



EN



STATIC AIR

FINE DUST FREE





Pamares

Particulate Matter Reduction System

www.staticair.com

Get In Touch

 Call: [0845 6880112](tel:08456880112)
 Email: info@adremit.co.uk

Our Address

Puravent, Adremit Limited, Unit 5a, Commercial Yard,
Settle, North Yorkshire, BD24 9RH





StaticAir

Fine dust: a matter that is elusive to many, can only be measured by some and can be captured by very little. StaticAir offers a revolutionary solution.

StaticAir captures fine dust based on a number of unique patents. In recent years, multiple products have been developed for both indoor and outdoor environment. StaticAir's fine dust reduction systems are easy to use and have a very low energy requirement.

Dozens of field tests have been executed while developing the products. This has given a lot of insight in capturing fine dust and the configuration of our fine dust reduction systems.

StaticAir is a part of Mark Climate Technology. Mark is specialized in indoor climate control and has more than 70 years of international experience.

It is StaticAir's mission to create a fine dust free living- and working environment.



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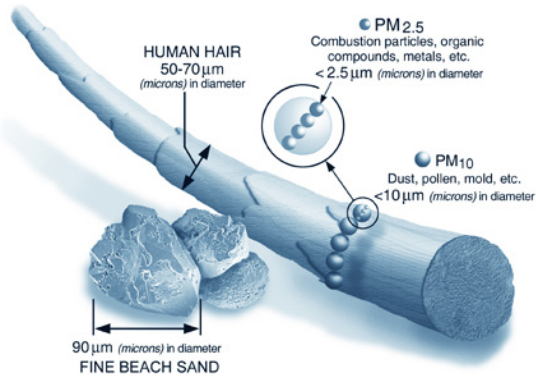
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Health impacts of fine dust

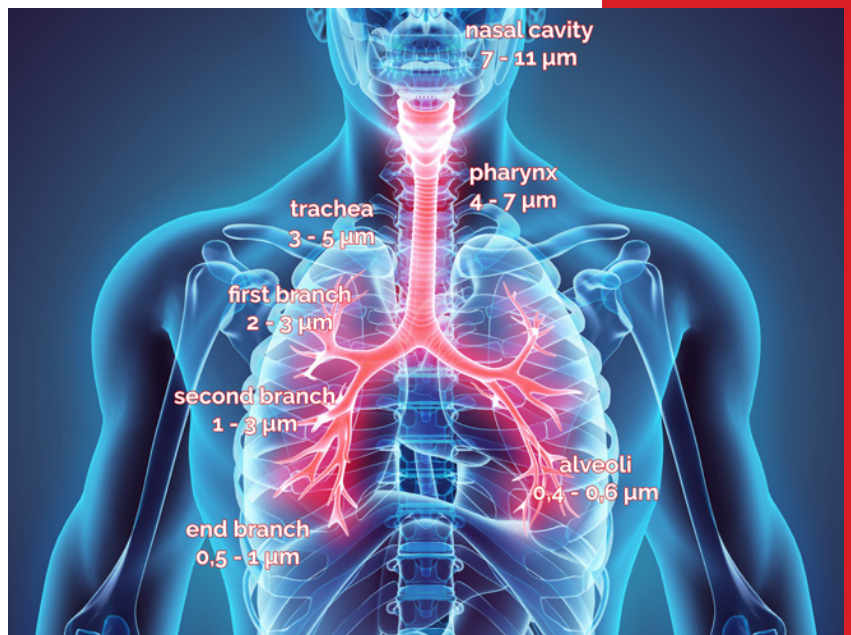
Fine dust is a form of air pollution. Dust particles smaller than 10 micrometers (0.01 mm) are classified as fine dust. These fine dust particles can differ in size, origin and chemical composition. Based on the size, fine dust is referred to as PM10, PM2.5, or PM0.1 (ultra-fine dust). The composition of fine dust can be very variable. Common components of fine dust include metals, carbon (soot), salt and nitrate.



Research data shows that fine dust is harmful for your health. The average life expectancy due to short-term and long-term exposure to fine dust is decreasing by one year based on the situation in the Netherlands, but up to 16 months in the rest of Europe. Because of the harmful effects on people's health, the European Union and the World Health Organization have set limit values for fine dust (PM10 and PM2.5). These limit values

are exceeded in many places. For example, along busy roads, industrial areas and cattle farms. Also in the indoor environment, in many workshops a dangerous high concentration of fine dust arises through work processes. Fine dust does not stay at the source, it can travel far distances up to 40km.

Small floating particles in the air enter the lungs by inhalation. Particles larger than 10 micrometers are still filtered through the nose and excreted via the mucous membrane. But smaller fine dust particles penetrate deep into the lungs and cause harm. Ultra-fine dust particles even penetrate into the bloodstream. These small particles can cause inflammatory reactions and breathing difficulties. Fine dust also increases the risk of heart attacks and lung cancer. Furthermore neurological effects of fine dust have been found, which can influence the cardiac muscle functions negatively. Exposure to fine dust worsens the symptoms of people with respiratory diseases and cardiovascular diseases. Besides causing premature deaths, fine dust is also a cause in many cases of illness. Exposure to fine dust causes an increase in hospital admissions, complaints and absenteeism at work. Chronic exposure to fine dust increases the chance of all mentioned negative effects.



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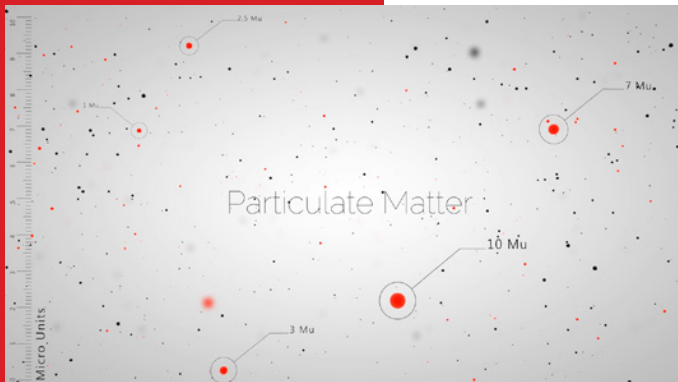
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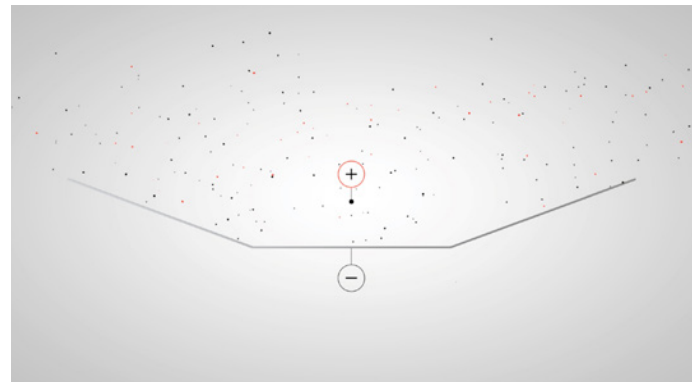
Operation of the Pamares

The Pamares reduces fine dust in the direct environment. The Pamares contains corona wires to which a positive high voltage is applied. It operates on a direct current with a low amperage. The technology of StaticAir is tested safe for humans and animals. The fine dust in the environment of the Pamares is ionized by the charge of the corona wires and is attracted to a grounded frame in the Pamares. Due to the corona operation, an electric wind is created from the corona wire to the grounded frame. This electric wind ensures that the fine dust is attracted and deposited on the grounded frame, without the use of ventilation.

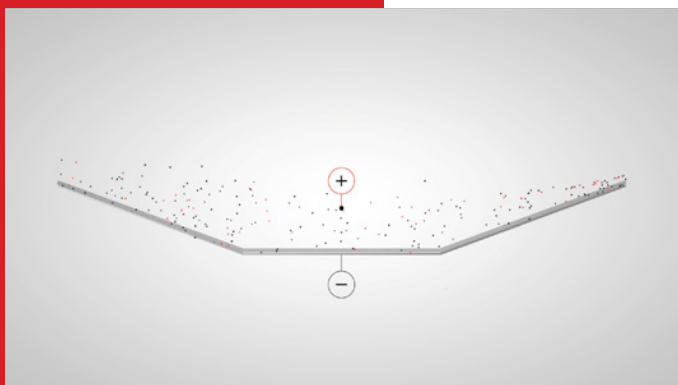
The Pamares can reduce up to 30% fine dust in the outdoor environment and up to 50% in the inside environment with only 18 watts. The power supply takes place via the normal electricity grid. The Pamares is unique in capturing fine dust in an economical and sustainable way.



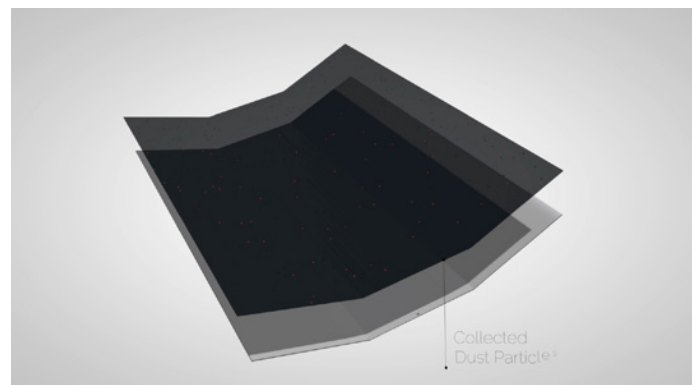
1. Polluted outside air



2. Positively charged wire and grounding plate



3. System on



4. Gathered dust

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Features PAMARES

- Up to 50% fine dust reduction in the indoor environment *, up to 30% in the outside environment *
- Reduces all types of fine dust, such as: exhaust fumes, building material, metallic substance, etc
- Reduces all sizes of (ultra-) fine dust $PM_{0.1}$ to PM_{10}
- Easy control with LED indication
- Contributes to a healthy living- and working environment
- Energy-efficient
- Quiet
- Safe for humans and animals
- No moving parts
- Easy to install
- Easy to operate
- Modular construction
- Low maintenance
- Smart City ready

* depending on environmental conditions

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Specifications

Structure

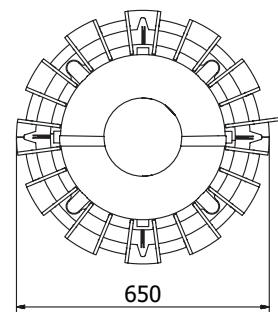
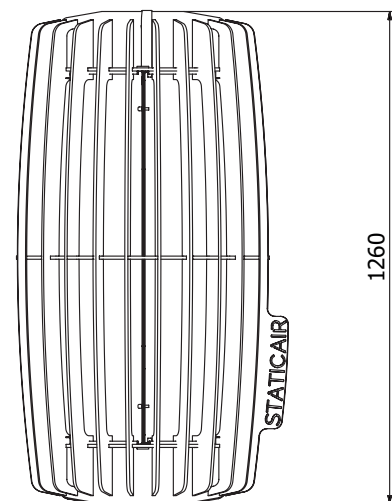
- Configuration: cylinder
- Height: 1260 mm
- Diameter: 650 mm
- Weight: 35 kg

Specifications

- Low power consumption: 18 watts
- PVC casing
- Power supply: 230V / 110V
- IP rating: IP 65
- Pole mounting on a mast with a diameter of 80 - 200 mm.

Optional

- Link with management system:
 - via I / O contacts
 - via LoRa (wireless)
- Accumulator back-up for energy supply in case of non-continuous power.
- Customized color possible
- Customer-specific wishes possible



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Application areas

StaticAir's fine dust reduction systems have been extensively tested in various environments and conditions. The operation has been validated by independent third parties. In collaboration with the Ministry of Infrastructure and the Environment, TNO, Delft University of Technology, municipality and province, significant fine dust reduction has been demonstrated in the tunnel environment, the outdoor environment and the laboratory. Furthermore, StaticAir has years of experience in fine dust reduction activities in various environments in Europe and worldwide. StaticAir's fine dust reduction systems are suitable for applications in, among others:

Outdoor environment:

- Street Canyon environment
- Traffic control systems
- Parks and recreational areas
- Tunnels

Indoor environment:

- Parking garage
- Construction hall
- Livestock farming
- Boulderhall / Climbing hall
- Ceramic industry
- Concrete industry
- Glass industry
- Recycling industry
- Metal industry

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