



IONVENT®

"An ultimate solution for the extraction and control of oil mist, fumes and dust in work environment. "

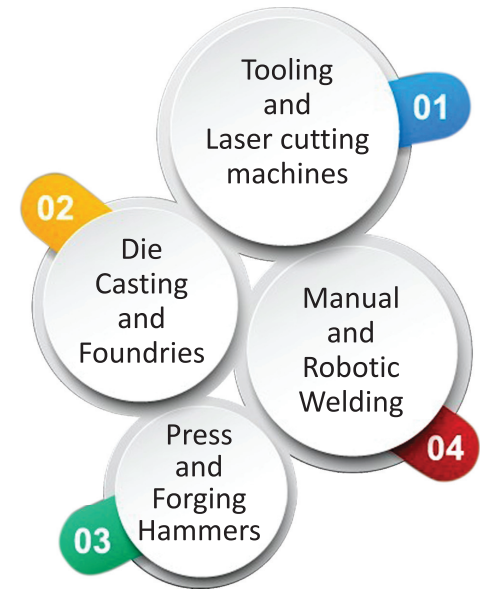
Shimi Research Center Pvt. Ltd. with its expertise in the field of pollution control equipment introduces the highly efficient, compact, indoor filtering system, IONVENT®, to suit various customer needs.

IONVENT® Principle

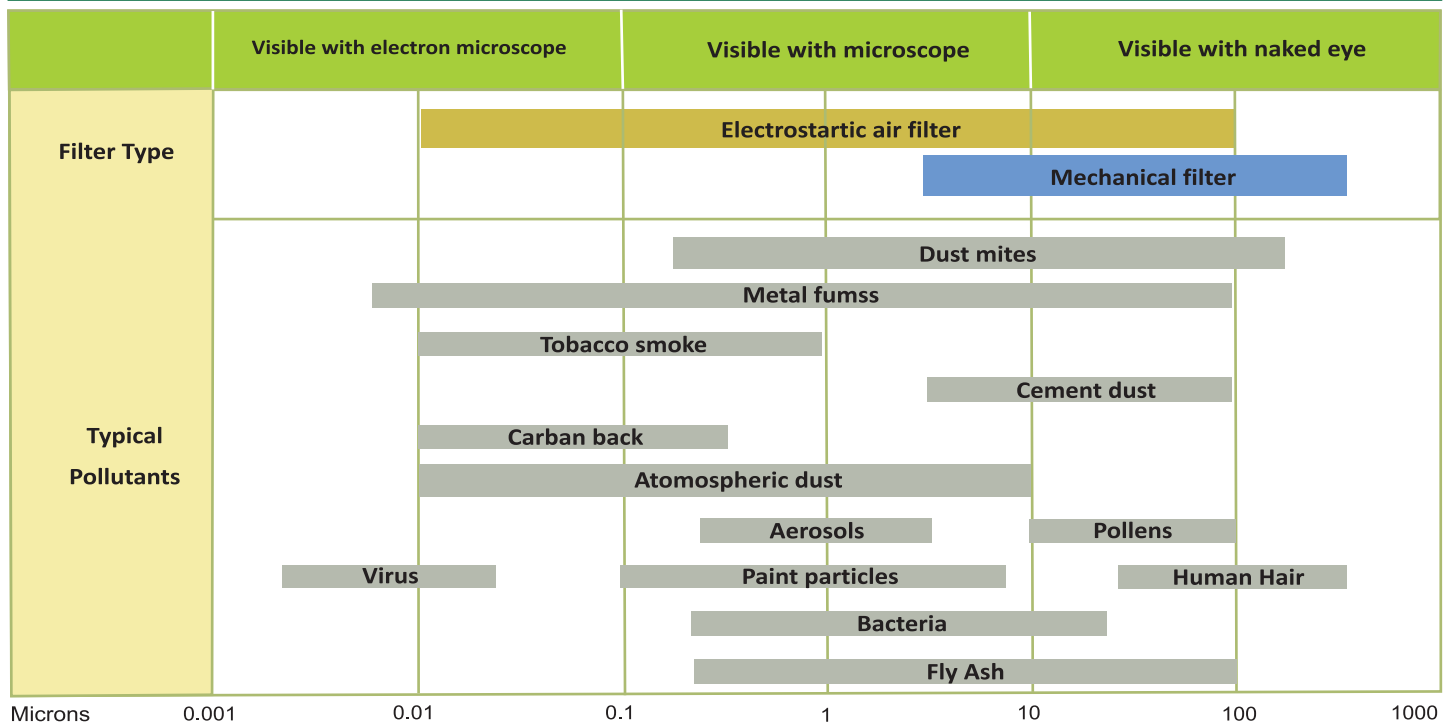
IONVENT® works on the basis of electrostatic precipitation technology where impurities are initially charged and then collected on the oppositely charged surface giving absolutely clean air discharge.

It can arrest a wide range of particle sizes as low as 0.01 micron to 100 microns

The typical applications are :



Particulate Sizes



The system can be combined with any extraction mode such as a flexible arm, hood, etc.

MAIN

FEATURES

- Cleaner environment with a “lesser spaced” system.
- Low operating and maintenance costs due to low wear and tear of components.
- Automatic cleaning system (optional), making the maintenance less troublesome.
- Variety of sizes.
- Inbuilt safety features.

IONVENT® are available in standard sizes apart from custom made designs:

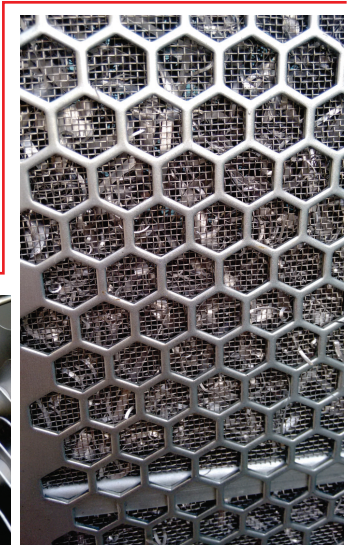
Technical Specifications*

	IV 250	IV 500	IV 1000	IV 2000	IV 3600	IV 6000
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	0.5 amps	0.65amps OR 0.5amps/ph	12amps 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)	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

* the specification of the equipment can be changed prior to notice

IONVENT® are also accompanied by a variety of Pre/Post stainless steel filter media.

IONVENT® is made for the highly efficient filtration process of contaminated air emissions such as mist or smoke (consisting of oil) or dusty aerosols. Even sticky and oily substances such as lubricants, grease, smog, oily smoke or mixtures of humid and dry particles can be separated from the contaminated air.



EXTRACTION MODES

(A) Extraction Hoods

For smoke aspiration from large machines such as die casting machines or forging presses where fumes are generated in large area, tailor made extraction hoods are available in stationary or retractable designs to cater the various needs of the customer.

The hoods collect the mixture of oil mist, dust and smoke from various sections of the machine and IONVENT® extract them for cleaning and purification.

(B) Flexible arms

In places where the emission spots are small and refer to a one or two points flexible arms can be used to remove the fumes from the work environment and treat them accordingly.



Extraction hood in operation



Open extraction hood (e. g. for die change)



FEATURES OF THE HPDC EXTRACTION HOODS

- No obstruction to the production:
IONVENT® equipment utilizes an extraction hood in fixed and retractable mode. The movement of retractable hood is controlled by geared motor which would allow the die to be changed or machine to be serviced without any obstruction.
- Highly effective smoke and fume extraction:
Because of the special extraction hood design and construction (inbuilt deflector) any continuous and intermittent concentrated smoke streams can be properly extracted.
- Flexibility of design:
The custom made hood designs make them ideal for installation on any type of machines and would ensure the performance as per set standard of the client.

Absence of Fume Extraction System results in :



Note Portable cleaning systems are also available on request.



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