# Now you can have a pollution free environment





We are an ISO 9001:2008 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.

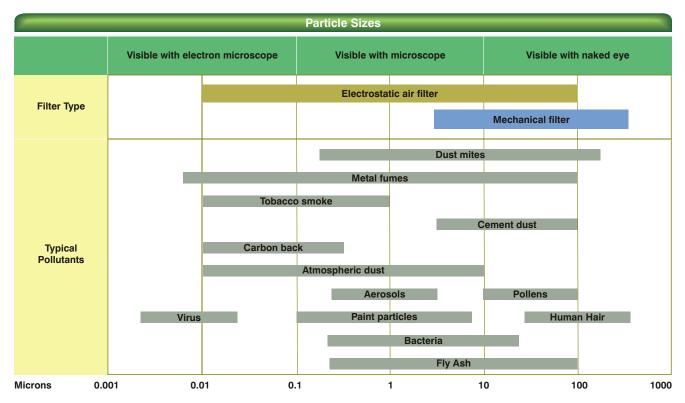
These systems are highly efficient (90% to 98%), use 40% less power, have very low maintenance, use permanent, many times re-usable filter media, and can capture particulates down to 0.01 micron level (theoretical limit of 2-stage electrostatic filtration), and are ideal for the capture of fumes, smoke,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



## Filter Modules

These Filter Modules are high-efficiency, two-stage electrostatic filters, designed, developed and manufactured by Powertech Pollution Controls Pvt. Ltd. Bangalore, India.

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 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:** These modular filters are used for custom-built applications & can be added module by module to suit various air flow rates. These modules are used as primary filters for class 100,0000 Clean Rooms & as prefilters for higher Class levels of Clean Rooms. When used as prefilters for higher class levels, they can increase the life of the terminal filters. The total pressure drop as compared to conventional prefilters is negligible. These filters can be used in a centralized system for removal of fumes, smoke, oil mist, coolant mist, dust and fine powders from many in - plant industrial processes which generate pollutants rendering the shop floor unhealthy.

How it Works: Each filter module can handle an air flow rate as specified. The required quantity of modules are placed in an MS painted enclosure. The air inlet side is placed in the air stream using a suitable adaptor ducting. The power pack feeding the electrostatic voltages to the Modules is separately mounted in a control panel near the MS enclosure with the electrical connections made through conduits. Prefilters and post filters are placed before and after the electrostatic filter module. Dust and file particulate are sucked into the filter module with the air stream. These first enter the prefilters which prevent large particles entering the modules. The fine particles then enter the modules where, between a series of parrallel aluminium plates, they receive a high positive charge. The positively charged particles then pass through another series of negatively charged aluminium plates. Here, the particles are attracted to the oppositely charged plate and stick to them like iron filings to a magnet, but with a difference - the particles remain adhered to the plates even when the electrostatic filter is powered off. The clean air, devoid of particles, escapes through the after filters. The postfilters help in distribution of the air flow through the electrostatic filter modules.

Technical Specifications*						
Filter Modules FF 4000		FF 3000	FF 2000	FF 500	FF 250	
Air Flow Capacity	4000-5000 Cu Mtrs./hour	3000-3500 Cu Mtrs./hour	2000-2500 Cu Mtrs./hour	500-550 Cu Mtrs./hour	250 Cu Mtrs./hour	
Input Voltage	230V±10%	230V±10%	230V±10%	230V±10%	230V±10%	
Module Material	Aluminium, Stainless Steel, Ceramic insulators	Aluminium, Stainless Steel Ceramic insulators				
Enclosure for Module	Mild Steel, Powder Coated	Mild Steel, Powder Coated				
Filters Efficiency	90% to 98% for airborne particles	90% to 98% for airborne particles				
Dimensions in mm of Modules (LxWxH)	685x310x715	550x310x715	410x310x715	377x195x290	235x195x290	
Power Pack High Voltage	8KV DC to 10KV DC & 4KV DC to 6KV DC	8KV DC to 10KV DC & 4KV DC to 6KV DC	8KV DC to 10KV DC & 4KV DC to 6KV DC	8KV DC to 10KV DC & 4KV DC to 6KV DC	4KV to 6KV DC	
Safety Features	Electronic trip for high voltage Limit switch trip for opening of door	Electronic trip for high voltage Limit switch trip for opening of door	Electronic trip for high voltage Limit switch trip for opening of door	Electronic trip for high voltage Limit switch trip for opening of door	NA	
Mounting	Floor mounted enclosure, angle stand	Floor mounted enclosure, angle stand				

 $<sup>\</sup>hbox{^*Due to continuous innovation, specifications are subject to change without notice.}\\$ 



Dust Bag®, dust collectors, are fitted with Non-woven polyster fabric capable of capturing dust particles as small as 10 microns and are designed, developed and manufactured by Powertech Pollution Controls Pvt. Ltd., Bangalore, India.

Features: This equipment can capture large quantities of dust from any generating source with high capture efficiency . The DustBag® uses non-woven polyester cloth as the filter media . We can incorporate additional safety features such as pressure differential switch, fire retardant as well as antistatic filter media, etc, as optional accessories. These systems contribute to a safer, healthier work environment where toxic airborne pollutants are removed. We provide excellent factory support





Applications: DustBag®, dust collectors can be used to capture dry or mildly wet particles from tool & cutter grinders, cast iron machining, graphite / carbon machining, surface grinders, drilling, milling, deburring, polishing, mixing etc.,

**How it works:** The DustBag<sup>®</sup> dust collector can be used in 2 ways. It can be used for pedestral grinders or similar applications where the grinding wheel can be enclosed upto 70% with a specially designed suction hood. It can also be used for surface grinders, CNC machining, or similar application where the wheel or machining tool cannot be enclosed. In this case a rectangular suction hood can be placed facing the stream of the dust particles near the grinding wheel edge or machining tool edge. During the dust generation process, dust particles are drawn into the DustBag® through the suction hood. The larger dust particles in the airstream, after entering the DustBag® fall to the bottom collection tank immediately. The finer dust particles reach the filter bag and are trapped there. The filter bags can be de-dusted manually or automatically (option). It is not necessary to remove the bags for cleaning.

Technical Specifications*							
Model	DB 425/0.75hp	DB 875/1.5hp	DB 1750/3hp	DB 3000/5hp	DB 4500/7.5hp		
Air Flow Capacity	425 Cu mtrs./hr	875 Cu mtrs./hr	1750 Cu mtrs./hr	3000 Cu mtrs./hr	4500 Cu mtrs./hr		
Input Voltage	415V±10%	415V±10%	415V±10%	415V±10%	415V±10%		
Power Consumption	0.5KW, 3phase	1.1KW, 3phase	2.2KW, 3phase	3.7KW, 3phase	5.5KW, 3phase		
Suction Fan	Centrifugal	Centrifugal	Centrifugal	Centrifugal	Centrifugal		
Filter Media	Polyster Non-woven fabric, 10 micron	Polyster Non-woven fabric, 10 micron					
Protection	DOL starter with overload relay	DOL starter with overload relay	DOL starter with overload relay	DOL starter with overload relay	DOL starter with overload relay		
De-dusting	Spring mounted bag with lever. When lever is shaken bag dedusts. Collected dust can be removed from collection bin at bottom	Spring mounted bag with lever. When lever is shaken bag dedusts. Collected dust can be removed from collection bin at bottom	Spring mounted bag with lever. When lever is shaken bag dedusts. Collected dust can be removed from collection bin at bottom	Spring mounted bag with lever. When lever is shaken bag dedusts. Collected dust can be removed from collection bin at bottom	Spring mounted bag with lever. When lever is shaken bag dedusts. Collected dust can be removed from collection bin at bottom		
Suction hood	Special suction hood to cover 70% of the grinding wheel if possible or with freely placed suction hood near dust generation spot.	Special suction hood to cover 70% of the grinding wheel if possible or with freely placed suction hood near dust generation spot.	Special suction hood to cover 70% of the grinding wheel if possible or with freely placed suction hood near dust generation spot.	Special suction hood to cover 70% of the grinding wheel if possible or with freely placed suction hood near dust generation spot.	Special suction hood to cover 70% of the grinding wheel if possible or with freely placed suction hood near dust generation spo		
Dimensions (LxWxH)	850x620x1300	880x670x1300	1100x780x1800	1250x870x1800	1250x950x2700		
Suction Pressure Static	8" WG	8" WG	8" WG	8" WG	8" WG		
*Tapered dust collection	<b>bin</b> fitted with trapdoor or rotary valve	for dust removal (other specifications	will remain the same as above)*	·			
Model	DB 425/0.75hp/TB	DB 875/1.5hp/TB	DB 1750/3hp/TB	DB 3000/5hp/TB	DB 4500/7.5hp/TB		
Demensions (LxWXH)	850x700x2350	850x700x2450	950x780x2650	1060x800x2900	1150x900x3700		

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## **DustBag**® Reverse-Pulsed-Jet(RPJ)

DustBag® Reverse-Pulsed-jet(RPJ), is a trademarked,high-efficiency dust collector with reverse-pulsed-jet cleaning system for the filter cartridges, designed, developed and manufactured for the control of most types of dust, both fine and coarse, generated during machining operations and processes on the shop floor

Features: DustBag® Reverse-Pulsed-jet(RPJ) is an air pollution control equipment, which can capture large quantities of dust, from any generating source, with high efficiency.The DustBag uses polyester non-woven Easyfit cartridges with filtration capability of 3 micron and larger with 99% efficiency. The Reverse-pulsed-jet cleans the cartridges continuously during operation without shutting down the DustBag operation. Optional accessories such as motorised rotary air lock, spark or without water with cooling, differential pressure switch, pressure release valve and dust collection trolley, may be provided.





**Applications:** The equipment can be used effectively for the capture and control of dust, in large quantities, from most dust generating operations. The DustBag does not require periodic shutdown for de-dusting of the filter cartridges. Specific applications are - capture of dust from the machining of graphite and carbon components, ceramic and talcum dust. It may also be used in dust-capture applications where the dust collector is to be working continuously with only short breaks, if at all. The collected dust may be re-used, if required. Since the filter cartridges are cleaned continuously by the pulsed air-jet, operation is hands-free, except for the removal of collected dust for disposal

How it Works: The built-in suction fan driven by an induction motor provides a powerful suction which sucks the dust into the DustBag® Reverse-Pulsed-jet(RPJ). The dust as small as 3 micron and larger is filtered by the polyester non-woven filter cartridges with 99% efficiency. The clean air is released through the suction fan outlet fitted with a silencer for noise reduction. The continuous cleaning system which de-dusts the filter cartridges, uses compressed air at 5bar to 8bar (to be provided by the customer at site) in pulsed jets into each filter cartridge through a set of solenoids fired by an electronic sequential timer. The pulsed air jets clean the cartridges continuously. The dust falls into the tapered collection bin and is removed through a rotary air lock into a trolley. The collected dust may be disposed as required.

Technical Specifications*					
	DB1750/RPJ/3hp	DB3000/RPJ/5hp	DB4500/RPJ/7.5hp		
Suction capacity	1750 Cu mtrs per hour(CMH)	3000 Cu mtrs per hour(CMH)	4500 Cu mtrs per hour(CMH)		
Input Voltage	415V + /- 10% , 50Hz	415V + /- 10% , 50Hz	415V + /- 10% , 50Hz		
Power / Current drawn	2.2Kw / Approx.3 amps / ph	3.7Kw / Approx.5 amps / ph	5.5Kw / Approx. 7.5 amps / ph		
Filtration method	Polyester non-woven cartridges with 3 micron	Polyester non-woven cartridges with 3 micron	Polyester non-woven cartridges with 3 micron		
	and larger filter capability, 3x2 matrix	and larger filter capability, 3 x 3 matrix	and larger filter capability, 4 x 3 matrix		
Filter efficiency	99% for dust 3 micron and larger	99% for dust 3 micron and larger	99% for dust 3 micron and larger		
Suction Fan / motor	Centrifugal ,2.2Kw , 3-phase 2-pole	Centrifugal, 3.7Kw, 3-phase 2-pole	Centrifugal, 5.5Kw, 3-phase 2-pole		
De-dusting of filter cartridges	Pulsed air jet at 5 to 8 bar	Pulsed air jet at 5 to 8 bar	Pulsed air jet at 5 to 8 bar		
	(compressed air customer scope)	(compressed air customer scope)	(compressed air customer scope)		
Additional components	Air valves , sequential timer,	Air valves , sequential timer,	Air valves , sequential timer,		
	compressed air filter / regulator	compressed air filter / regulator	compressed air filter / regulator		
Dimensions (mm) L x W x H	1050x1000x4000, incl stand, motor	1200x1100x4000, incl stand, motor	1550x1100x4000, incl stand, motor		
Weight	Approx. 350kg	Approx. 500kg	Approx. 750kg		

 $<sup>\</sup>hbox{^*\,Due\,to\,continuous\,innovation, specifications\,are\,subject\,to\,change\,without\,notice.}\\$ 



#### Mistkiller®

Mistkiller<sup>™</sup>, 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.

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 2pole 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	Primary filtration : centrifugal	Primary filtration : centrifugal				
	Secondary filtration : mesh prefilter (opt) &	Secondary filtration : mesh prefilter(opt) &	Secondary filtration : mesh prefilter(opt) &				
	foam post filter	foam post filter	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)	CNC Machine mounted (built-in stand)	CNC Machine mounted (built-in stand)				
	or groutable pipe stand	or groutable pipe stand	or groutable pipe stand				

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

<sup>\*</sup> Due to continuous innovation, specifications are subject to change with out notice.



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 tabletting, 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 prefilter (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)

	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 0R 415V±10%, 50Hz	230V±10%, 50Hz 0R 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							
Power pack high voltage (nominal)	Ionisation : 4KV to 6KV DC Collection : 4KV to 6KV DC	lonisation : 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		

<sup>\*</sup> Due to continuous innovation, specifications are subject to change without notice.



## Dustkiller®

Dustkiller® - Dust filtration system, is a high-efficiency, two-stage electrostatic precipitator, designed, developed and manufactured by Powertech Pollution Controls Pvt. Ltd. Bangalore, India.

Features: This equipment can achieve a high level of dust control in any closed area . Very fine floating particles can be captured before they can settle down on sensitive precision equipment . It provides high dust capture efficiency. All 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 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:** Dustkiller® can be used for controlling dust and fine particles in any closed room, preferably but not necessarily fitted with window / split type airconditioners - electronic labs, mechanical precision assembly areas, standards room, metrology labs, pharmaceuticals, bio-tech labs etc., or wherever dust control is a necessity. Dustkiller® can be quickly installed without major changes in the existing area.

How it Works: Dust and fine particulate matter are sucked in with the air stream by the centrifugal blower (1) through the inlet (2) on top. These enter the prefilter (3) where large particles are removed . The remaining fine particles then enter the electrostatic modules (4) 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, escape through the outlet (5) as clean air. The postfilter (6) help in even distribution of air flow through the electrostatic module and also controls odor & smell when filled with activated carbon granules.

Technical Specifications*					
Model	DK250	DK500	DK1000		
Air Flow Capacity	250Cu mtrs/hour	500Cu mtrs/hour	1000Cu mtrs/hour		
Input Voltage	230V±10%	230V±10%	230V±10%		
Current Drawn	0.25Amps	0.35Amps	0.7Amps		
Filters	Prefilters: Wire mesh Filter Modules: Electrostatic with aluminium plates & high voltage insulators. Postfilter: Activated carbon granules	Prefilters : Wire mesh Filter Modules : Electrostatic with aluminium plates & high voltage insulators. Postfilter : Activated carbon granules	Prefilters : Wire mesh Filter Modules : Electrostatic with aluminium plates & high voltage insulators. Postfilter : Activated carbon granules		
Filter Efficiency	90% to 98% for airborne particles	90% to 98% for airborne particles	90% to 98% for airborne particles		
Power Pack	4KV to 6KV DC	4KV to 6KV DC	8KV DC - 10KV DC 4KV DC - 6KV DC		
Suction Fan	Centrifugal blower, 60 watts, 1 phase	Centrifugal blower, 80 watts, 1 phase	Centrifugal blower, 160 watts, 1 phase		
Dimensions in mm (LxWxH)	Enclosure 400x320x660	Enclosure 500x360x850	Enclosure 900x360x850		
Mounting	Table top, Floor mounted, Wall mounted with fixtures	Floor mounted, Wall mounted with fixtures	Floor mounted, Wall mounted with fixtures		

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## Extractor Arn

The Extractor Arm is a device which allows the user to position a suction hood to capture fumes or dust close the generation spot with complete ease and flexibility.

Features: This highly useful accessory may be used with the Fumekiller® and DustBag® units . Maintenance and running costs are low as all components are built for continous, reliable, safe and efficient use. These systems contribute to a safer, healthier work environment where toxic airborne pollutants are removed. We provide excellent factory support and product





The Extractor Arm consists of 2 ducts made of aluminium or stainless steel, connected by PVC flexible hoses and mounted on interconnected support rods with friction-loaded pivots. A suction hood is attached to one end. The other end is attached to a rotating hollow cylinder. The suction hood, ducts, hose and rotating cylinder form a passage for the fumes or dust. The entire arm is self balanced and articulated at 3 points. This allows the suction hood to be positioned by hand at any point with a reach of 2 meters (or 4 meters) to & fro and 2 meters (or 4 meters) up & down with complete ease & flexibility with minimum effort. The Extractor Arm can be fitted to most of our Fumekiller® models & Dustbag® models. The arm can also be fitted to overhead ducting to provide suction points close to the floor level for the capture of fumes or dust from pollution generation spots.

How it works: The Extractor Arm consists of elements of aluminium ducts joined by flexible hose, articulated at 3 fulcrum points. One end of the arm is fitted with a swivel fixture. The arm is self balanced using friction pads and a telescopic gas tube. The arm can be swivelled by hand through about 270 degrees and can be positioned easily within a nominal distance specified for each arm. With the Extractor Arm, fitted to the Fumekiller® or DustBag® the suction hood of the arm is to be positioned close to the fumes/dust generation spot. The fumes/dust will be sucked through the suction hood and will reach the Fumekiller® or DustBag® for further filtration.

	Technical Specifications*							
Models	FEA-200-2	FEA-200-3	FEA-200-4	FEA-250-2	FEA-250-3	Mini Arm		
Air Flow Capacity	2000-2500 Cu mtrs/hr	2000-2500 Cu mtrs/hr	2000-2500 Cu mtrs/hr	3500-4000 Cu mtrs/hr	3500-4000 Cu mtrs/hr	250Cu mtrs/hr		
Total reach (Approx.)	2 mtrs up, down 2 mtrs to, fro	3 mtrs up, down 3 mtrs to, fro	4 mtrs up, down 4 mtrs to, fro	2 mtrs up, down 2 mtrs to, fro	3 mtrs up, down 3 mtrs to, fro	0.75 mtrs. 250 degree swivel		
Construction	Aluminium ducts 200Ø x2 nos.	Aluminium ducts 200Ø x2 nos.	Aluminium ducts 200Ø x2 nos.	Aluminium ducts 250Ø x2 nos.	Aluminium ducts 250Ø x2 nos.	Segmented PVC suctions press fitted together to form duct		
	Interconnecting flexible PVC Hose.	Interconnecting flexible PVC Hose.	Swivel approx: 250 degree					
	Telescopic gas tube damper	Telescopic gas tube damper	Telescopic gas tube damper	Telescopic gas tube damper	Telescopic gas tube damper	Held in position due to light weight of the duct sections and friction of joints		
	Friction pads with disc spring for all pivots	Friction pads with disc spring for all pivots	joine					
	MS suction hood with handle	MS suction hood with handle	MS suction hood with handle	MS suction hood with handle	MS suction hood with handle	PVC suction hood		

<sup>\*</sup> 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.

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