

# Genano 360 Air Decontamination Unit User Manual

## 1. Genano® 360 air decontamination unit

Congratulations for purchasing a high-quality product!

Genano 360 is an air decontamination unit based on Genano Technology®. The unique technology removes even the smallest impurities from indoor air. These impurities can consist of particles, viruses, bacteria, mould spores as well as traffic originated soot. The product outlet provides you clean indoor air without particles or gaseous contaminants.

Genano 360 is designed especially for the air purification needs of office, various types of laboratories and cleanrooms.

If you start the product for the first time, it is recommended to use the highest fan speed for a short period, then lower the speed for continuous use. Lower fan speed drops the noise to comfortable level. The room indoor air is kept clean by continuous circulation through Genano 360 product.

Genano 360 requires yearly maintenance and service for removing the collected air contaminants and replacing the air collector with a fresh component.

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## 2. Delivery contents

Product package contains the Genano 360 product with power cord suitable for local AC grid supply socket. You may have optioned a wall bracket or insect screen. Their installation is instructed in separate documents.

## 3. Disposal of delivery package

Consumer package of this product is made of recyclable carton and cellulose materials. Dismantle the package before disposal. Follow the local advisory for recycling materials.

## 4. Technical specification

Air flow adjustable 80...300 m<sup>3</sup>/h

Mechanical dimensions (w x h x d): 30 cm x 90 cm x 37 cm

Weight: approximately 19 kg

Class I electrical installation with Protective Earth (PE) in use

Rated input voltage: 100-110 Vac  $\pm$  10 % fluctuations of mains voltage

Protected against occasional low energy over voltage spikes in the mains voltage

Rated input voltage frequency: 50/60 Hz

Power consumption: Max 175 W

Operational temperature range: +5°C...+40°C

Operational humidity 50 % RH up to +30°C, decreasing to 40 % RH at 40°C

Max operational altitude 2000 m

Operational environment pollution degree 2

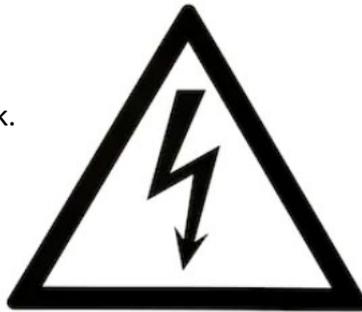
This appliance is designed to be used indoors and commercial areas

Vertically standing assembly

## 4.1 Precautions

! This appliance is not intended for use by persons (including children) with reduced physical, sensory or mental capabilities, or lack of experience and knowledge, unless they have been given supervision or instruction concerning use of the appliance by a person responsible for their safety. Children should be supervised to ensure that they do not play with the appliance.

Caution! Risk of electric shock.



See precautions on the following page!

! The product shall be used only in **dry indoor environment**.

! The product shall be used only with connections providing **Protective Earth (PE)**.

! The product has **serviceable parts inside**. Only Service Personnel authorized by the manufacturer shall open the chassis mechanics for maintenance and service.

! The product has **maintainable parts inside**. For maintenance operations obey carefully the maintenance instructions given in this user manual.

! For ensuring product's performance and safety, use only original materials and components validated and provided by the manufacturer, Genano Oy, Finland.

! The product shall be used only as the User Manual instructs. Improper use of the product may impair the protection provided by the product design.

## 5. Lifting and carrying

The product weights approximately 19 kg. Handle for carrying the product is on the back cover.

## 6. Installation

**!** The product shall be used and stored indoors.

**!** Do not use the product in vicinity of concentrated flammable gases, liquids, or large amounts of dust. The product's internal operation may ignite the concentrated gases or dust.

**!** Do not use the product in rooms without fresh air ventilation.

**!** Connect the product with the AC power cord delivered with the product package.

**!** Use only AC power cord rated 220-240 Vac and with ground (PE) connection.  
Wire diameter  $>1.5 \text{ mm}^2$ .

**!** Do not position the product so that it is difficult to operate if disconnection is necessary.

## 6.1 Free standing floor installation

Position the product vertically on an even base in close vicinity of the room fresh air ventilation. Ensure that the air inlets in the bottom sides or the clean air outlet on top of the product are not covered by other objects. Connect the power supply cord to a wall socket with Protective Earth (PE) connection.

For safety of use ensure in all installations that the AC power cable can be detached easily.

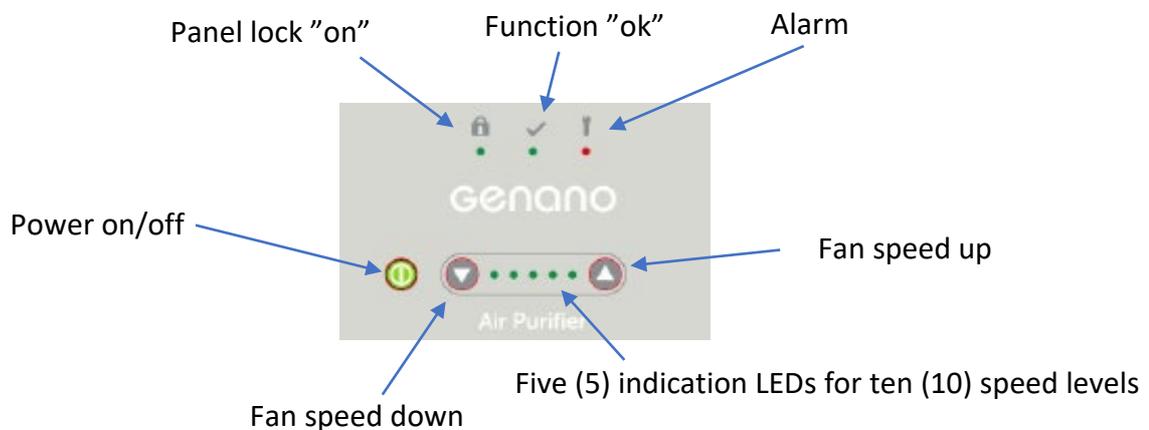
Do not install the product in wet locations, outdoors, or sheltered outdoor areas without temperature control.

## 7. Operational use

**!** This appliance is not intended for use by persons (including children) with reduced physical, sensory or mental capabilities, or lack of experience and knowledge, unless they have been given supervision or instruction concerning use of the appliance by a person responsible for their safety. Children should be supervised to ensure that they do not play with the appliance.

### 7.1 Control panel

The control panel is on the left side of the product. For control operations the membrane buttons shall be pushed. In order to prevent damage press membrane buttons with fingers.



**Figure 2.** Genano 360 control panel buttons and indication LEDs.

## G360-UserManual-EN-revA-ver1

- 1) **Turn on the product** by pressing sharply the “Power On” button.
- 2) **Adjust the air volume** by pressing repeatedly the fan speed arrows. If you start the product for the first time in a room, it is recommended to use the highest fan speed for a short period, then lower the speed for continuous use. Lower fan speed drops the noise to comfortable level. The room indoor air is cleaned and kept clean by continuous circulation through Genano 360 product.

### 7.2 Power off

Switch the product operation off by pressing the “Power off” button.

### 7.3 Panel lock

#### **Enable panel lock**

Press the “Fan speed up” button and keep it pressed for four (4) seconds (1-2-3-4).

On the fourth (4.) second press sharply the “Fan speed down” and release both buttons simultaneously. The “Panel lock on” indication LED lights up.

#### **Panel lock release**

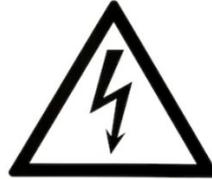
Repeat the above procedure as the panel lock is “on”. The “Panel lock on” indication LED shuts down.

#### **Total panel lock**

As the panel lock is “on”, press any button more than four (4) seconds. The panel lock stays on and does not release by panel lock release. The total panel lock can be released by disconnecting the power cord from the mains wall socket and waiting for at least two (2) minutes. As the power cord is re-connected, the Genano 360 is returned to power off status. The product operation can be re-started by pressing the “Power on” button.

## 8. Maintenance

Caution! Risk of electric shock.



Only Genano company authorized personnel may perform the maintenance operations. For maintenance contact the local Genano representative.

- ! The product has high voltage parts inside.
  - ✓ Only Service Personnel authorized by the manufacturer may perform tasks that require opening the product.

- ! The product has high voltage parts inside.
  - ✓ Do not let liquids enter product chassis!
  - ✓ Disconnect the power supply before any maintenance operation!

### 8.1 Cleaning

De-energize the product by disconnecting AC power cord from 100-110 Vac 50/60Hz.

Wipe the product clean with slightly wet cloth. To avoid any damage on surface of the control keyboard do not use strong detergents.

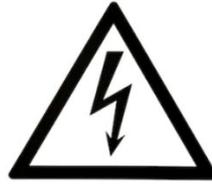
### 8.2 Air collector replacement

Only Genano company authorized personnel may perform the maintenance operations. For maintenance contact the local Genano representative.

- ! In order to ensure continuous air cleaning process it is essential to perform regular maintenance by replacing the collector package with a fresh one.

The air collector absorbs gaseous particles and Volatile Organic Compounds (VOC). The air collector is in the upper chamber of the product. The air collector typically wears out in one (1) year cycle and shall be replaced with a fresh one.

Caution! Risk of electric shock.



! The product has high voltage parts inside.

- ✓ Only Service Personnel authorized by the manufacturer may perform tasks instructed here

As a service operation the Genano 360 air decontamination unit requires cleaning of the collector tube at least once a year. For cleaning the collector tube the product shall be dismantled for the cleaning. Only Genano company authorized personnel may perform the maintenance operations. For maintenance contact the local Genano representative.

## 9. Product storage

If not used the product shall be stored indoors at dry environment. It is recommended to cover the fresh air outlet on top side of the product. This prevents cumulating of dust that would be spread around as the device is taken into use and started.

## 10. Troubleshooting

### 1) If the product does not start operation

Check that product gets AC mains supply voltage with Protective Earth (PE) connection.

### 2) Red alarm led is lit on

Any failure of the product operation is indicated by the red "Alarm" led on the control panel. Request service from the local Genano representative.

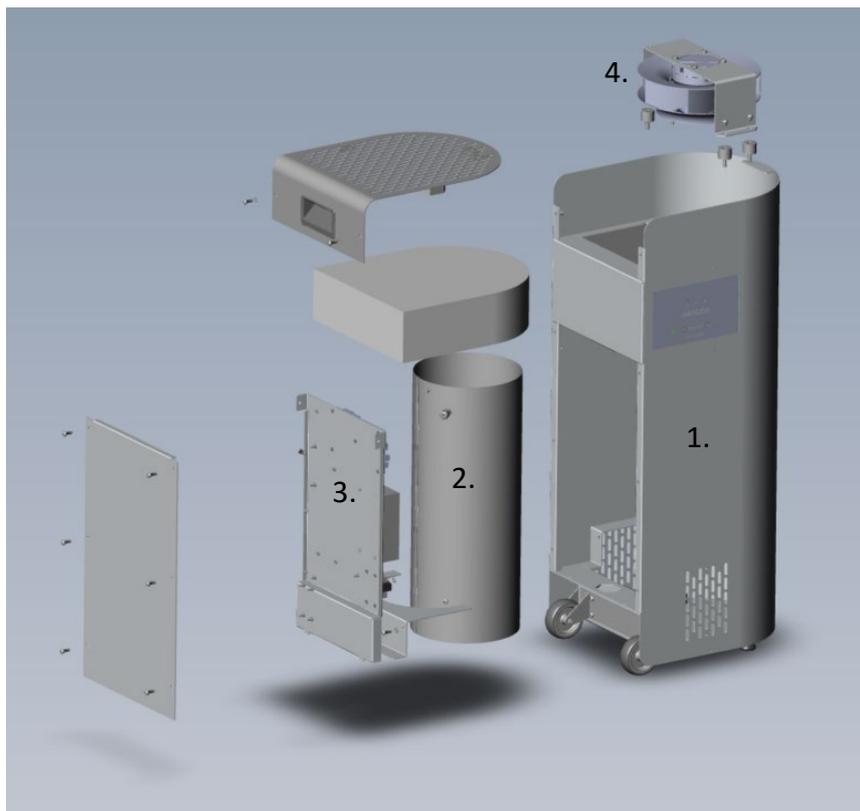
### 3) The product does not remove odours

The air collector has saturated and is no longer able to absorb gaseous particles. Replace the air collector with a fresh one. See Maintenance operations above.

## 11. End-of-Life instructions for disposal

Genano 360 product shall be recycled by dismantling the product and sorting the components into following categories (refer to figure 6 below):

- 1) Product chassis and electronics base plate shall be recycled as aluminium (Al) parts.
- 2) Collector tube shall be recycled as ferrous steel (Fe).
- 3) Electronic components and cables shall be recycled as electronic waste. The base plate of the electronics is aluminium (Al).
- 4) Product fan unit (highlighted in figure 6) made of reinforced polypropylene (PP) with brominated flame retardants shall be arranged according to instructions given by the local authorities. The fan unit can be disposed as whole.
- 5) Membrane control panel (highlighted in figure 6) made of flame retardant clear polycarbonate (PC) film and polyethylene terephthalate (PET) plastic shall be recycled according to instructions given by the local authorities.



**Figure 6.** Genano 360 main components for recycling: 1. Chassis materials, electronics base plate and collector tube, 2. Collector tube, 3. Electronic components and cables, 4. Fan unit.