



APPLICATION

Devices of Lautus series are destined to filter air from microorganisms, mould, bacteria and viruses of size under $0.1 \mu\text{m}$ 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 G4* class placed behind inlet mesh, which role is to catch dust and eye-visible pollen
- II - H13* class filter, placed before UV-C lamp, which role is to filter air from microorganisms, bacteria and mould
- III - H14* class filter, placed after UV-C lamp, which is able to stop 99,995% particles of size under $0,1 \mu\text{m}$ such as viruses

The filtration chamber equipped with H13 and H14 filter with UV-C lamp between 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 backlight beneath, which can indicate air quality with corresponding color. The lamp itself work in 1 to 1 hr work-stop scheme. The devices fulfill 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.

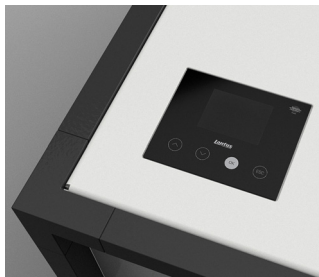
With Lautus air purifier there is option to program complex schedule for 7-day work.

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

MOTOR

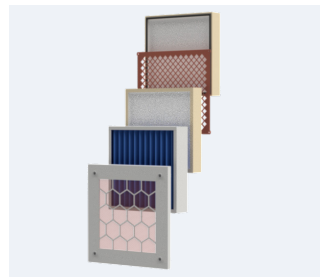
Efficient motors with integrated EC control technology, minimize running cost.

*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

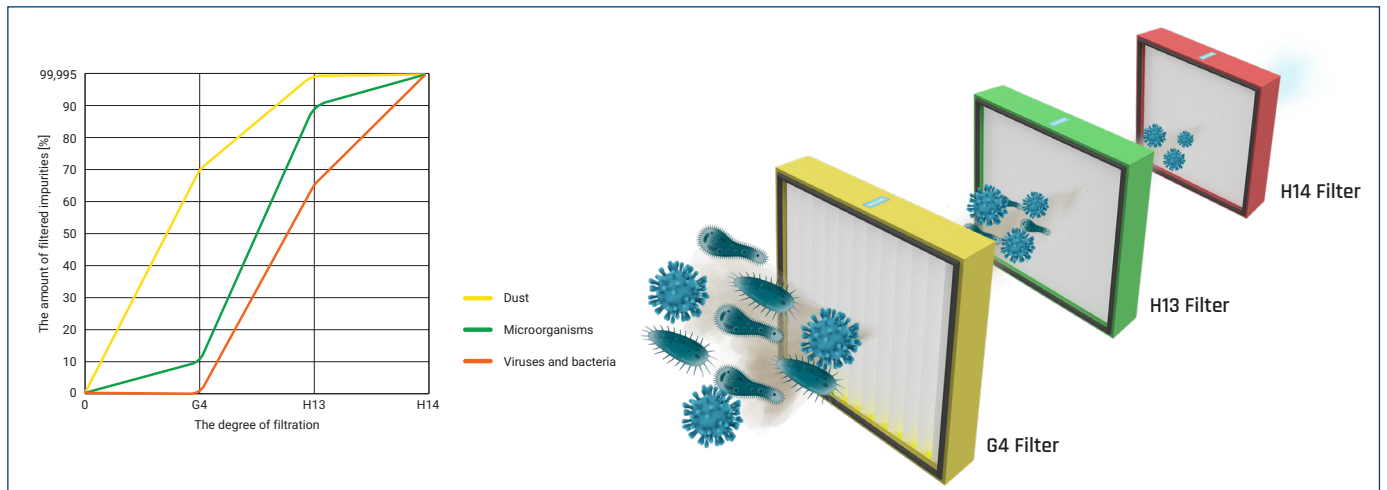
The device is equipped with UV-C lamp of **proven operation**. The lamp emit light of 253.7 nm wave length **not generating ozone**, effectively decomposing microorganisms and viruses caught on filters surface.

TECHNICAL CHARACTERISTICS

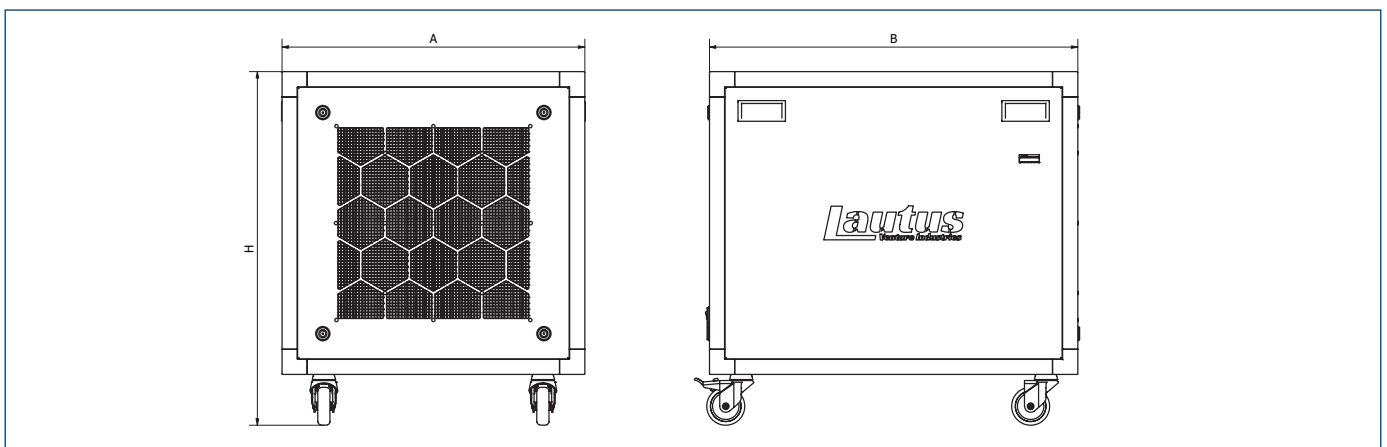
Typ	power consumption	setting	Airflow	acoustic pressure level*	weight	Voltage	Article number
	[W]	[%]	[m³/h]	[dB(A)]			
LAUTUS 50	40	20	200	45	44	230	70010640
	74	40	340	52			
	124	60	485	56			
	160	80	580	57			
	196	100	635	59			
LAUTUS 100	51	20	210	47	55	60,5	70010645
	95	40	420	55			
	158	60	665	58			
	204	80	860	62			
	250	100	970	69			

* measured from 1.5 m distance.

OPERATION OF FILTERS



DIMENSIONS [mm]



Type	A	B	H
LAUTUS 50	600	730	700
LAUTUS 100	750	730	850

Type	G4 Filter	H13 Filter	H14 Filter
LAUTUS 50	91020328	91020324	91020326
LAUTUS 100	91020329	91020325	91020327