

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.

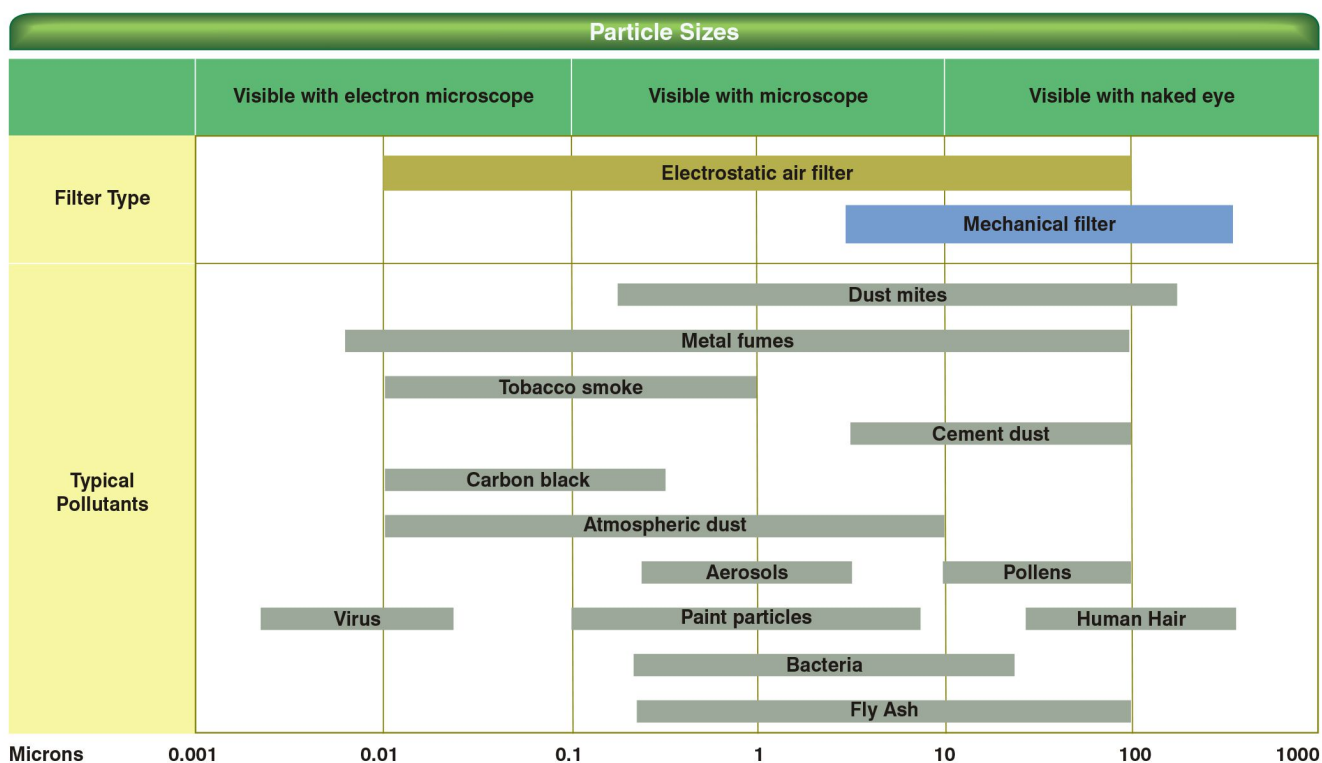
These systems are highly efficient (90% to 98%), use 40% less power, have very low maintenance, use permanent , many times re-usable filter media ,and can capture particulates down to 0.01 micron level (theoretical limit of 2-stage electrostatic filtration), and are ideal for the capture of fumes, smoke, 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.





Mistkiller™, is a trademarked, high-efficiency centrifugal mist collector, designed, developed and manufactured for the control of most types of mist, generated by the use of water-based coolants or water-based liquids.

**Features:** Mistkiller™ is an air pollution control equipment and works primarily on the principle of high speed centrifugal collection of liquids. Maintenance and running costs are lower than conventional mechanical filters. The 2-pole 3-phase induction motor with suction fan is protected by a Direct On Line (DOL) starter. By capturing mist from the source on the shop floor these units contribute to a safer and healthier work environment. Mistkiller™ units can be used continuously with little periodic maintenance. We provide excellent product support using expertise based on years of industrial emission control.



**Applications :** Mistkiller™ can be used effectively for the capture and control of mist generated by the use of water-based liquids, typically from CNC and non-CNC machining, cleaning chambers, spraying systems, etc. The mist condenses inside the Mistkiller™ and the condensed liquid may be drained out into the generating equipment for re-use. The Mistkiller™ can be machine-mounted (built-in stand) or mounted on a separate groutable stand. Interconnection between the generating source and the Mistkiller™ uses a flexible or rigid PVC duct with the pollutant being sucked through an exhaust port on top or the side of the generating equipment.



**How it works:** The built-in suction fan driven by an induction motor provides a powerful suction which sucks the mist into the Mistkiller™ through the exhaust port of the generating equipment and the connecting PVC duct. A prefilter (optional) consisting of a small chamber with aluminium flakes provides the initial gross filtration of the mist. The high speed rotation of the special suction fan generates a centrifugal force which throws the mist against the inner side of the Mistkiller™ enclosure. The mist condenses under this pressure and the collected liquid flows down through the PVC duct and returns to the generating equipment for re-use. The outlet of the Mistkiller™ is provided with foam / steel media used as a postfilter. The equipment requires just periodic washing of the mesh prefilter and the foam / steel postfilter with a high pressure water jet.

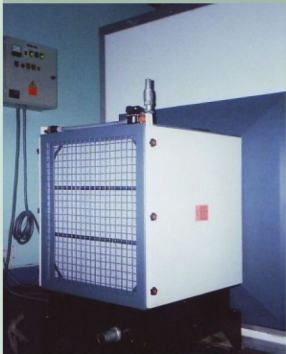
## Technical Specifications\*

	MK1000/1hp/1.5hp	MK2000/2hp/3hp	MK3000/3hp/5hp
Suction capacity	1000 Cu mtrs per hour(CMH)	2000 Cu mtrs per hour(CMH)	3000 Cu mtrs per hour(CMH)
Input Voltage	415V + /- 10% , 50Hz	415V + /- 10% , 50Hz	415V + /- 10% , 50Hz
Current drawn	Approx.1.5 amps / ph	Approx.3 amps / ph	Approx. 5 amps / ph
Filtration method	Primary filtration : centrifugal Secondary filtration : mesh prefilter (opt) & foam post filter	Primary filtration : centrifugal Secondary filtration : mesh prefilter(opt) & foam post filter	Primary filtration : centrifugal Secondary filtration : mesh prefilter(opt) & foam post filter
Filter efficiency	98% for water-based mist	98% for water-based mist	98% for water-based mist
Suction Fan/motor	Centrifugal , 0.75 / 1.1Kw , 3-phase 2-pole	Centrifugal , 1.5 / 2.2Kw,3-phase 2-pole	Centrifugal , 2.2 / 3.7Kw,3-phase 2-pole
Dimensions(mm)	425 dia, 950 ht incl built-in stand, motor	525 dia,1250 ht incl built-in stand, motor	750 dia,1450 ht incl built-in stand, motor
Weight	Approx.30kg	Approx.60kg	Approx.80kg
Mounting	CNC machine mounted (built-in stand) or groutable pipe stand	CNC Machine mounted (built-in stand) or groutable pipe stand	CNC Machine mounted (built-in stand) or groutable pipe stand

Note: The suction end of these units may be split using Y-splitters for two or more suction points

\* 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:



*We are an ISO 9001:2015 Company*

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