

Now you can have a
pollution free environment



We are an ISO 9001:2015 Company
Powertech Pollution Controls Pvt. Ltd.
Bangalore, India.

Company Profile

Powertech Pollution Controls Pvt Ltd was established in the year 1996 , for the design and manufacture of a wide range of air pollution control equipment , specifically Electrostatic Filters, for the capture and control of most types of fumes , mist , smoke and fine dust , generated on the shop floor , during the production process. Electrostatic filters are marketed under the brand name of Fumekiller® and Dustkiller® throughout India and abroad.

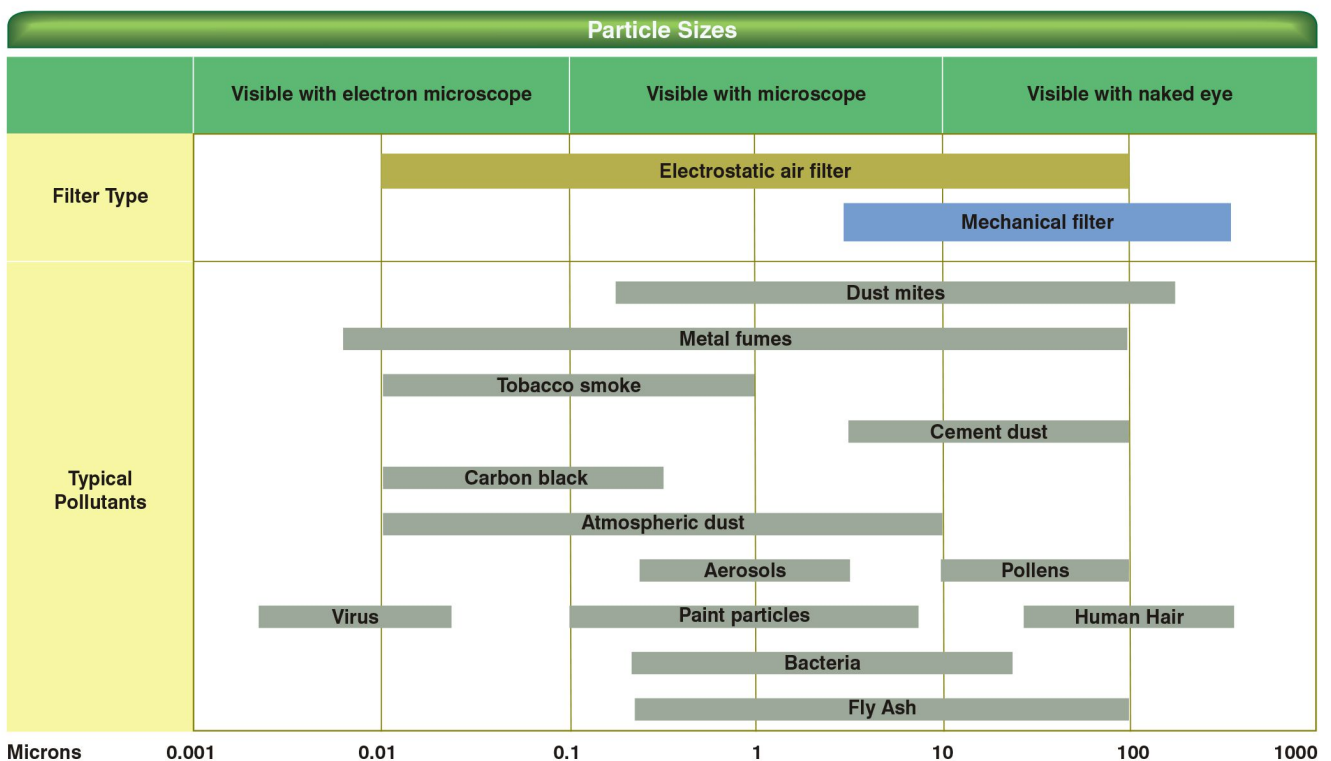
These systems are highly efficient (90% to 98%), use 40% less power, have very low maintenance, use permanent , many times re-usable filter media ,and can capture particulates down to 0.01 micron level (theoretical limit of 2-stage electrostatic filtration), and are ideal for the capture of fumes, smoke, oil/coolant mist and fine powders with the additional advantage of possible reuse of the collected oil/coolant or powder. These Filters may also be used for Clean Room applications of upto Class 1,00,000, and as efficient prefilters for higher class of Clean Rooms (where the life of expensive terminal HEPA filters can be extended by about 3 times).

A wide range of 2-stage Electrostatic filters are being used by many industry leaders, including Wipro Infrastructure Ltd, Toyota Kirloskar Motors , TVS Motor Co., Hindusthan Aeronautics Ltd, Bharat Electronics Ltd, Yuken India Ltd, Kennametal India Ltd, Maruti Suzuki India Ltd., Bhaba Atomic Research Centre, Automotive Axles Ltd , Vikram Sarabhai Space Centre , Delphi TVS Ltd , Reserve Bank of India , Titan Industries Ltd , Exide India Ltd , ABB Ltd , among many others.

These are typically used for the capture of fumes , smoke ,mist and fine dust from welding , CNC machining , quenching , hardening , heat treatment ,annealing , soldering , tinning , diesel gensets , curing ,boilers , furnaces , etc.

Our fume extraction systems have been approved by Agie Charmilles Technologies, Switzerland, for use with their Electro Discharge Machines in India , for the control of fumes. We also manufacture a range of unit dust collectors under the brand name of DustBag® which are used for the capture of most types of dry and mildly wet dust from cast iron machining , surface grinders , tool & cutter grinders, deburring , polishing , mixing , stripping , etc

The Managing Director - Mr. Philip Thomas, B.E. (Hons.) Electronics, B.E. (Hons.) Electrical, M.B.A has over a decade of Industrial experience in senior management positions . With his association with the Semiconductor industry, he initiated the design and manufacture of Electrostatic Filters using state-of-the-art technology. Our marketing team consists of engineers, who will undertake technical site study and suggest the optimal solution. The company has a team of dedicated representatives in place , throughout India, who will provide excellent application study and service backup, to solve most of your problems concerning airborne pollutants. Quality Control is an obsession through out the organisation and is evident in the list of our highly satisfied customers.



Fumekiller® - Electrostatic Filtration System is a high-efficiency two-stage electrostatic precipitator, designed, developed and manufactured for the capture & control of fumes, mist, smoke & fine dust.

Features : The filter modules are many times washable and re-usable during the life of the equipment. Maintenance and running costs are low when compared to conventional mechanical filters. We have incorporated safety features such as motor protection, limit switches and high voltage fault trip circuitry for reliable, safe and efficient functioning. These systems contribute to a safer, healthier work environment where toxic airborne pollutants are removed. We provide excellent factory support and product expertise based on years of industrial process emission control.



Applications : Fumekiller® can be used for the capture and control of fumes, smoke & fine dust, from Welding, EDM, Induction hardening, Ink spray, Heat treatment, Oil quenching, Wire drawing, Annealing, Soldering, Dip tinning, Wave soldering, Rubber curing, Die casting, Oil mist, Coolant mist, Diesel gensets, etc. Fumekiller® can also be used for capturing fine powder from tableting, capsuling and finishing operations.

How it Works : Particles in fumes, smoke or dust stream enter the electrostatic filter through the suction inlet (1) Particles carried by the air stream first enter the pre-filter (2) where large particles are removed. The finer particles then enter the electrostatic module (3) where, between a series of parallel aluminium plates, they receive a high +ve charge. These positively charged particles then pass through another series of aluminium plates which are negatively charged. Here, the particles are attracted to the oppositely charged aluminium plates and stick to them just like iron filings are attracted to a magnet, but, with one difference, the particles remain adhered to the plates even when the electrostatic filter is switched off. The air, now devoid of particles, escapes through the outlet (5) of the system as clean air. The post filter (4) evenly distributes the air flow through the electrostatic modules. Post filters when fitted with activated carbon granules can control odour & smell. Suction is provided with a centrifugal fan (6)

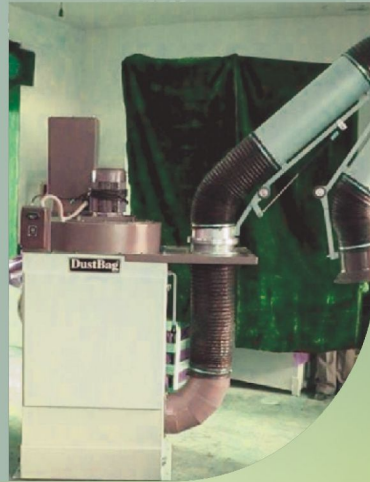
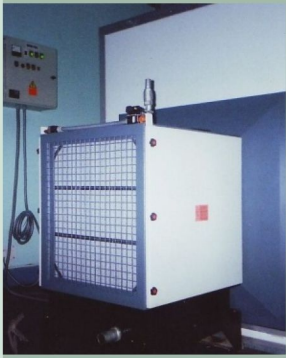
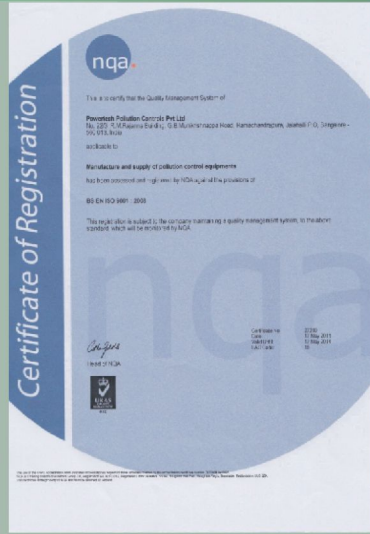
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Technical Specifications*

	FK 250	FK 500 IM	FK 1000 EM	FK 2000 EM	FK 3600 EM	FK 6000 EM
Suction capacity	250 Cu mtrs/hr	500 Cu mtrs/hr	1000 Cu mtrs/hr	2000 Cu mtrs/hr	3600 Cu mtrs/hr	6000 Cu mtrs/hr
Input voltage	230V ± 10%, 50Hz	230V ± 10%, 50Hz OR 415V ± 10%, 50Hz	230V ± 10%, 50Hz OR 415V ± 10%, 50Hz	415V ± 10%, 50Hz	415V ± 10%, 50Hz	415V ± 10%, 50Hz
Current drawn	0.5amps	0.65amps OR 0.5amps/ph	1.2amps OR 0.75amps/ph	1.5amps/ph	3amps/ph	5amps/ph
Filters	Pre/Post filters : wire/ nylon mesh Filter module : electrostatic	Pre/Post filters : wire/ nylon mesh Filter module : electrostatic	Pre/Post filters : wire/ nylon mesh Filter module : electrostatic	Pre/Post filters : wire/ nylon mesh Filter module : electrostatic	Pre/Post filters : wire/ nylon mesh Filter module : electrostatic	Pre/Post filters : wire/ nylon mesh Filter module : electrostatic
Filter efficiency	90% to 98% for particles	90% to 98% for particles	90% to 98% for particles	90% to 98% for particles	90% to 98% for particles	90% to 98% for particles
Power pack high voltage (nominal)	Ionisation : 4KV to 6KV DC Collection : 4KV to 6KV DC	Ionisation : 8KV to 10KV DC Collection : 4KV to 6KV DC	Ionisation : 8KV to 10KV DC Collection : 4KV to 6KV DC	Ionisation : 8KV to 10KV DC Collection : 4KV to 6KV DC	Ionisation : 8KV to 10KV DC Collection : 4KV to 6KV DC	Ionisation : 8KV to 10KV DC Collection : 4KV to 6KV DC
Suction fan/motor	Centrifugal, 120 watts	Centrifugal, 140 watts OR Centrifugal, 0.37KW	Centrifugal, 280 watts OR Centrifugal, 0.5KW	Centrifugal, 0.75KW OR Centrifugal, 1.1KW	Centrifugal, 2.2KW	Centrifugal, 3.7KW
Dimensions(mm), LxWxH without mntg. stand	650x400x600 (ht incl. trolley)00	Enclosure : 890x550x680 (ht incl. silencer)	Enclosure : 1250x550x1300 (ht incl. silencer)	Enclosure : 1380x575x1410 (ht incl. silencer)	Enclosure : 1380x840x1480 (ht incl. silencer)	Enclosure : 1580x1280x1480 (ht incl. silencer)
Mounting	Trolley included	Fixed stand, Trolley, Wall mount	Fixed stand, Trolley, Wall mount	Fixed stand, Wall mount	Fixed stand, Wall mount	Floor mount

* Due to continuous innovation, specifications are subject to change without notice.



A few of our esteemed customers:

- Agie Charmilles International S.A.
- Ashok Leyland Ltd.
- Automotive Axies Ltd.
- Bharat Electronics Ltd.
- Bhabha Atomic Research Center
- Brakes India Ltd.
- Delphi Automotive Systems Pvt. Ltd.
- Exide Industries Ltd.
- FCI OEN Connectors Ltd.
- Gabriel India Ltd.
- GH Induction India Pvt. Ltd.
- Greaves Cotton Ltd.
- Hindusthan Aeronautics Ltd.
- IFB Industries Ltd.
- Kennametal India Ltd.
- Lashmi Machine Works Ltd.
- Larsen & Toubro Ltd.
- Lucas TVS Ltd.
- Maruti Udyog Ltd.
- Reserve Bank of India
- Rane Engine Valves Ltd.
- Schneider Electric India Pvt. Ltd.
- Super Auto Forge Ltd.
- Suprajit Engineering Ltd.
- Titan Industries Ltd.
- Toyota Kirloskar Motors Ltd.
- Toyota Boshoku Automotive India (P) Ltd.
- TVS Motor Co. Ltd.
- Tyco Electronics Corporation India (P) Ltd.
- Wipro Infrastructure Ltd.
- among many others

Marketed by:



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