

AIR FILTRATION

FILTER SYSTEMS FOR SMOKE, OIL MIST AND EMULSION MIST



- Improves air quality
- Helps to ensure a healthy, clean and safe working environment
- Reduces outdoor emissions of harmful substances



COOLANT
FILTRATION



AIR FILTRATION



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MANAGEMENT



BAR FEEDING

MOOR FILTERTECHNIEK IMPROVING YOUR BUSINESS



AIR FILTRATION

Clean air helps to ensure a clean working environment, which is essential for the health and safety of your staff. Moor Filtertechnik is a specialist in air filtration systems and a reliable partner for improving the air quality in the working environment. We supply a complete package of air extraction and filter systems for filtering e.g.:

- Emulsion mist
- Oil mist
- Plasticiser fumes
- Welding fumes
- Dust

DUCTED OR FREE HANGING

Systems can be ducted, unducted, free hanging and machine-mounted. The highest collection efficiency can be achieved when an air filtration system is directly mounted on a machine. A central air filtration system in combination with a ducted system requires maintenance and service in just one place. Source capture systems are preferred, but sometimes this is impractical or impossible and then a free hanging system is the solution. These systems consist of

several free hanging units positioned in the overhead workshop space to create a planned re-circulatory air pattern.



FILTRATION TECHNIQUES

Filtration techniques

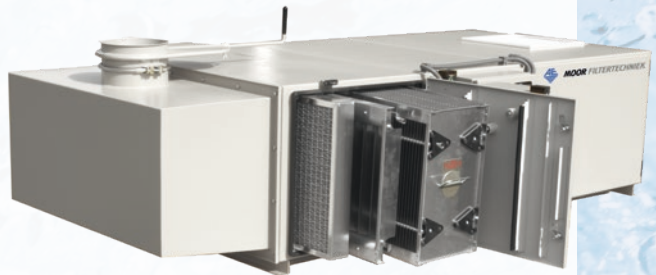
Moor Filtertechnik has an optimum filter solution for every situation, thanks to our range of filtration techniques, including electrostatic, mechanical and adsorption.

Electrostatic

The ESP (electrostatic precipitator) filter is the solution for machines where oil mist and smoke fumes are emitted. An ESP operates on the principle of charging contaminants electrostatically with an ionizer and then collecting the charged particles on oppositely charged plates.

Mechanical

In situations where emulsion mist is emitted, the advice is to use a mechanical filter system and to position it close to the machine. The efficiency of the mechanical filters is determined by the material used for the filter. Nowadays filters are rated according to EN ISO 16890-1 and HEPA. EN 16890 defines different classes of particulate matter according to the particle size range: ePM10, ePM 2,5 and ePM 1 (size range $0,3 \leq x \leq 1 \mu\text{m}$).



High Efficiency Particulate Air filters are available in several classes depending on efficiency, and are applied to filter particulates up to $0,3 \mu\text{m}$. The filter surface area and the number of filtration steps have a major impact on the service life.

Adsorption

Activated carbon is used to remove gases and odours by means of adsorption.

SOLUTIONS PER MEDIUM



EMULSION MIST (MECHANICAL)

High-pressure cooling is being used more and more, but it results in an increase in emulsion mist. The ideal solution for extracting and filtering emulsion mist from a closed machine tool is the Fox WS2 mechanical filter unit. As standard, the Fox WS2 has a pre-filter and main filter, while an optional HEPA filter is also available for an even higher filtration grade. The Fox

extraction unit can be fitted to the machine or installed on a vertical stand or mounting stand next to the machine. The unit will usually be electrically connected to the machine, so that it starts to operate when the machine is switched on.

OIL MIST, SMOKE AND PLASTICISER FUMES (ELECTROSTATIC)

For filtering oil mist, smoke and plasticiser fumes, we recommend the use of an ESP (electrostatic precipitator) filter. The ESP removes practically all unpleasant contaminants, wet or dry, that are present in the air.



WELDING FUMES, GRINDING AND SANDING DUST

Moor Filtertechniek supplies various fixed and mobile extraction units for welding fumes and de-dusting, available with and without movable extraction arms.

For example, we've supplied high-vacuum extraction units to superyacht builders, for filtering the dust created when sandblasting filler on the hull.



Moor Filtertechniek: the perfect partner for solutions in your production process. Our specialists will advise on your specific questions, without obligation. Our service technicians are also on call to help you 24/7.

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ISO and VCA** certified



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