

AIR FILTRATION

Filtration systems for smoke, oil and emulsion mist



Clean air contributes to a clean working environment, which is essential for the safety and health of your employees. Van der Ende Group specializes in air filtration systems and is your reliable partner for improving air quality in the working environment.

WE OFFER A COMPLETE RANGE OF AIR EXTRACTION AND FILTRATION SYSTEMS FOR FILTERING INCLUDING:

- Emulsion mist
- Oil mist
- Plasticizer fumes
- Welding fumes
- Dust extraction

Source, central or spatial extraction

Good source extraction in combination with room ventilation and/or climate control is now the rule rather than the exception. Source extraction has the advantage that the problem area is isolated and can be tuned very efficiently. Central extraction has the advantage that the removal of dirty filters and maintenance takes place in only one place. When source extraction is not possible, spatial extraction offers the solution.



Filtration techniques

Electrostatic

Van der Ende Group has an optimal filter solution for every situation because we use multiple filtering techniques such as electrostatic, mechanical and adsorption filtration techniques.

An electrostatic filter type ESP (formerly known as Smog-Hog) is the solution for machines that release oil mist and smoke. Substances that can absorb electrical charge are statically charged in the ionizer of the ESP electrostatic filter. A collection cell is placed directly behind the ionizer where the charged particles are precipitated.



Mechanical

In situations where emulsion mist is emitted, we recommend using mechanical extraction units, especially if the unit is close to the machine. The efficiency of mechanical filters is determined by the material of the filter. The size of the filter surface and the number of filter steps strongly determine the service life.

Adsorption

Activated carbon is used to remove gases and odors through the action of adsorption.

SOLUTIONS PER MEDIUM



Emulsion mist (mechanical)

Nowadays, high-pressure cooling is increasingly used, which causes an increase in emulsion mist. For the extraction and filtration of emulsion mist from an enclosed processing machine, the mechanical filter unit type Fox WS2 is the solution. As standard, the Fox WS2 is equipped with a front and main filter. Optionally, the Fox can be equipped with a HEPA filter to achieve an even higher degree of filtration. The Fox extraction unit can be mounted on the machine, on a support column or on a console at the machine. The unit will usually be electrically connected to the machine, so it will always function when the machine is switched on.



Oil mist, smoke and plasticizer fumes (electrostatic)

For filtering oil mist, smoke and plasticizer fumes in the metal industry, we recommend using an electrostatic filter type ESP. The ESP removes practically all unpleasant contaminants present in the air, wet or dry.



Welding fumes, grinding and sanding dusts

Van der Ende Group supplies various fixed and mobile extraction systems for welding fumes and dedusting, available with and without movable extraction arms.

For example, we have supplied high vacuum exhaust systems to the superyacht building industry for filtering dust released during sanding of plastered hulls.

Improving Your Business

Van der Ende Group is an innovator, manufacturer and supplier of technical solutions in the area of climate, water, fluid technology and filtration technology. We produce and supply a wide range of pumps, water treatment systems, frequency converters, accessories, fans and industrial filter systems. We provide specialist advice and technical services for horticulture, construction, industry and the public and semi-public sector. Our many innovative and often patented products are sold worldwide. **Check our website for more product information.**



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