



AerSMASH
pure improvement.



AerSMASH boxes

The AerSMASH boxes have been designed to purify large quantities of contaminated air of odours, pollen, bacteria, allergens, VOCs and other contaminants.

The AerSMASH boxes can be integrated in or attached to existing air treatment systems. It is also possible to install the AerSMASH box as stand-alone.

Capacity

The AerSMASH boxes are available in a standard range from 200 to 26,000 m³/h. Larger quantities are possible upon request.

Pre-filter

Each AerSMASH box is fitted with a pre-filter (double glass fibre filter F7) as standard in order to capture any major contaminations before they pass through the filters; thereby making the best possible use of AerSMASH technology.



Casing

The AerSMASH box is constructed from a metal casing made from one millimetre galvanised metal (on both the outside and inside) as standard. The box therefore has excellent resistance to external weather conditions.

The entire box has double walls with a high-quality PU insulation panel. Box types 2 to 6 are built single sided, because they are often installed in air-conditioned rooms.

Each model is fitted with a lifting brace as standard to aid with installation.

The casing can be finished in stainless steel 316 upon request.

Electrical system

The electronics are fully incorporated and the box is delivered 'plug-ready'. In all models, the circuit-breaker is installed on the outside as standard.

All AerSMASH boxes have been fitted with a high-quality motor and tested for the correct power in combination with the filters, in order to ensure optimal functioning.

Maintenance and use

The AerSMASH boxes are relatively low maintenance. The glass fibre pre-filters must be replaced from time to time. This is easy to do by removing the first filter before moving the second filter forwards or installing a new filter. The new filter is then installed as a second filter. The pre-filters must be replaced in good time to guarantee effective pre-filtration.

The filters are also easy to replace. When used professionally (for 6 to 12 hours per day), filters have a technical life of 1 to 3 years. The life of the filter partly depends on the contamination level and other environmental factors.

Depending on the situation, it is determined which AerSMASH box is most suitable, as well as the way in which it is used. Optimal coordination helps to create the most added value. The filters and glass fibre pre-filters can be ordered from AerSMASH.

Inspections

The AerSMASH boxes are fitted with filters, which are fully TÜV Rheinland accredited, tested for consumer safety and EMC and come with an Appliance III inspection. Moisture is therefore not a problem for the technology and its operation.

The technology of AerSMASH Air filters

The filter has been specially developed to purify contaminated air and can be installed easily and quickly in AerSMASH boxes. When switching on the fan, the unit is switched to active. The pre-filter captures the first contamination, after which the air is fed through the unit.

Depending on the air flow and amount of contaminated air (including odours, pollen, bacteria, moisture, viruses and fungi), the right amount of ionisation plasma (O₃) is injected. This ionised plasma (O₃) extracts O₂ molecules from the contaminated air, thereby decomposing them; only CO₂ and water vapour (H) are left behind.

During this process, the glass fibre filter is activated by the electrostatic filter. During this collaborative process, all dust particles are attracted and then eliminated. The minimal contamination this releases is then decomposed by ionised plasma (O₃). Lastly, all air is filtered once again through the carbon filter.


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