

**alp**<sup>®</sup> ELEKTROSTATİK  
FİLTRE SİSTEMLERİ  
“havanızın konforu için...”



TÜRKÇE  
ENGLISH  
DEUTSCH  
РУССКИЙ  
العربية  
فارسی

**alperen**<sup>®</sup>

MÜHENDİSLİK ISITMA SOĞUTMA  
SİSTEMLERİ SAN VE TİC LTD ŞTİ

ELEKTROSTATİK FİLTRE  
ÜRÜN KATALOĞU

[alperen.com.tr](http://alperen.com.tr)

**ENGLISH**

**alp**<sup>®</sup> **ELECTROSTATIC  
FILTER SYSTEMS**  
“for the comfort of your air”



**alperen**<sup>®</sup>  
ENGINEERING

**alperen.com.tr**

## About Us

### Alperen Mühendislik Heating and Cooling Systems Industry and Trade Limited Company

Starting its commercial business in January 2000, Alperen Mühendislik has been manufacturing air-conditioning and HVAC filtration products.

Our company manufactures standard and hygienic air conditioning plants, water cooling systems, clean room ventilation equipment, rooftop air conditioning systems, electrostatic filter systems and customized production solutions depending on your needs.

Along with hygienically climatizing places classified as clean rooms such as operation rooms, intensive care units, laboratories, electronic industry and food institute, Alperen Mühendislik manufactures the needs of air conditioning and ventilation for all kinds of closed areas such as shopping malls, factories, hotels, offices, educational institutions and production facilities as well.

Thanks to its r&d studies, our company has led the way in Turkey by manufacturing specially designed concrete cooling systems based on cooling concrete in mold.

Our company meticulously fulfills the phases of exploration, informing, project designing, quoting, manufacturing, installation, implementation and service.

We aim to be closer and offer better service to you with our meticulously prepared and always up-to-date web sites. Through online data sharing, you can have information about our products, brands and models, calculate capacity, receive quote, order, buy or ask for service.

Our work is based on aesthetic appearance, high performance, economic use, durability, fast service and your pleasure.

Our company works to offer you the most qualified, the most economic and the least energy consuming devices with the best performance by furnishing its products with high technology systems.

Alperen Mühendislik works nonstop to increase domestic production through following the latest innovations in rapidly emerging heating, cooling, ventilation, air conditioning and HVAC filtration industries.

### Our Products:

- Electrostatic Filter Systems
- Standard Air Conditioning Plants
- Hygienic Air Conditioning Plants
- Package Type Hygienic Air Conditioning Plants
- Dehumidification Plants
- Air Conditioning Plants with Sensitive Control
- Rooftop Air Conditioning Systems
- Water Cooling Systems
- Concrete Cooling Systems
- Fan coil Systems
- Convector Systems
- Ventilation Equipment
- Air-Ducts
- Air Filters

## Alp Electrostatic Filter



- Effective solutions
  - Easy to use
  - Washable filter
  - Silent running
  - Esthetic design
  - Graphic LCD screen
  - Error alert system
  - Pollution alert system
- and many more new features ...

Get rid of unwanted **smells** and **oil smoke** that risks the employee's **health** and the **environment**.

- ▶ It is used in all kinds of places to filter smoke and smell,
- ▶ effectively filters oil, smoke, dust and smell,
- ▶ prevents oil from accumulating in your ducts and chimneys,
- ▶ saves you from unwanted smoke and smell,
- ▶ makes you work without harming the environment,
- ▶ reduces fire risk,
- ▶ reduces operation costs,
- ▶ accords with the technical terms required by the official institutions,
- ▶ has the certificates of TM, TSE-HYB, CE, ISO 9001:2008, SSB, TPE.

Active electrostatic filtered air conditioning units can also be used in all kinds of areas where smoke and smell are unwelcome such as air pollution causing smoking rooms and cafeterias along with all industrial areas, laboratories, food production areas and dining halls.



## Alp Elektrostatic Filtered Air Cleaning Plants

"for the comfort of your air"

Active electrostatic filtered air cleaning units are 99% effective on filtering food and industrial smoke. Our air cleaning plants are designed according to your needs. Our plants have the certificates of TM, TSE-HYB, CE, ISO 9001:2008, SSB.

Designed by the intensive work of our professional engineers, our electrostatic filters and electrostatic filtered air cleaning plants are manufactured with the CNC machines of our company in our factory located in Istanbul by our manufacturing crew with 100% domestic capital.



You can call our **professional engineers** who offer counseling for free to find a **solution** for your **smell** and **smoke** problems.



Alp active electrostatic filters are also quite effective on filtering weld and oil steam occurred in industrial facilities along with restraining cooking smoke and smell. In our electrostatic filters, 0,3% micron and bigger particles are filtered up to 99% and apparent smoke is completely separated from air. Moreover, annoying smells are prevented by active carbon filters or extra filters with ozone.

Alp electrostatic filtered plants make it possible for you to build kitchen ventilation systems without a chimney or to prevent smell and smoke coming out of your production facility in a level of keeping environment safe. After you confirmed the detailed quote of the air cleaning plants which is calculated based on your needs in order to offer a solution for your smoke and smell problems and to have an effective outcome, the designed system is manufactured in our factory located in Istanbul.

## Alp Electrostatic Filtered Air Cleaning Plants

### Electrostatic Filtered Air Cleaning Plants are used;

- ▶ Barbecues,
  - ▶ Grills,
  - ▶ Ovens,
  - ▶ Kitchens,
  - ▶ Dining halls,
  - ▶ Kebab and doner grill machines,
  - ▶ Printing houses,
  - ▶ Laboratories,
  - ▶ Smoking rooms,
  - ▶ Industrial presses,
  - ▶ Laser cut machines,
  - ▶ Injection machines
  - ▶ Digital printing machines,
  - ▶ All kinds of industrial machines,
  - ▶ Weld and laser smoke,
- ▶ All kinds of places where smoke and smell are unwanted.



Running **Alp Electrostatic Filtered Air Cleaning Plants** is simple, connect the cables, turn the electricity on and turn the **start switch**.

Alp electrostatic filtered air cleaning devices offer perfect solutions with different applying options according to the density of the pollution in the area and composing type.

Our electrostatic filtered air cleaning devices are manufactured and designed according to your architectural decoration and your needs.

Alp electrostatic filtered clean air plants which guarantee you clean air with their ever-developing technology, provides an important advantage in the aspects of maintenance according to classic oil smoke and energy costs. Filter components can be used washed, cleaned and used for decades without problem.

## Alp Electrostatic Filtered Air Cleaning Plants

Our electrostatic filters are easy to install, maintain and use. Installed easily on your current systems, our plants are designed to purify the air from all kinds of smoke, smell, soot and dust.

Cabins of Alp active electrostatic filtered plants are made of electrostatically painted DKP sheet metal. Joints have leak-proof gaskets. Plate surfaces have patent design in the name of Alperen Mühendislik.



Alp Electrostatic Filtered Air Cleaning Plants which can also be used in places where chimney installation is not possible, removes food smells, smoke, oil and soot effectively.

Designed according to your needs our, air cleaning plants are also produced with mobility feature. They highly decrease filter consumption cost with the filter systems.

Our active electrostatic filtered air cleaning plants are also used for filtering laser cut machine's dust, smoke and smell.

Our air cleaning units are also effective on filtering smoke coming out of industrial oil that is used in presses. Our plants serving this purpose, have filter structure and position specially designed for the industrial oils.

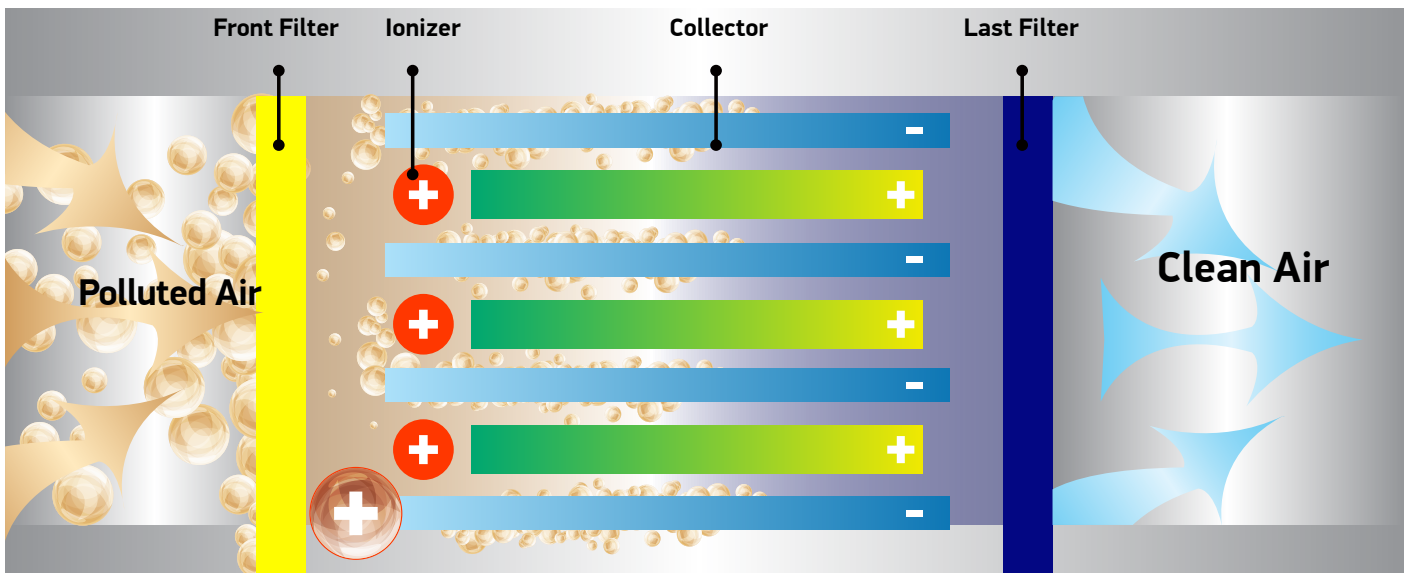


## Alp Electrostatic Filtered Air Cleaning Plants

### Alp Electrostatic Filters Working Policy:

Alp electrostatic filters work with the policy of capturing the charged particles in the air that with the force of attraction by the plates through high voltage area between the plates. They have high capacity of particle filtering. Drained by the fan, polluted air passes through the metal front filter. This filter captures coarse dust and oil particles. Then oil, smoke and soot that are in the air which comes to the filter working according to the ionization policy of particles,

are charged negatively with high voltage charge. Negatively charged polluted air is strongly stuck to the filter surface by the plates that collect oil, smoke and soot particles in the air, while passing through positively charged area which locates in the second level. There, 95% purified air is cleaned 99% by passing through active granule carbon filter and ozone filter. Afterwards, the air is completely sterilized by passing through the filter with high particle collecting capacity.



High voltage units that are used in our air cleaning plants are designed specially. These units work with 220 volts. They produce 20.000 – 100.000 high voltage with 100 watts and more energy. Thanks to their specially designed high voltage units, electrostatic filters makes high filtration.

Anode and cathode plates of our electrostatic filters are made out of aluminum or Cr-Ni stainless material. The chassis and the cabin are made of

electrostatically painted galvanization or Cr-Ni stainless material. All the joints are attached with weld in order to provide durability. They have untearable, impenetrable, warp resistant, rock solid and non-dispersible structure. You don't have to replace our electrostatic filters with new ones unless they are exposed to physical affect. When they get dirty, you can use them over and over again by washing them with oil remover and water.



## Alp Electrostatic Filtered Air Cleaning Plants

### The followings are used in Alp Electrostatic Air Cleaning Plants according to your needs;

- Air equalizing filter,
- Oil absorbing filter,
- Electrostatic filter,
- Active carbon filter,
- Ozone filter
- UVC filter.

Periodical maintenance of Alp active electrostatic filtered air cleaning plants is quite easy.

- You can use air equalizing filter for decades by cleaning oil absorbing front filter. In order to clean, take it out through pulling it by the slipway section, wash it, rinse it and put it in.
- You can use electrostatic filter and ozone filter for decades as well. In order to clean, take it out through pulling it by the slipway section, wash it, rinse it and put it in.
- If your active carbon filter gets dirty all you have to do is changing carbons.
- In order to clean UVC filters, wipe UV florescent with a moist cloth.



Alp air cleaning plants are also effective on all kinds of smoke, dust and smell occurred during the cutting process of laser machines.

Thanks to Alp air cleaning plants, you can remove dust, smoke and smell which occur during the processing of plexy, felt, cardboard, leather, wood, sponge and similar materials in the laser machines.

## Alp Electrostatic Filtered Air Cleaning Plants

### Installation and Implementation

Planning and manufacturing of Alp electrostatic filtered air cleaning plants include simplicity for installation. Our plants have been designed considering ease of use and maintenance. They are quite easy to install and maintain. During the installation, you don't have to join the modular pieces.

Your air cleaning device is delivered to you as a package. They can also be produced with wheels if you wish.

Connecting the air duct and electricity, you can run your device right away. In order to implement, all you have to do is to turn the start switch. According to your desire, installation and implementation can be done by our professional technical crew as well.



You can contact us to get information about the capacity, manufacturing details, installation, use and price of the air cleaning plants you need.

We will be pleased to help you with our professional crew.

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## ALP ELECTROSTATIC FILTER TECHNICAL SPECIFICATIONS

MODELS	ALP MX 2500	ALP MX 5000	ALP MX 7500	ALP MX 10000	ALP MX 15000	ALP MX 22500	ALP MX 30000
Air Flow	m3/h	2500	5000	7500	10000	15000	22500
Air Input	mm	650*730	1300*730	1950*730	1300*1460	1460*1950	1950*2190
Air Output	mm	650*730	1300*730	1950*730	1300*1460	1460*1950	1950*2190
Collector	Plate	Planary	Planary	Planary	Planary	Planary	Planary
Ionization	Plate	Geometric	Geometric	Geometric	Geometric	Geometric	Geometric
Pressure Loss	Pa	28 Pa	28 Pa	28 Pa	28 Pa	56 Pa	84 Pa
Working Flow	Volt	230/1/50	230/1/50 400/3/50	400/3/50	400/3/50	400/3/50	400/3/50
FAN	Electricity Consumption	0,65	0,75 -2,2	3- 4	5	7,5	10
	Input Voltage	230/1/50	230/1/50	230/1/50	230/1/50	230/1/50	230/1/50
HIGH VOLTAGE UNITE	Output Voltage	1*20.000 +10.000	2*20.000 +10.000	3*20.000 +10.000	4*20.000 +10.000	6*20.000 +10.000	9*20.000 +10.000
	Power	100	200	300	400	600	900
Electrostatic Filter	Piece	1	2	3	4	6	9
Carbon Filter	Piece	16	25	38	50	75	114
Drain Pan	Standard	Standard	Standard	Standard	Standard	Standard	Standard
Metal Filter	Standard	Standard	Standard	Standard	Standard	Standard	Standard
Air Equalizer	Standard	Standard	Standard	Standard	Standard	Standard	Standard
Flame Repellent Filter	Optional	Optional	Optional	Optional	Optional	Optional	Optional
Efficiency	>95%	>95%	>95%	>95%	>95%	>95%	>%95
Max. Working Heat	°C	5-70	5-70	5-70	5-70	5-70	5-70
Max. Moisture Rate	%	70	70	70	70	70	70
Sound Level	dBA	24	27	29	32	33	41
Size	mm	650* 730*450	1300*730*450	1950*730*450	1300*1460*450	1460*1950*450	1950*2190*450
Weight	Kg	43	86	129	172	258	387
Origin		Turkey	Turkey	Turkey	Turkey	Turkey	Turkey
Certificates		TSE-HYB, TM, SSB, CE, ISO9001:2008	TSE-HYB, TM, SSB, CE, ISO9001:2008	TSE-HYB, TM, SSB, CE, ISO9001:2008	TSE-HYB, TM, SSB, CE, ISO9001:2008	TSE-HYB, TM, SSB, CE, ISO9001:2008	TSE-HYB, TM, SSB, CE, ISO9001:2008

Technical values may vary during manufacturing process Our company keeps the variation right hidden

## Alp Electrostatic Filter

# Why should you **choose** Alp Electrostatic Filters?



Alp active electrostatic filters are also quite effective on filtering weld and oil steam occurred in industrial facilities along with restraining cooking smoke and smell.

Alp Electrostatic Filtered Air Cleaning Plants which can also be used in places where chimney installation is not possible, remove food smells, smoke, oil and soot effectively.



They have active electrostatic filtration feature. Alp electrostatic filters work with the policy of capturing the charged particles in the air with the force of attraction by the plates through high voltage area between the plates. They have high efficiency and the capacity of capturing 0,03-micron particle.



They have no foreign dependency. During the manufacturing, specially designed plates of your company have been used. There are no spare part problems. All the equipment is manufactured through our company's CNC machines with domestic capital by our manufacturing crew in Istanbul after they are designed by our professional engineers.

The panel and the panel cover are separated. You can reach the electrostatic filter without opening the panel cover.

High voltage units are also produced by our company. They have a special software developed by our company along with other innovations such as automatic voltage and automatic current control, filter pollution alert, displaying malfunction codes and working features, displaying voltage and current power, remote access, LCD screen, accordance with EMC – EMI instructions.



Our plants that work with 220-380 volt have the minimum energy consumption.

They don't cause electrical leakage. High dielectrically power resistant isolators have been used. The cabin and the electric circuit work separately.

There is no fire risk based on arc or spark. High voltage and electric current conveyed with specially designed switches with planary moves.

They are completely safe. There are safety switches to cut the power on the panel cover and the body connection.



Electrostatic filter cells are very durable. They are manufactured of 1,50 DKP material with 80-micron electrostatic paint.

They are impact-resistant. Corner fittings are made of Cr-Ni stainless material and joints are welded.

They don't cause corrosion or rustiness. All surfaces have been painted with electrostatic paint.

They have easy installation. They are manufactured as compatible modular pieces.

They are easy to clean. In order to clean the inside the cell there is drain output that can be connected to the drain pan and the installment.

The filters can be easily moved and placed. Inside the cell there are slipways. Moreover, lower slipways can be dismantled for cleaning.

The panel and the panel cover are separated. You can reach the electrostatic filter without opening the panel cover.

They don't have consumption cost. You can use Alp electrostatic filters for decades without replacing with a new one.

**Alp Electrostatic Filter Systems offer the exact solution to remove smoke and smell problems.**



**“for the comfort of your air”**