

Emissions extraction

Floor frame

Functional description

Emission extraction as a personal protection system

Our molecular filter system eliminates a wide range of hazardous substances such as: Solvents, acid gases, ozone and others.

Do not hesitate to contact us if you have any questions about the possibilities of our applications. Our systems come with high quality broadband Activated carbon for use.

Technical description

The filter housing is made of stainless steel 1.4301 (On request also powder-coated aluminum in the desired color available)

The pre-filter, the activated carbon filter, is located in the filter housing as well as the particulate filter and an extremely low-noise EC blower. The EC blower also maintains the required volume flow increasing filter contamination by a permanent differential pressure monitoring, constant.

Prefilter

The ambient air is pre-filtered easily designed for large volume flows and long filter service life.

HEPA filter H11

The particles are separated using a high-performance particle filter

Activated carbon types and suitability

- C1 against smells from offices, laboratories, hospitals, halls, kitchens. Against solvent vapors, ozone, exhaust gas odors and general hydrocarbon compounds
- C3 in general against acid gases, mercaptans and thiols, against odors from sewage treatment plants, putrefaction
- C5 in general against alkaline gases such as ammonia and amines, against odors from animal husbandry and slaughterhouses.
- C9 suitable for air filtration in high humidity
- CX for specific applications (formaldehyde vapors, mercury vapors, etc.)

Product characteristics

- System with interchangeable cylinders
- Cylinder filled with granular activated carbon
- Easy to replace thanks to the bayonet lock
- Due to corrosion, galvanized cylinders should only be used for non-impregnated activated carbon (e.g. C1)
- Volume flow / cylinder = 100 m³ / h
- Pressure loss at 100m³ / h = 150 PA

Application

- Odor filtration for supply and exhaust air in the comfort and technology area
- Pre-filtration necessary to protect the activated carbon
- Ideal operating temperature 40 ° C
- Ideal relative humidity <70%
- For optimal performance of the activated carbon, a contact time of 0.1 - 0.2 s should be aimed for. This corresponds to around 40% of the declared nominal volume flow
- Ask us about the adsorption of special gases

