

DUST EXHAUST SYSTEMS

Dust exhaust systems are installations by which dust a common phenomenon in many technological processes, is extracted from the production area by a pneumatic transport system, separated from the air, and then deposited or used as fuel or raw material for a new product. The desired degree of filtration to the tiniest particles can be achieved, thus meeting the maximum permissible emissions of filtered particles according to all criteria (environmental protection, human health, fire, and explosion safety protocol). The selection of the filter unit depends solely on the system dust load and the dust type.



The two basic types of dust exhaust systems are positive and negative pressure. In positive pressure systems, the material first enters the fan and then the filter. In the filter, the majority of the dust is separated by gravity, and a smaller part is on the filter surface. Vacuum systems are often used in cases of abrasive dust and where concentrations of explosive mixtures, gases, and fumes are possible. In the case of a vacuum filter, the fan is behind the filter, and only clean air passes through it.

All our systems fulfill ATEX directives.

ACCORDING ATEX DIRECTIVES



DOWNDRAFT TABLES

To capture dust, smoke, fumes and draw them away from the operator and material being worked on. They are usually used for sanding parts, before and after varnishing elements, finishing, and fettling.



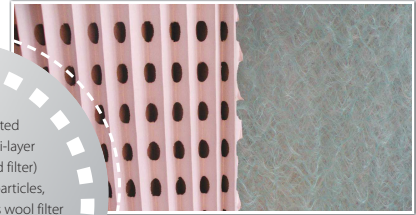
AUTOMATION IN INDUSTRY

We offer optimal solutions depending on the complexity of the system which can be accomplished by the simplest relay logic and digital electronic application, and it can be upgraded to more complex solutions in which PLCs, frequency inverters and HMIs.



FILTERS FOR AIR AND VARNISH

The first stage of filtration is a pleated inertial filter (or a multi-layer fire-resistant cardboard filter) that stops larger paint particles, while the second fiberglass wool filter (varnishing system) stops finer paint particles. The purified air is then extracted from the production area by a fan.



FILTER BAGS

Filter bags are manufactured according to your needs. By choosing the right filter material, the desired degree of filtration to the smallest particles can be achieved, thus meeting the standards of maximum allowable emission of filtered particles according to all criteria. Our many years of experience guarantee you expert help in choosing the optimal material and installation.



FLEXIBLE HOSE PIPES

Flexible hose pipes, due to their variety, cover a wide range of needs for all types of dust exhaust systems in all dimensions - they are used to connect the machine to the dust exhaust network.



PIPELINE ELEMENTS

Production of all elements of a galvanized and black steel sheet according to customer requests - circular pipes, air ducts, curves pipes, branch pipes, grills, guillotine shutters...

