



APPLICATION

Devices of Lautus series are destined to filter air from microorganisms, mould, bacteria and viruses of size under 0.1 µm or SMOG. Purifiers field of use are covered areas of public use such as:

- receptions, shops, pharmacies, offices, restaurants as well as workshops.

DESIGN

Due to the reason that decomposition time of bacteria is significantly shorter on copper surfaces, at the purifier inlet and filtration chamber copper mesh is used.

The principle of Lautus filtration is based on 3 stages:

- I - Pre-filter of G3* class placed behind inlet mesh, which role is to catch dust and eye-visible pollen
- II - Activated carbon filter, placed before UV-C lamp, which role is to filter air from microorganisms and odour
- III - H14* class filter, placed after UV-C lamp, which is able to stop 99,995% particles of size under 0,1 µm such as viruses

The filtration chamber equipped with H14 filter and UV-C lamp is sealed. UV-C lamp radiation causes microorganisms and viruses decomposition inside the chamber. On side panels there are customizable „Lautus“ shaped LED's indicating working state of UV-C lamp. Furthermore the device has front light, which can indicate air quality with corresponding color. The lamp itself work in 1 to 1 hr work-stop scheme. The devices fulfill PN PN-EN 62471 norm about lamp foto-biological safety.

Control system enable step-less customization of 4 airflow speeds.

Filtration unit inform user about filter clogging, unsealing of filtration chamber, UV-C lamp failure and necessary service or maintenance. All features are fitted inside light painted, aluminium frame based on wheel set.

Control is conducted via LCD interface with touch-sensitive panel. Whole Lautus series is equipped with particle matter air quality PM1; PM2,5 sensor, coupled with airflow control, optimizing filtration.

With Lautus air purifier there is option to program complex schedule for 7-day work.

Optional unit can be fitted with wireless module for monitoring and software updating.

MOTOR

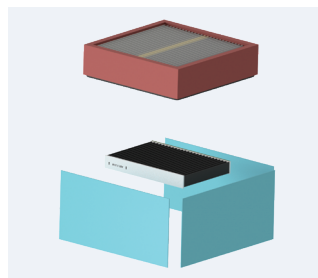
Efficient motors with integrated EC control technology, minimize running cost.

*Filtration efficiency is defined by PN-EN ISO 16890, PN-EN 1822-1, PN-EN ISO 29463-4 norms.



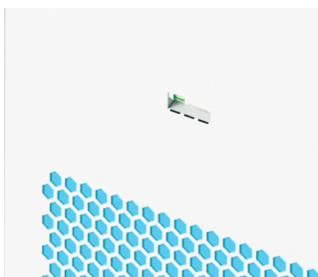
Controls

Control of the device is fulfilled via LCD interface with touch-sensitive panel.



Filtration

3-stage filtration supported by copper baffles, chosen for optimum filtration.



PM Sensor

Air quality is live monitored via PM sensor enabling filtration efficiency adjustments.



UV-C Lamp

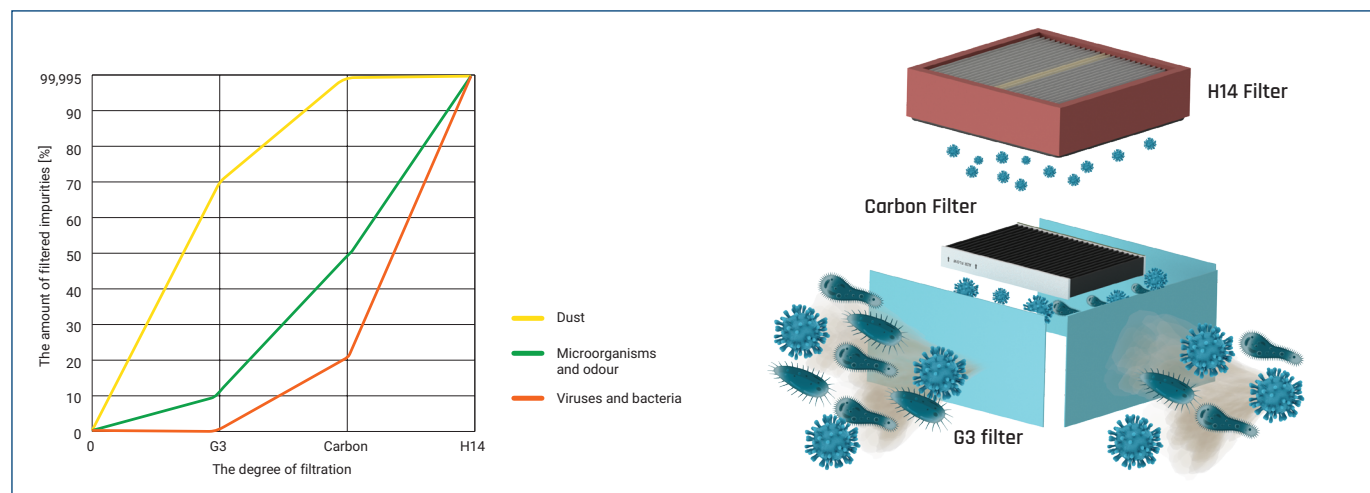
The device is equipped with UV-C lamp of **proven operation**. The lamp emit light of 253,7 nm wave length **not generating ozone**, effectively decomposing microorganisms and viruses caught on filters surface.

TECHNICAL CHARACTERISTICS

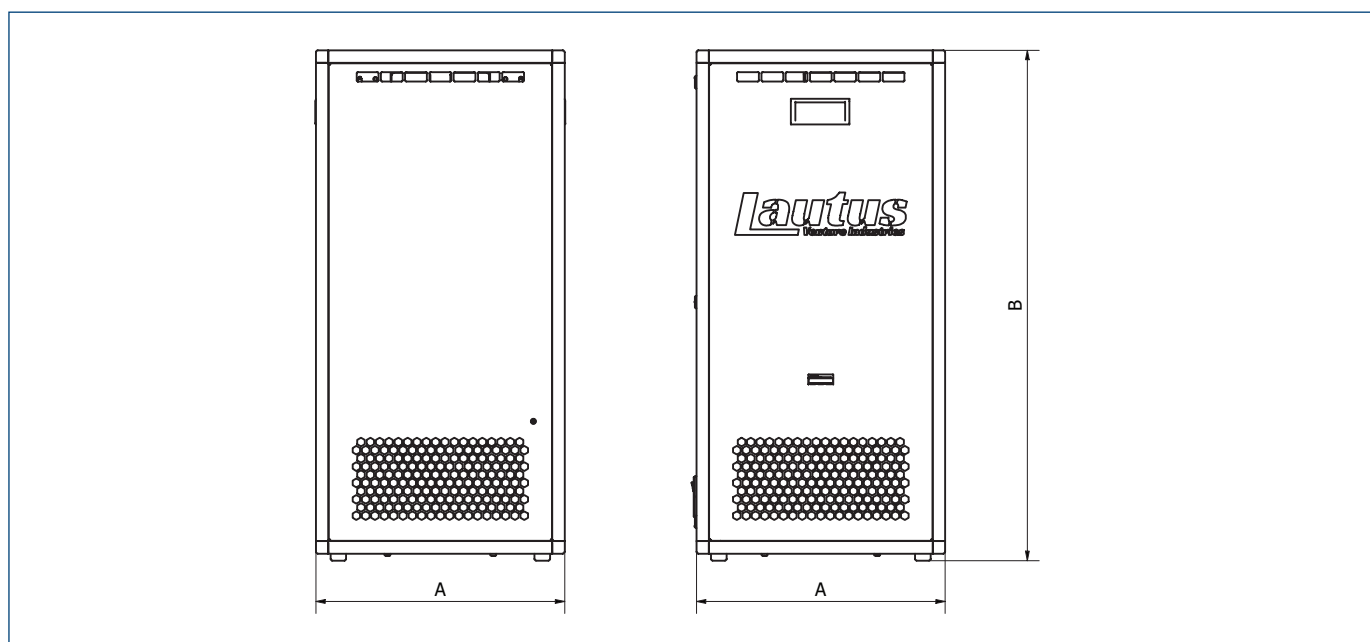
Type	power consumption	setting	Airflow	acoustic pressure level*	weight	Voltage	Article number
	[W]	[%]	[m³/h]	[dB(A)]	[kg]	[V]	
LAUTUS 10	40	20	90	36	23	230	70010608
	50	40	120	41			
	70	60	150	44			
	80	80	180	45			
	90	100	205	47			

* measured from 1.5 m distance.

OPERATION OF FILTERS



WYMIARY [mm]



Type	A	B
LAUTUS 10	400	810

Type	Filtr G3	Filtr węglowy	Filtr H14
LAUTUS 10	25515530-13	46515004	91020326-01