

Genano

Genano® 5250 Automatic & Manual

AIR DECONTAMINATION UNIT

User Manual



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Genano® 5250

Automatic & Manual

Air Decontamination Unit

Genano 5250 is an air decontamination device based on Genano Technology®. The unique technology removes even the smallest impurities from indoor air. These impurities can consist of viruses, bacteria, mold spores as well as traffic originated soot.

Genano 5250 doesn't have traditional fiber filters, so there is no risk for a breeding ground for microbes forming inside the unit even in humid conditions. In Genano technology, an active carbon collector is used for the removal of harmful gases and odors.

This manual explains installation and operation activities of the Genano 5250 unit.

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Contents of delivery



1 Genano 5250 unit with main power cable

Contains 1 active carbon plate to handle gas emissions. Make sure the active carbon plate is changed two times per year.

Washing liquid (Genonex)










Contains 10 ltr of Genonex in separate canisters. Only use approved Genano washing liquids in Genano units.

Note: The washing liquid reservoir of the unit holds max. 9,5 ltr.

Technical features

Technical Information	Genano® 5250
Clean air delivery rate	200 - 500 m3/h
Particle cleaning efficiency	99.5% of particles $\geq 0.003 \mu\text{m}$
Microbiological efficacy	99.999 %
Gas adsorbtion	1100g / 60mm active carbon
Dimensions (W x H x D)	600 x 1680 x 600 mm
Weight	91 kg
Material	Painted steel
Installation	Mobile
Fan speed	M: 3 speed options (200, 350 and 500 m3) A: Stepless adjustment (200-500m3/h)
Power consumption	50-150 W
Sound level	25-45 dB(A) at 3 m
Rated voltage	220-240 V, 50/60 Hz
Operational temperature	+5...+40 °C
Accessories	Negative / positive pressure kit



	Air Flow Level	Operation Mode	Noise Level	Cleaning Efficiency
1	200 m ³ 	Silent Mode (Night use) 		☆☆☆
2	350 m ³ 	Basic Mode (Day use) 		☆☆☆
3	500 m ³ 	Boost Mode 		☆☆☆

Before use

TO TAKE INTO CONSIDERATION WHEN PLACING THE UNIT IN A ROOM

Genano 5250 is positioned to stand vertically on an even base. Two out of four wheels can be locked.

Unit can be moved over doorsteps and other obstacles by tilting.

NOTE! If possible, always transport the unit vertically. If this is not possible, and you need to transport the unit horizontally, empty the washing fluid container and make sure the front of the unit is facing upwards during transport. Let the device dry in a vertical position for at least 8 hours before turning it back on. The device is always to be used vertically. Only use and store the unit indoors.

WARNING! Never use the unit in a place where for example flammable gases and liquids or large amounts of dust in the air may form an explosive mixture ignited by a spark.

Do not use the unit in spaces without normal ventilation. Make sure you have sufficient ventilation!

Genano 5250 takes in the contaminated air from the bottom. The purified air is let out through the upper part of the unit. Place the unit so that the furniture in the room influences the course of the air flow as little as possible. The unit is to be placed so that it circulates the air the same way the air normally circulates in the room. The best effect is usually achieved when the unit is placed near the air income.

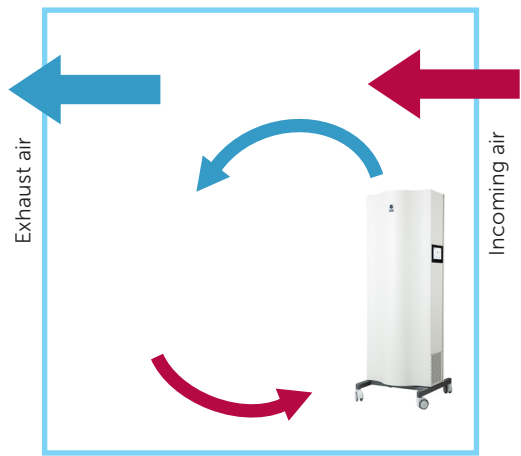
The best level of air purification is reached near the unit. Therefore, the best place for the unit in a big room is near a workstation. The unit can also be placed near sources of problematic particles to prevent the particles from spreading.

By adjusting the fan settings the production of purified air can be increased.

NOTE! It is recommended to leave the unit on at all times, including times when no one is in the room, nights and weekends.

Genano experts will help you with questions regarding indoor air quality and placement of the unit and fan settings. Follow the instructions given by your Genano expert to ensure the best possible outcome.

SIDE VIEW



Installation

NOTE! We recommend that only authorized Genano service installs the 5250 unit.

1. Open the front door. Return the door handle to a vertical position.

2. Open the wing screw in the washing liquid container (see picture) and carefully lift the container on the floor.



Opening the washing liquid container (wing screw)

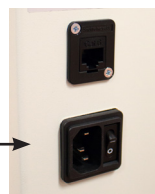
3. Open the cork, remove the seal, and fill the washing liquid reservoir with Genobase washing liquid. Note: The washing liquid reservoir of the unit holds max. 10 ltr.

4. Insert the washing hose into the washing liquid reservoir.

5. Lift back the washing liquid container, fit the bottom part carefully to the base and attach the upper part with the wing screw. Keep the cork for future use.

6. Close the door.

7. Make sure that the manual main switch is in the **0**-position. Plug the grounded main power cable that came with the unit first into the Genano 5250 before you plug in the main cable into a grounded power socket (230V / 50Hz).



Manual main switch

WARNING! Only plug the unit into a grounded power socket.

8. Switch the manual main switch to the **1**-position. The unit starts up.

NOTE! Lock the front door of the unit when operated near children or pets.

Basic operation - Automatic

Genano 5250 Automatic version is controlled by a touch screen. When the unit is plugged in a power outlet for the first time, the touch screen shows the start-up view (image A). Push the power button on the screen to start air purification.

The operation view (image B, page 10) allows you to adjust air flow steplessly, using a slider. You can also push the fan buttons to change the air flow to predefined values. The boost button can be used to temporarily boost the air flow in the room.

A screen saver (image C, page 10) is automatically shown if the touch screen is not used for some time. The unit is functioning and purifying air normally when the screen saver is shown.

NOTE! If you cannot access the touch screen controls without a pin code, the unit has been locked for extra protection. Contact the maintenance of your property for more information.

SYSTEM WASHING CYCLE

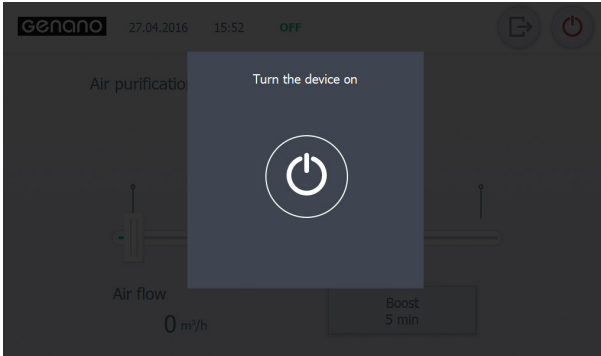
NOTE! The flush bowl inside the unit does not contain any living microbes and it does not cause danger to people around or in contact with the unit. The weekly wash liquid (0.3-0.4 litres) evaporates to the air inside the unit within a week. The bowl can be cleaned with a soft material or sterilized in an autoclave (max. 120 °C).

The unit efficiently collects atmospheric particles on the collection surfaces inside the unit. Washing of the collection surfaces takes place automatically once a week.

After the washing cycle the unit is drying. The washing and drying last together normally less than a minute. In extreme hot and moist conditions the cycle may be prolonged. The unit continues operation automatically when the drying period is over.

NOTE! It is recommended to let the unit be continuously ON to ensure the weekly washing and good air quality. If the unit is not ON the automatic wash may be missed.

NOTE! In critical conditions, such as hospital isolation rooms, the automatic washing function can be turned off. In this case, washing must be started manually once a week. Contact an authorized Genano service to change your unit settings in critical conditions.



A

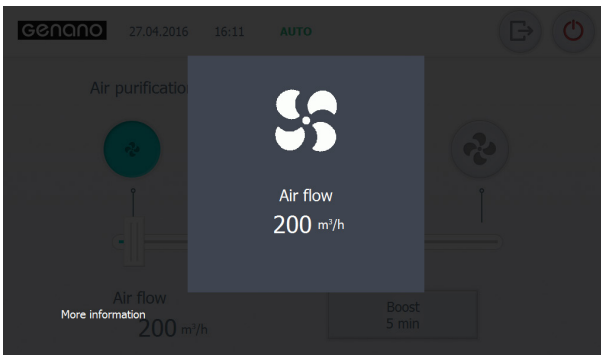
Start-up view



B

Operation view

Login



C

Screen saver

WEEKLY PROGRAM

If a weekly program is turned on, the unit will automatically change air flow at predefined times. This is indicated by the word "AUTO" in the top part of the touch screen (see image B, page 10).

If you adjust the air flow manually, using the slider, the word "MANUAL" will appear in the top part of the touch screen. The unit will continue at your chosen fan speed until the next change in the weekly program takes place. At this moment, the "AUTO" program is taken into use again.

If you wish to change the weekly program settings or disable it, please contact the maintenance of your property.

ERROR/SERVICE

Genano 5250 Automatic has an internal monitoring system. A message is shown on the touch screen when:

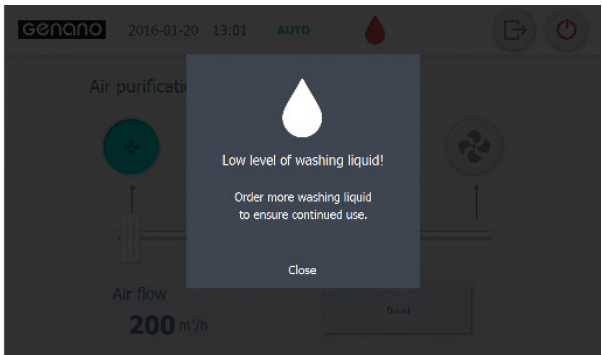
- low level of washing liquid is detected,
- unit has ran out of washing liquid,
- front door is open,
- or there is a malfunction which requires service.

Please act according to the instructions given on the screen.

RUNNING OUT OF WASHING LIQUID

If the container is running out of washing liquid, an error message pops up on the screen (image D).

The washing liquid shall be filled according to the instructions on page 7. If washing liquid is not added within a week, the unit will stop.



D

Washing Liquid Message

OTHER ACTIONS

Genano 5250 automatic version is controlled by a touch screen. The front door can be opened for maintenance by an authorized Genano service.

Advanced operation - Automatic

Advanced settings are available for the maintenance team in your property.

Log in with level 2 pin code from the login button (see images B, page 10 and E, page 14).

After this, additional shortcuts to settings are shown on the left side of the panel (see image G, page 14).

WEEKLY PROGRAM

The weekly program (see image E, page 12) allows you to set an automatic program for the week. You can choose between three predefined fan settings. Use the arrows on the top right to move between morning and night times.

You can also disable the weekly program by moving the slider from "AUTO" to "MANUAL".

SETTINGS

Time, date, language and pin code settings are accessed from the wheel button on the left.

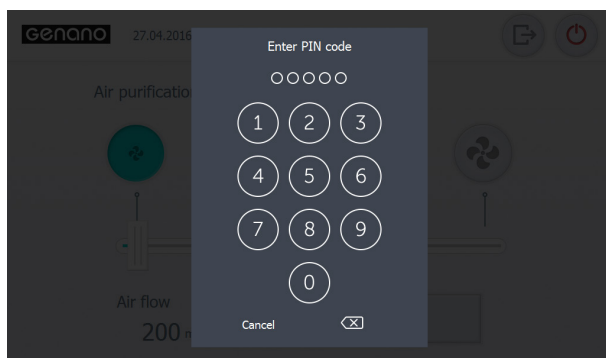
On page 1/2, you can choose between manual and automatic setting of date and time, and their format.

On page 2/2, you can change the language of the unit and 1st and 2nd level pin codes. (2nd level pin code is the one you used to login to these settings.

- 1st level pin code is used in critical surroundings only. It prevents the user from doing anything without the 1. level pin code. It can only be activated by an authorized Genano service team.
- 2nd level pin code is for local maintenance of the property. It is the pin code you logged in with.

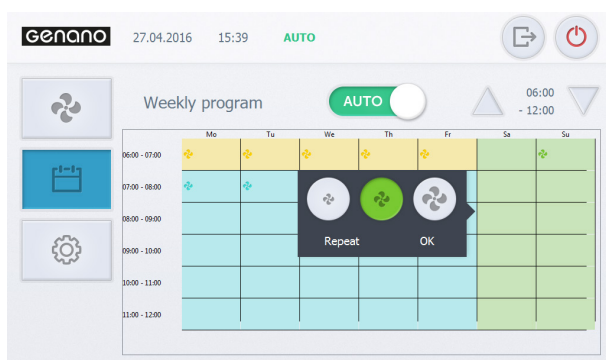
LOGOUT

After changing the settings, remember to log out from the login/logout button on the top panel.



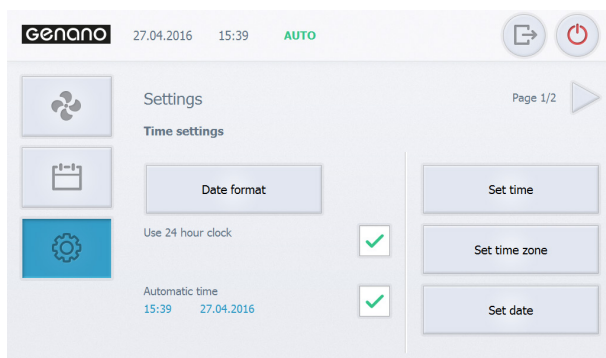
E

Enter PIN code



F

Weekly program



G

Settings

Basic operation - Manual

Genano 5250 Manual version is controlled manually. The unit is functioning and purifying air when the green **OK light** (A, page 16) is illuminated.

NOTE! It is recommended to let the unit be continuously ON to ensure the best possible air quality.

The unit efficiently collects atmospheric particles on the collection surfaces inside the unit. Washing of the collection surfaces takes place automatically once a week. During the flushing of the collection surface the green **WASH light** (B, page 16) is on.

After the washing cycle the unit is drying. During the drying the unit is silent and the green **WASH light** (B, page 16) is on. Do not open the door when the unit is washing or drying.

The washing and drying last together normally less than a minute. In extreme hot and moist conditions the cycle may be prolonged. The unit continues operation automatically when the drying period is over.

AUTOMATIC WASHING

The unit efficiently collects atmospheric particles on the collection surfaces inside the unit. Washing of the collection surfaces takes place automatically once a week.

After the washing cycle the unit is drying. The washing and drying lasts together less than a minute. The unit continues operation automatically when the drying period is over.

NOTE! The green **WASH light** (B, page 16) is on until the drying period has ended.



The front door of Genano 5250 Manual can be locked. Inside the unit, there is a washing liquid container and a flush bowl.

SIGNAL LIGHTS

A. OK

Green light

B. AUTOMATIC WASHING / DRYING

Green light

C. CLOSE DOOR

Green light

D. ERROR / SERVICE

Red light

E. ADD WASHING LIQUID

Yellow light

OPERATION SWITCHES

F. MAIN SWITCH

On (I) / Off (O)

G. FAN SETTINGS / CAPACITY

1 - 2 - 3

H. POWER WASH

Keep the switch pressed down until the fan stops and washing starts.

The unit is functioning and purifying air when the green **OK light** (A) is illuminated.

NOTE! It is recommended to let the unit be continuously ON to ensure the best possible air quality.

The unit efficiently collects atmospheric particles on the collection surfaces inside the unit. Washing of the collection surfaces takes place automatically once a week. During the flushing of the collection surface the green **WASH light** (B) is on.

After the washing cycle the unit is drying. During the drying the unit is silent and the green **WASH light** (B) is on. Do not open the door when the unit is washing or drying.

The washing cycle lasts less than a minute and the drying period can vary from minutes up to 8 hours. The unit continues operation automatically when the drying period is over.

NOTE! The green **WASH light** (B) is on until the drying period has ended.

RUNNING OUT OF WASHING LIQUID

If the container has run out of washing liquid, the unit is unable to perform the automatic washing function. When this happens the yellow **ADD WASHING LIQUID light** (E) turns on.

The unit will continue its normal operation even if one automatic wash cycle is missed due to a lack of washing liquid.

If washing liquid is not added within a week, the unit stops and the red **SERVICE light** (D) lights up. Do not switch OFF the unit.

NOTE! The unit needs to be **ON** when adding washing liquid. Do not turn it OFF.

Genano washing liquids are environmentally friendly. In normal home and office use, the dirty flush liquid can be poured into the sewer. If the unit is used to remove hazardous material, dispose of the dirt according to environmental regulations.

WARNING! Only use approved Genano washing liquids in Genano units.

FRONT DOOR

If the front door is opened during normal operation, the **ERROR/SERVICE light** (see D on page 16) and the **CLOSE DOOR light** (see C on page 16) turn on and the unit stops the air purification. The unit continues purifying air only after the door is closed.

When the front door is open, non-purified air cannot flow through the unit, as the active carbon collector prevents the flow of air when the fan is not on.

ERROR/SERVICE

Genano 5250 Manual has an internal monitoring system. This feature protects the unit and increases the drying period if parts are too wet after the washing. It is completely normal that the drying period is increased due to the monitoring.

However, if the drying takes an abnormally long time and the unit will not turn on (the **OK light**, see A on page 16, does not turn on) there may be a malfunction. A straightforward indication of a malfunction is the **ERROR/SERVICE light** (see D on page 16) turning on and staying lit.

If the **ERROR/SERVICE light** is on make sure that the front door is closed. Then try resetting the unit (see instructions below). If the malfunction does not go away, contact an authorised Genano service representative.

Resetting the unit

1. Switch OFF the unit (main switch, **F** on page 16) and wait about 20 seconds.
2. Switch ON the unit.

SYSTEM WASHING CYCLE

The unit efficiently collects atmospheric particles on the collection surfaces inside the unit. Washing of the collection surfaces takes place automatically once a week.

After the washing cycle the unit is drying. The washing and drying last together normally less than a minute. In extreme hot and moist conditions the cycle may be prolonged. The unit continues operation automatically when the drying period is over.

POWER WASH

Power wash can be used if the unit is under heavy duty use in a location where the air has a particularly large amount of particles.

The power wash is performed by pressing the **POWER WASH switch** (see H on page 16) and holding it down until the fan stops and the unit starts the wash cycle (about 5 seconds). The unit continues purifying air automatically after the wash.

After the power wash, check the cleanness of the rinsing liquid in the flush bowl. If necessary, you can repeat the power wash.

If the power wash is done several times the unit needs more time to dry and start automatically. Also the flush bowl must be emptied and the washing liquid container must be filled after multiple washes.

The outer surfaces of Genano 5250 can be disinfected by wet wiping with:

- ethanol-based disinfectants (up to 70 vol-% of ethanol) or
- isopropanol-based disinfectants (up to 70 vol-% of isopropanol)

NOTE! The flush bowl inside the unit does not contain any living microbes and it does not cause danger to people around or in contact with the unit. The weekly wash liquid (0.3-0.4 litres) evaporates to the air inside the unit within a week. The bowl can be cleaned with a soft material or sterilized in an autoclave (max. 120 °C).

NOTE! Pay attention to the hygiene guidelines of the facility/organization when installing and moving Genano air purifiers. If the unit is used to decontaminate air from infectious pathogens or other highly dangerous agents e.g. in hospitals and other critical areas, the device and all parts should be properly disinfected before and after use.

Warranty conditions

1. GENERAL

Genano Ltd warranty conditions follow the NL 09 (articles 21-35) contract terms with the following modifications and amendments.

2. WARRANTY PERIOD

The warranty period is 24 months from the date of delivery, unless otherwise stated in the product-specific warranty, offer or contract.

3. CONTENTS OF WARRANTY

Repairing a defective part or device or if needed replacing the faulty part or unit with a new one according to the consideration of the salesperson is included in the warranty. Possible travel expenses and freight costs that are caused by the warranty repair are not included in the warranty.

4. ADDITIONAL

Additional warranties, commitments or assurances potentially given by the distributor or reseller bind only them. Genano Ltd is responsible only for the warranty stated here.

5. LIMITATIONS OF WARRANTY

This warranty is given with the assumption that the product is used in normal indoor conditions and that the operating instructions are followed carefully. The warranty is only valid under these conditions. The responsibility of the guarantor is limited to these warranty conditions and does not cover damages a sold product causes another object or a person. On the basis of this warranty the client is not entitled to demand anything from anyone other than the guarantor. Verbal clauses not included in these warranty conditions do not bind the guarantor. For the warranty to be valid, the information and serial numbers on the product or in the warranty cards are not to be changed or damaged.

The warranty does not include damage that has been caused:

- during shipment
- by negligence of the user of the product or overload of the product
- by use that is against the operating instructions, lack of care or service, the product falling or liquid damage
- by circumstances not dependent on the guarantor such as fluctuations in power supply voltage, (fluctuations in voltage can be at maximum level +10 %), thunderstorms, fires or accidents

- by service, repairs or alterations in structure performed by other than authorized repair service
- or by placement of the unit against operating instructions or otherwise incorrectly.

The warranty does not include repairing damage that has no effect on the functionality of the product.

Parts that have a risk of break up from handling or natural wear and tear like fuses, plastic parts movable by hand or other parts that wear are not included in the warranty.

6. ACTIONS TO BE TAKEN WHEN A FAULT IS DISCOVERED

When a fault appears during the warranty period the client is to contact the authorized service provider or distributor without delay. The client is to tell what product is in question (the designation of type and serial number on the warranty card or the data plate), what the fault is as specifically as possible and in what kind of circumstances the fault has appeared. A precondition for the warranty service is also that the customer reliably shows that the warranty is valid (by presenting the purchase invoice with the serial number of the product).

Safety instructions

1. Only use the unit indoors.
2. Do not place or store the unit where it can get wet. Do not keep the unit in the rain or pour water on it. Do not use a wet unit.
3. Never put the unit in direct, hot sunlight or store at a temperature above 140°F (60°C).
4. Do not place or store the unit in a place where it can fall over.
5. Do not use the unit in spaces without normal ventilation. Make sure you have sufficient ventilation.
6. Do not use the unit if it is damaged in any way.
7. Do not use the unit if it has a damaged cord or plug. Return the unit to an authorized Genano service location for examination and repair.
8. To prevent possible damage to the cord, do not wrap the cord around the unit and keep the cord away from heated surfaces.
9. Only plug the unit to a grounded outlet.
10. Always attach the power cable first to the unit, then to the outlet (wall). Be certain that the plug is inserted firmly into the unit. To disconnect, turn off the device, then remove the plug from the outlet.
11. Unplug the unit before moving or transporting it to another location.
12. Do not cover the air intakes of the unit. Do not place anything directly on top of the unit.
13. Never drop or insert any object into any opening.
14. Lock the bottom basin when the unit is operated near children or pets.
15. The unit is only allowed to be serviced by an authorized repair service.
16. Do not take the active carbon plate out of the unit.
17. **WARNING!** Due to its mode of operation the electronic unit may occasionally emit sparks. Never use the unit in a place where flammable gases or liquids or large amounts of dust may combine with air to form an explosive mixture.

Always follow the operational instructions when using this Genano unit. Do not use expansions or supplies not recommended or used by Genano Ltd.

Contact

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Conversion table

Conversion from m3/h to CFM

m3/h	CFM
200	118
210	124
220	129
230	135
240	141
250	147
260	153
270	159
280	165
290	171
300	177
310	182
320	188
330	194
340	200
350	206
360	212
370	218
380	224
390	230
400	235
410	241
420	247
430	253
440	259
450	265
460	271
470	277
480	283
490	288
500	294

Conversion from CFM to m3/h

CFM	m3/h
118	200
124	210
129	220
135	230
141	240
147	250
153	260
159	270
165	280
171	290
177	300
182	310
188	320
194	330
200	340
206	350
212	360
218	370
224	380
230	390
235	400
241	410
247	420
253	430
259	440
265	450
271	460
277	470
283	480
288	490
294	500

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