.34	1836	1.5	80	250	90	na upit/ on request	na upit/ on request
FC-ZA-G3-98	G3	490 x 604	98	0.70	3780	1.5	80	250	90	na upit/ on request	na upit/ on request
FC-ZA-G3-98	G3	610 x 604	98	0.70	3780	1.5	80	250	90	na upit/ on request	na upit/ on request

Sve cene su date bez uracunatog PDV / All Prices Are Given Without V.A.T.



B.2. O.N. 100 | NEUTRALIZATOR MIRISA / ODOUR NEUTRALISER

» **O.N. 100** je uređaj visoke tehnologije, jednostavan za ugradnju, projektovan da neutrališe neprijatne mirise iz vazduha koji potiču iz ventilacionih kanala svih tipova restorana i industrijskih objekata.

- Instant kontrola mirisa
- Efikasnost do 90%
- Vizuelni pokazatelj neutralizovanih agenata
- Potpuno podesiv
- Jednostavno i ekonomično za održavanje
- Jednostavna ugradnja u postojeće ili nove instalacije
- Ne stvara dodatni otpor protoku vazduha

» The **O.N. 100** is a high tech, simple to install machine, designed to help neutralise odour laden air in the exhaust ducts of restaurants and industrial plants of all types.

- Instant Control of Odours
- Efficiency up to 90%
- Visual Awareness of Neutralising Agent
- Fully adjustable
- Easy and Economical to Maintain
- Installed easily into new/existing systems
- No resistance to the Airflow

model: **O.N. 100**

SPECIFIKACIJA / SPECIFICATION:

NAPON / ELECTRICAL SUPPLY.....	220/240V 50Hz
SNAGA / POWER CONSUMPTION.....	40W
TEŽINA / WEIGHT.....	12,25kg
KAPACITET / CAPACITY.....	do/up to 15,000m ³ /h
NAPON JONIZACIJE / IONISATION VOLTAGE.....	15 Kv negative

CENA / PRICE: 3.360,00



O.N. 100

model: **TEČNOST ZA O.N. 100 / O.N. 100 LIQUID**

CENA / PRICE: 37,00



Sve cene su date bez uracunatog PDV / All Prices Are Given Without V.A.T.



B.3.

UV-C | NEUTRALIZATOR MIRISA / ODOUR NEUTRALISER

» **UV-C** (kratkotalasno ultraljubičasto zračenje) tehnologija se temelji na sinergiji, koja se javlja pri kombinovanju ozona i ultra-ljubičaste svetlosti.

» Svaka jedinica se nalazi direktno na toku kuhinjskih para i može da ima od 8 do 24 UV-C lampi, s tim da svaka baza ima 8 lampi.

» U zavisnosti od potrebne količine ozona, odnosno od količine kuvanja, ugrađuje se broj baza sa UV-C lampama.

» Ozon kombinovan sa slobodnim radikalima hidroksila, oba vrlo reaktantna oksidansa, deluju tako što vrše oksidaciju neprijatnih mirisa i masnoće, i time trajno menjaju strukturu molekula ovih jedinjenja.

- Visoko efikasna UV-C tehnologija
- Redukcija kuhinjskih mirisa do 90%
- Robusna, kompaktna konstrukcija
- Minimalno održavanje
- UV-C lampe su dobro obezbeđene iza panela
- Opciono, samo-dijagnostički sistem

» **UV-C** (short-wavelength ultraviolet radiation) technology is based on the synergy which occurs when ozone and ultra violet light are combined.

» Each individual unit sits directly in the air stream of the kitchen extract duct and can feature from 8 to 24 high output UV-C lamps supplied in racks of 8.

» The number of racks specified will be dependent on the cooking process coupled with the air flow volume which will dictate the amount of ozone needed.

» The ozone combined with hydroxyl free radicals, both highly reactive oxidants, then act to oxidise odours and grease, permanently destroying and altering the molecular structure of the compounds.

- High efficiency UV-C technology
- Cooking odour's reduced by up to 90%
- Robust, compact construction
- Minimum maintenance
- High security - UV-C lamps locked behind panels
- Optional self-diagnostic system



Jedinica/Unit		UV-C 1500	UV-C 3000	UV-C 3000	UV-C 4500	UV-C 4500
Lampi/Lamps	kom	8	8	16	16	24
Potrošnja / Power Consumption	W	560	560	1120	1120	1680
Kapacitet/ Capacity	m ³ /sec	0,7	1,4	1,4	2,1	2,1
Težina/Weight	kg	43	62	66	85	89
Napajanje/Power Supply		220-240V 50Hz				
Kućište/Housing		Čelik obojen epoxy bojom / Epoxy coated steel				

Cena/Price **3.394,00** **3.514,00** **4.822,00** **5.360,00** **6.668,00**

Sve cene su date bez uracunatog PDV / All Prices Are Given Without V.A.T.



B.4.

UV-O 1000 | NEUTRALIZATOR MIRISA / ODOUR NEUTRALISER

» Uredjaj za prečišćavanje vazduha **UV-O 1000** koristi UV-C tehnologiju koja proizvodi radikale bez ozona i hidroksila kako bi oksidizovao mirise kroz proces koji se zove ozonizacija. Za razliku od drugih UV-C sistema, **UV-O 1000** se nalazi izvan kanala sa kojim se povezuje preko prstenastog priključka za creva malog prečnika preko kojih se priključuje na kanal. Opšte je prihvaćeno da je najbolji način upotrebe UV-C-a u samoj struji vazduha. Upotrebom lampi van strujanja vazduha u mogućnosti smo da potpuno kontrolišemo stanje lampi, koje omogućavaju ujednačen ispus, vazduh koji ulazi u **UV-O 1000** ne dolazi kroz izvod i on je filtriran po ulasku, sistem omogućava ujednačenu distribuciju čistog i prerađenog vazduha u ispusni sistem. Dodatna prednost je da je gubitak pritiska posle instalacije sistema minimalan i ujednačen.

Uređaj dolazi standardno sa 6 lampi, ali po potrebi može da se doda još jedan nosač za još 6 lampi. Maksimalni kapacitet za komplet od 6 lampi je 0,5 m³/s.

» The Purified Air **UV-O 1000** unit uses UV-C technology to produce ozone and hydroxyl free radicals to oxidise odours through a process of Ozonolysis. Unlike other UV-C systems, the **UV-O 1000** is located outside the kitchen extract duct and connects via spigots and small diameter ducting. It is widely accepted that the best way to apply UV-C is in the airstream itself. By applying the lamps outside of the airstream we are able to fully control the condition of the lamps which provides for a uniform output, the air entering the **UV-O 1000** does not come via the extract and is filtered on entry, the system allows a uniform delivery of clean treated air to enter the extract system. A further advantage is that the pressure loss exhibited when the unit is installed is low and uniform.

The unit comes as standard with 6 lamps but a further rack can be added to make a total of 12 lamps. Maximum capacity for 6 lamps set is 0.5m³/sec.



UV-O 1000

UV-O 1000: sa 6 lampi / with 6 lamps
CENA / PRICE: 3.255,00

UV-O 1000: sa 12 lampi / with 12 lamps
CENA / PRICE: 4.095,00

Sve cene su date bez uracunatog PDV / All Prices Are Given Without V.A.T.



Rezervni delovi za ESP jedinice / Spare parts for ESP Units

OPIS / DESCRIPTION	CENA / PRICE (€)
Ionizer Wire With Springs (8 sets per rack)	26,00
Ionizer HV Teflon insulator	19,50
Door Hinge (12mm)	19,50
Door Hinge (15mm)	26,00
HF Driver	416,00
HV Transformer	468,00
HV Short circuit Protector	351,00
Power Transformer (5 wire output)	117,00
Door Safety Interlock Switch	39,00
Main Rotary Switch	104,00
Rocker Switch (Yellow)	31,20
Alarm Indicator (Red)	16,90
6A MCB Switch	31,20
Earth Terminal	29,90
HV Output terminal	39,00
Collection Cell Insulator Black Thermoset	26,00
HV Cable (5pcs per set)	32,50
By-pass Protector	16,90
Cover star knob	13,00
Complete ESP Door and Electronics	1.755,00
Collection cell Unit including ioniser	845,00
Aluminium mesh Filter Element	65,00
Heavy Duty mesh filter	75,40
G3 or G4 Media filter in frame	40,30
G3 Replacement pads (10pcs)	65,00
G4 Replacement pads (10pcs)	75,40
Carbon impregnated filter media in frame	42,90
Pack of five replacement carbon pads	176,00
F5 Bag filter 480x450x300mm – 20hdr	67,60
F6 Bag filter 480x450x300mm – 20hdr	71,50
F7 Bag filter 480x450x300mm – 20hdr	75,40
F8 Bag filter 480x450x300mm – 20hdr	79,30
F9 Bag filter 480x450x300mm – 20hdr	81,90

Sve cene su date bez uracunatog PDV / All Prices Are Given Without V.A.T.



JAK-KA®

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