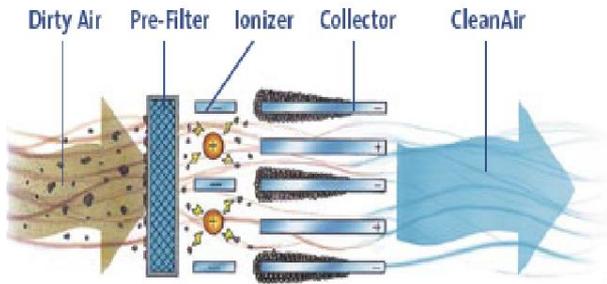


The function of YK series air filter



Electronic Air Cleaning

and go through the collector area which collect the pollution because the voltage of the collection is about 6000V between the plates. The efficiency could be up to 95%(>0.1 μ m).

The YK air filter separate the oil mist as four stages:

1. In the first stage, contaminated air is drawn into the aluminum mesh pre-filter and large drops of oil separate out
2. A washable oil-mist separator then removes up to 90%(>3 μ m) of the particle content of the mist
- 3/4. Then oil mist is ionized in the ionizer area which have high voltage about 12000V

Structure of YK600 electrostatic filters



The main parts of YK electrostatic filter as follow:

Pre-filters.



Heavy-duty, reusable, aluminum mesh, remove large particles not suitable for precipitation.

Oil mist separator



Stainless-mesh or coalescing type filters for use on applications with coolant-mist. Filters mechanically remove oil droplet coolant mist from air stream. This allows the ESP filter to operate for longer intervals between servicing. The separator filters are washable.

Ionizer



Ionizer are independent of collector for ease of maintenance. The frame, of rugged aluminum construction, supports tungsten steel ionizer wires. Each wire is spring mounted and easily replaced in the field. The springs, wire support bars and heavy ceramic insulators are located out of the air stream, behind a three-sided aluminum extrusion with an airfoil design, to further limit insulator contamination. An extremely dense ionizing field and integral bypass prevention baffles assure ionization of all particles entering the precipitator.

Collector



Parallel plate collection components are of aluminum construction. Air gap insulators which afford a longer path to ground are located completely out of the dirty airstream. This arrangement maintains nominal operating voltages longer, thus reducing the frequency of cleaning. The insulators, along with the cell's long plate design, assure maximum efficiency and retention of collected coolant-mist.

Blower



Motors are continuous-duty, totally enclosed, and fastened to adjustable motor mounts. The motor is equipped with a variable speed motor pulley allowing on-site blower speed adjustment

Parameters of YK600

Size	660*420*450mm
Weight	55kg
Power	0.15Kw
Blower capacity	600m ³ /h
First filter	Mesh filter, separate big particles like dust
Second filter	SP standard according to HG/T 21618-1998
Main filter	Ionizer and collector with HVU modules
Filter class	Equal to F9 according to EN779
Power supply	220V, 50Hz
Noise	60dB
Suction size	Φ150mm

