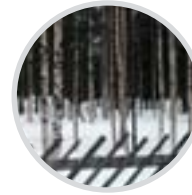




# Enjoy breathing



**Next generation air purification  
technology from Finland**



## Why does indoor air need to be purified?

We spend 90% of our time indoors at home, at work, at school, etc. We inhale between 15,000 and 40,000 litres of air in the space of 24 hours. Good indoor air quality is vital to our health.

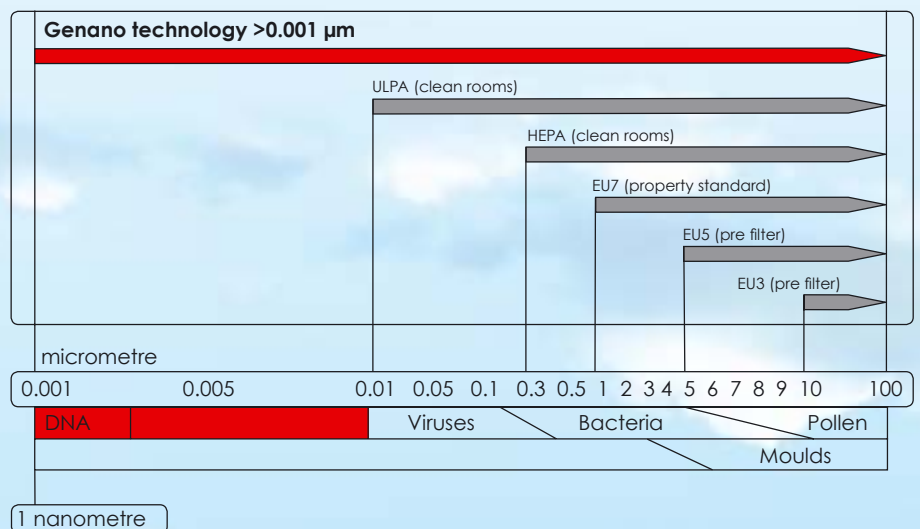
Diesel particles, carbon monoxide, fine road dust and other impurities penetrate our indoor spaces through fibre filters, even when they conform to building standards. Moreover, indoor air contains harmful fine particles (viruses, bacteria, moulds) and gases (VOC gases) originating from the building itself and from people, machinery, furniture and production processes.

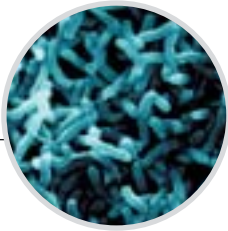
Traditional air purification methods are not enough to get rid of the harmful fine particles and gases that live in our indoor air. Most commonly used fibre filters (EU7) are powerless against ultra-fine particles.

The Finnish company Genano has developed a unique air purification method that removes even nano-sized particles from the air. Genano air purifiers are ultra-efficient and protect both people and lifeless objects from impurities found in indoor air.



## Genano air purification technology versus competing methods





Impurities found in indoor air can cause a number of symptoms and conditions, such as irritation of the eyes and skin, tiredness, headache, fever, bronchitis and long-term illnesses like asthma, for example.

Poor indoor air quality also decreases comfort and productivity.



## Improve productivity with better indoor air

Poor indoor air quality can cost companies considerable amounts of money. Costs derived directly from respiratory illnesses resulting from the microbes emitted by the building alone are enormous.

By improving the quality of indoor air, sick leaves can be decreased and comfort at work increased. Companies can take a step towards better indoor air at the cost of only one day's absence from work.

## How can you improve indoor air quality in your company?

Genano's next generation air purification technology

- offers the best air purification performance on the market
- efficiently clears impurities as small as 0.001 micrometres from indoor air
- removes viruses, bacteria, moulds and other harmful microbes from indoor air
- clears harmful gases from indoor air
- consumes little energy
- is easy to maintain
- helps to promote good health, comfort and productivity in the workplace.

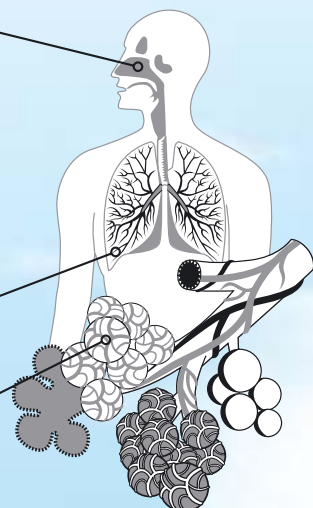
## Examples of health hazards caused by particulate matter:

> 10- $\mu\text{m}$  particles get caught in the nose and throat.

< 5- $\mu\text{m}$  particles can enter the respiratory tract and upper parts of the lungs.

< 2.5- $\mu\text{m}$  particles penetrate deep into the respiratory organs.

< 1- $\mu\text{m}$  particles can even penetrate the bloodstream.



## Mobile units from Genano – **Genano 200, 310 and 500**

Genano mobile air purifiers are easy to install, efficiently clearing the air of aerosols and particulate matter such as viruses, bacteria, moulds and VOC gases in indoor spaces of all sizes.



Genano 200



Genano 310



Genano 500

### Genano air purifiers from Finland for:

- Dental laboratories
- Dentists
- Laboratories
- Hospitals
- Isolation rooms
- Reception areas
- Pharmacies
- Nursery schools
- Schools
- Offices
- Archives
- Hair salons
- Government departments
- Treatment rooms
- Gyms and sports facilities
- Homes

### Technical Data

#### Genano 200

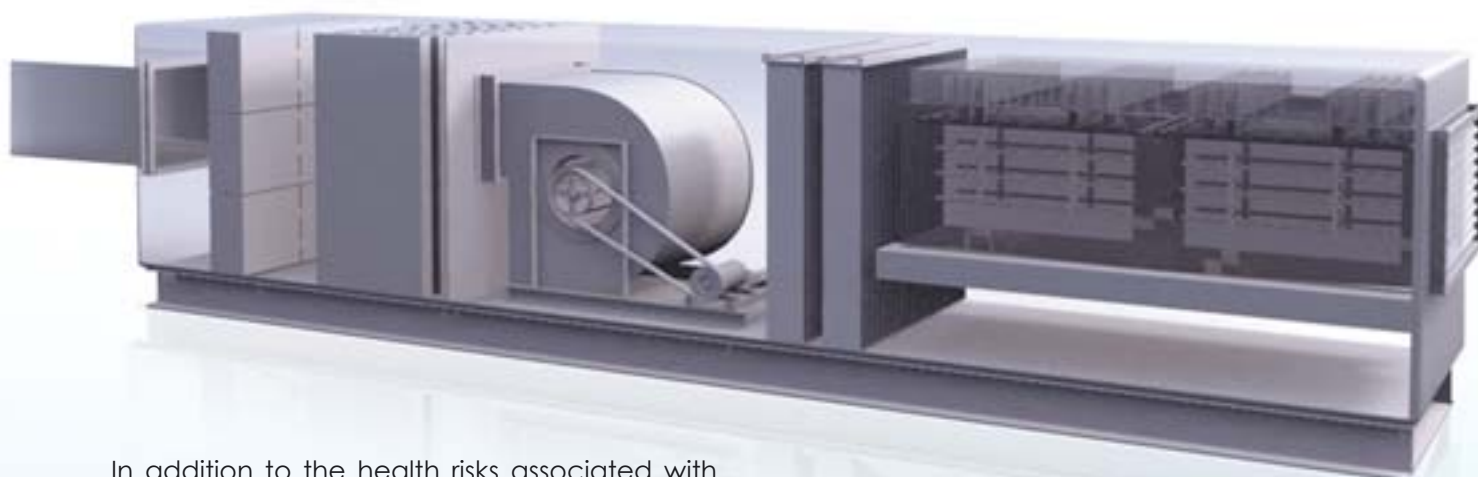
#### Genano 310

#### Genano 500

Recommended room size:	Less than 50 m <sup>2</sup>	Less than 100 m <sup>2</sup>	Less than 200 m <sup>2</sup>
Purification capacity:	Max 125 m <sup>3</sup> /h	Max 250 m <sup>3</sup> /h	Max 500 m <sup>3</sup> /h
Particle size:	> 0.001 µm	> 0.001 µm	> 0.001 µm
Purification performance:	Best on the market	Best on the market	Best on the market
Dimensions (W x D x H):	495 x 360 x 1,250 mm	450 mm x 385 mm x 1,470 mm	924 mm x 537 mm x 1,900 mm
Weight:	35 kg	55 kg	155 kg
Casing:	Aluminium, galvanised steel	Aluminium, galvanised steel	Aluminium, galvanised steel
Operating voltage:	200 – 240 V, 50/60 Hz	200 – 240 V, 50/60 Hz	200 – 240V, 50/60 Hz
Electricity consumption:	35 W	140 W	180 – 480 W
Operating temperature:	+5 – +60 °C	+5 – +60 °C	0 – +60 °C
Relative humidity:	0 – 95%	0 – 95%	0 – 95%
Cleaning:	Manual wash	Automatic wash	Automatic wash
Design:	Harri Koskinen		
Manufactured in:	Finland	Finland	Finland

## GENANO 1000

These products have been designed for a variety of working and production environments where the fine particles that float in the air are both a health risk to employees and can damage the products or the production process. Fine particles are a problem in many different industries: in industrial installations during welding (heavy metals), in bakeries (flour and spices), in the food processing industry (bacteria, mould), etc. Heavy concentrations of particulate matter block traditional filters quickly, making them ineffective and causing high electricity bills.



In addition to the health risks associated with fine particles, some conductive metal particles can also cause faults in expensive production machinery.

The Genano 1000 series comprises five different-sized units to choose from, depending on the volume of the room. According to a study conducted by the Technical Research Centre of Finland (VTT), the units are capable of removing almost 100% of all harmful particles.

Genano 1000 air purifiers can be used as stand-alone units or integrated into other ventilation machinery. The units contain no mechanical filters or moving parts and offer excellent energy-efficiency (low pressure loss).

Investing in Genano air purification technology is an investment productivity and good health for years to come.

### GENANO 1000 series air purification units:

- 0.5m<sup>3</sup>/s = 1,800m<sup>3</sup>/h
- 1.0m<sup>3</sup>/s = 3,600m<sup>3</sup>/h
- 1.5m<sup>3</sup>/s = 5,400m<sup>3</sup>/h
- 2.0m<sup>3</sup>/s = 7,200m<sup>3</sup>/h
- 3.5m<sup>3</sup>/s = 12,600m<sup>3</sup>/h

### Technical Data GENANO 1000

Purification capacity:	1,800 – 12,600 m <sup>3</sup> /h
Purification performance:	Best on the market
Casing:	Aluminium and zinc (AlZn) / stainless steel (RST)
Power:	200 – 240 V, 50/60 Hz
Energy consumption:	80 – 400 W
Temperature:	-40 – +60°C
Relative humidity:	0 – 95%
Cleaning:	Automatic cleaning
Manufactured in:	Finland



## Try breathing air that has been purified with Genano technology!

If the air seems stuffy, you have reason to worry. The problem can be easily verified with a particle count. Our technology rapidly removes health-endangering particles, offering an instant solution to your problem. We will assess your needs and give you a chance to personally test the performance of our units to find out how efficiently our technology could solve your indoor air problem.

## Technological advantages

Genano air purification units represent a completely different technology from traditional fibre filters. In fact, the units have no filters whatsoever. In Genano air purifiers, air flows freely between the collection surfaces, which is why pressure loss is minimal compared to fibre filters. And this translates into energy-efficiency!

Most fibre filters do not have the capacity to tackle ultra-fine particles. They are also an excellent breeding ground for microbes. From this breeding ground, bacteria, moulds, pollen and viruses spread into the indoor air.

Ozonators use ozone, which is harmful to people, to clear the air. Genano air purification technology is not based on generating ozone.

As for ionisation, the particular matter is not collected, but spread around the room. Genano units collect the particles, completely removing them from the room.

## Superior purification performance

Genano air purifiers efficiently remove particulate matter from the air (particles as small as 0.001 micrometres). The active carbon, which is built in to the units, eliminates gases.

## Tried and proved

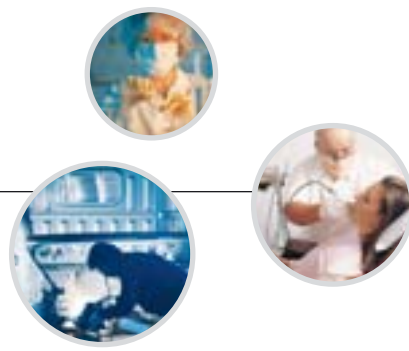
Genano air purification technology has been tested by several highly regarded research institutions such as the Technical Research Centre of Finland (VTT), Institute of Occupational Health, SGS in Finland and LNE in France.

## Advantages of Genano technology:

- The leading air purification solution on the market
- Patented, tested and studied technology
- Removes even ultra/nano-size particles
- Continuous purification performance
- Eliminates microbes and gases
- No breeding ground for microbes
- Carefree
- Economical
- Tailored applications
- Easy to clean



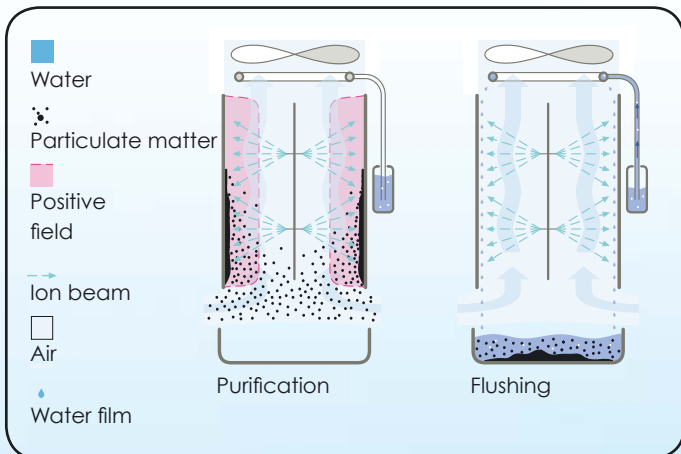
- High quality
- Hardwearing and long-lasting
- Cutting-edge design
- No filters, no risk of blockages



## Genano air purification technology

Genano technology works for all sizes of aerosols, whether in the form of particles or droplets. The units remove particles as small as one nanometre.

In Genano technology, the air flows freely between the collection surfaces or in a collection tube. The airborne particles are subjected to a powerful ionic spray, which gives them a negative charge and pushes them forward. The particulate matter settles onto a collection surface from where it is flushed into a separate vessel or sewage system with a mixture of water and detergent. The particles are collected into a vessel, providing tangible proof of just how efficient the technology is!



## Examples of customer references

Most of the local and regional governments in Finland get their air purification units from us. We have solved mould problems resulting from structural damage in a number of public buildings such as government offices, schools and nurseries.

Finnish hospitals have equipped their wards with Genano air purification units to protect personnel, patients and processes against indoor impurities.

Modern pharmacies use Genano air purifiers to remove microbes and road dust.

Most advanced metal engineering companies use Genano technology to eliminate the harmful effects of welding odours.

Most responsible dental laboratories and dentists use Genano technology to remove particles created during the dental process.

Hair salons and hairdressing schools use Genano air purifiers to remove harmful fine particles and gases.





## Genano Oy – enjoy breathing!

Genano air purification technology has been developed in close cooperation with leading scientists in technology. The core of our technology is being able to clear indoor air of particulate matter of any size, starting with nano-sized particles.

We have patented our technology in 42 countries.

Our mission is to improve productivity by offering better indoor air quality. We want to increase well-being in workplaces and boost productivity by ultra-purifying the air.

## Contact us

If your company suffers from poor indoor air, give us a call. Together we can find a solution for your problem. We are happy to take a particle count to measure the quality of your indoor air and you can rent one of our units to test how the technology works in practice. Always remember that prolonging the problem only results in higher costs in the long run!

### **GENANO OY**

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Represented by :