

Aufero

Innovative air purification system



The majority of air pollution is the result of human activities. Industrial processes and traffic movement emit large quantities of particulate matter (PM10, PM2.5, and PM0.1), heavy metals and toxic waste gasses such as sulfur oxides (SOx), nitrogen oxides (NOx), volatile organic compounds (VOCs) and ozone (O3). These airborne pollutants significantly add to the overall air pollution level and pose a major burden for public health and the environment.

ENS Clean Air

ENS enables the removal of airborne pollutants from large volumes of air at a high velocity, providing for air purification applications in infrastructure projects, public spaces and industrial applications. ENS' proprietary positive ionization technology has a low energy consumption and has no harmful secondary emissions.

Filterless particulate matter removal

The Aufero is a filter-less air purification system capable of removing particulate matter from 10 nanometers to 30 micrometers and is not affected by mist (conventional HEPA filter-systems clog when wet).

Airborne pollutants moving through the Aufero system are transformed into coarse dust and are captured on a collector plate inside the system. Airborne pollutants are thus removed and immobilized, thereby eliminating the possibility for them to be inhaled. The collector plate can be cleaned easily and safely. No special tools, protective wear or chemicals are required.

The modular design facilitates universal coupling to ventilation ducts of HVAC systems and other applications. The Aufero is available as a stand-alone system equipped with a fan for forced ventilation.



Technical data

Dimensions	Length Width Height	2,800 mm 720 mm 1,280 mm
Weight		300 kg
Maximum flow		7,500 m³/h ± 10%
Climatic application range	Air temperature Relative humidity	-25 °C to +200 °C < 100%
Power connection		230 V 50 Hz
Power consumption		< 360 W
Particulate matter removal range		10 nm to 30 µm
Particulate matter removal efficiency		< 99%
Pressure loss		10 Pa
Sound level of fan		63 dB(A) at 2 m distance

Benefits

- + Proven technology eliminates up to 75% of the airborne particulate matter from an active air flow in a single cycle.
- + The Aufero can be successfully implemented in a wide variety of settings and under various conditions.
- + Performance remains constant, irrespective of the build-up of captured material on the collector plate.
- + Captured particles remain fixed to the collector plate as an aggregated grit, independent of gravity and the passing air stream.



Minimal energy consumption



No filters



Immune to weather conditions



Easy to clean



All air volumes



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