

GENANO AIR DECONTAMINATION SOLUTION FOR LABORATORIES

- Removes Even Nano Sized Particles
- Eliminates Viruses And Bacteria 99.999%
- Adsorbs Gases And Odors
- Constant Clean Air Delivery Rate 24/7

Genano



LABORATORY REFERENCES

Mobidiag – PCR diagnostics

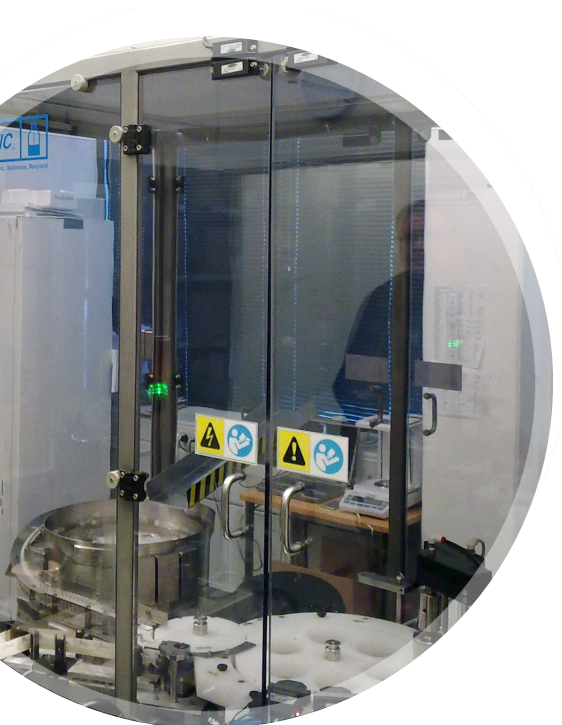
“For us the critical point in the air purification is to really eliminate the DNA contaminations. This calls for exceptional cleanliness.”

–CEO Tuomas Tenkanen &
Scientist Sanna Uusivirta

- Manufactures PCR-based molecular diagnostics products for human pathogen detection
- Laboratory environment purity extremely important
- Decided to use Genano technology instead of traditional HEPA filtration systems in their new cleanrooms
- ISO6 level was reached with Genano



Finnzymes – minimizing contamination in the enzyme packing process



“By using Genano, Finnzymes has succeeded in minimizing the risks of contamination in our products, cross contamination from room to room and helped in its DNA analytics by reducing false positive results.”

– Jukka Majaharju, Senior Production Scientist

- The aim of using Genano was to prevent airborne particles from spreading in the premises
- Solution: Genano unit was connected to the enzyme packing machine
- Remarkable cost savings due to minimized need to change the expensive, customized HEPA filter
- Long experience in PCR products as part of Thermo Fisher Scientific

NEST Laboratories – Solving the need for special air purification

“In molecular biology, “in vivo” experiments and cell cultures is where we protect the operating person and keep the level of contamination under control of the analyzed samples”.

– Dr. Pingue, NEST Laboratories

- In 2020 the NEST University Laboratory started carrying out tests on a Genano professional air decontamination unit
- The researchers were able to verify the type of substances captured by the unit through analyzing the residue from the collection tray inside the air decontamination unit.
- Users have declared an improvement in working conditions in terms of perceived odors
- NEST is going to continue with the air purification project



Crown IVF – increase in success rates and less miscarriages

“Since using Genano we have had a marked increase in our success rates of first time pregnancy results and less miscarriages.”

– Dr. Halil Tekin, Owner & head doctor

- Laboratory air quality can have a drastic effect on the IVF outcome
- Nanosized particles can penetrate the cells and interfere with the process
- VOCs can attach to DNA and decrease pregnancy rates
- Genano units are used to further purify HEPA-filtered air
- 5% success rate increase with Genano in the laboratory (empirical study in Crown IVF)
- Dr. Tekin and his team have helped over 22,000 families over the years



GENANO IN LABORATORIES

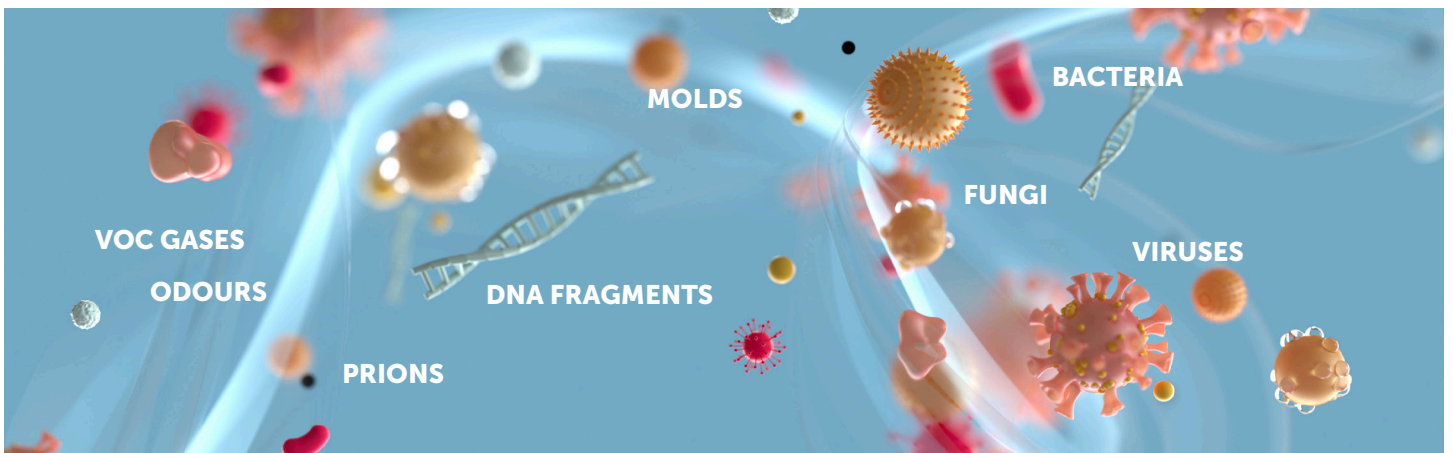
WHY COMPLETE AIR DECONTAMINATION

- Reach a specific particulate classification (ISO 14644-1/Federal Standard 209E)
- Minimize contamination and impurities in products and results
- Eliminate cross contamination from room to room
- Reduce false positive results in DNA analytics
- Protect personnel against infections
- Prevent contamination from mold and bacteria toxins

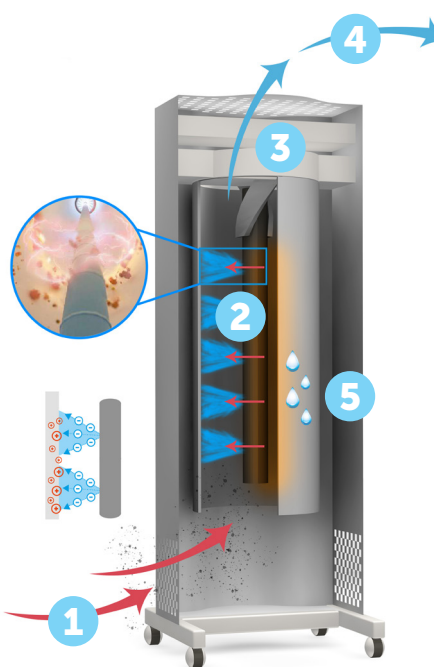
WHERE GENANO IS NEEDED

- PCR-testing
- Biosafety
- Genetics
- Virology
- Molecular
- Microbiology
- Labs handling infectious (i.e. SARS-CoV-2) samples
- In vitro fertilization treatments

WHAT GENANO REMOVES FROM LABORATORY AIR



GENANO TECHNOLOGY®



- 1 Contaminated air is led inside the unit.
- 2 Particles are charged negatively and attach to the positively charged collection surface. The high voltage process destroys all microbes.
- 3 The air is led to active carbon collector which effectively removes VOC gases and odors.
- 4 Outcoming ultra pure air is completely free from particles of all sizes, microbes, and harmful gases and chemicals.
- 5 The automatic washing function reduces the need for maintenance and keeps cleaning efficiency high 24/7

Tested by various independent research institutes, such as:

