



APPLICATION

Device is designed to clean air from particles of microorganisms, fungi, bacteria and viruses larger than 0,1 µm in closed areas where people reside, as like:

- reception desks, shops, pharmacies, offices, libraries, restaurants, as well as in industrial spaces such as mechanical workshops.

CONSTRUCTION

On objects made of copper, the persistence of bacterias and viruses is significantly shorter. Due to this at the inlet of the device and in the sealed chamber between the H13 and H14 filters, copper grids were used to accelerate the decomposition of microorganisms.

The device uses a 3-stage filtration level which consists of:

- I - pre-filter in the G4*, class, located right behind the inlet, whose task is to catch dust particles and dirt from the air,
- II - filter classified H13*, located behind the pre-filter and in front of the UV-C lamp, whose task is to filter the air from microorganisms, bacteria or fungi,
- III - H14 class* filter that is able to stop 99.995% of 0.1 µm particles such as viruses.

The sealed chamber consists of H13 and H14 filters and a UV-C lamp. Inside the chamber, the radiation of the UV-C lamp disintegrates the cells of microorganisms effectively fighting them inside the device. The side panels use LEDs informing the user about the operation of the UV-C lamp. The lamp works in intervals of one hour irradiation to the chamber, next the lamp is turned off for the next hour. The device meets the requirements of the PN-EN 62471 standard regarding the photobiological safety of lamps.

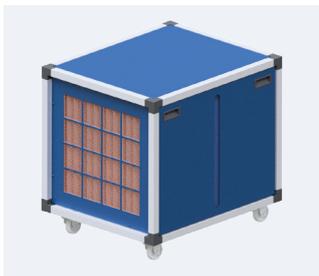
The intelligent control system allows for 4-stage airflow regulation.

The device is equipped with signaling pre-filter contamination, unsealing of the H14 filter and failure of the UV-C lamp. The whole is a modern structure made of painted aluminum sheet mounted on wheels ensuring easy transport.

ELECTRIC MOTOR EC

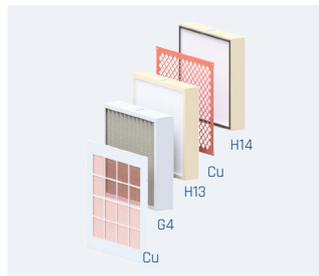
- Highly efficient motors with integrated EC technology ensure reduced demand for electricity (lower CO₂ emission), minimize operating costs.

* The filtration efficiency of the filters used in the device is defined by the standards PN-EN 779, PN-EN 1822-1, PN-EN 1822-4



Special execution

Painting in a color other than the standard one, consistent with the RAL palette.



Filtration and security

Filtration with three protected by copper partitions.



UV-C lamp

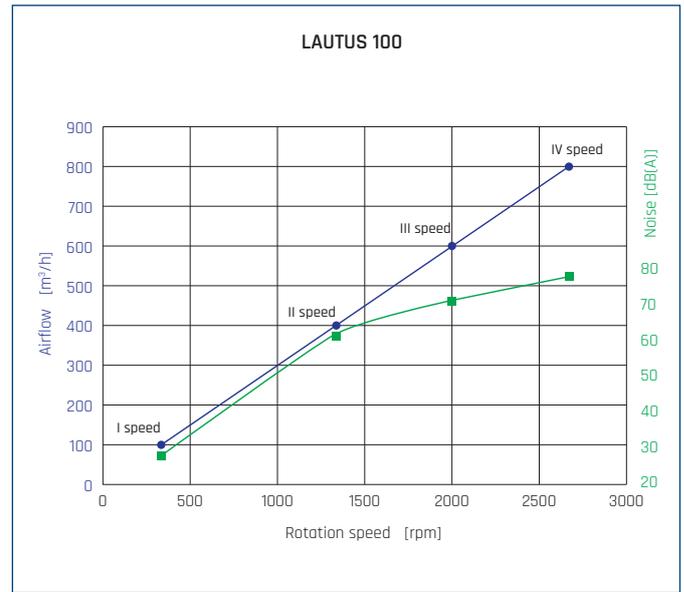
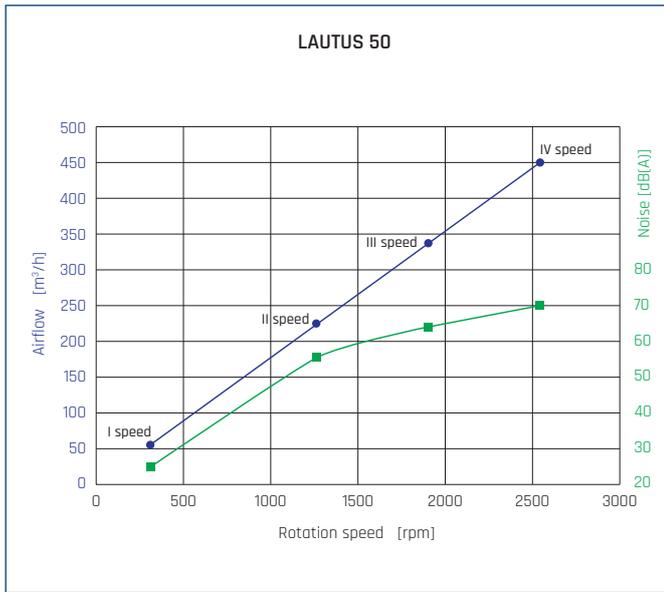
The device is equipped with a UV-C lamp, which destroys and deactivates microorganisms.

TECHNICAL CHARACTERISTICS

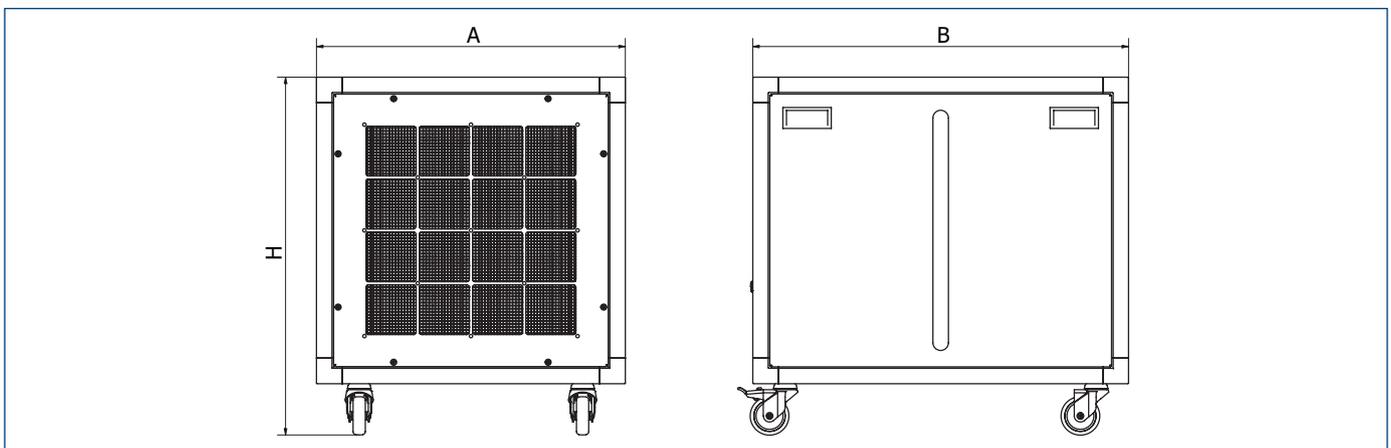
Type	airflow max	max absorbed power	current	voltage	sound pressure level*	weight	article number
	[m³/h]	[W]	[A]	[V]	[dB(A)]	[kg]	
LAUTUS 50	450	150	1,6	230	64	47	70010606
LAUTUS 100	800	250	2,7	230	74	60,5	70010607

* sound pressure measured at a distance of 1,5m from the fan at $q=2/3 \cdot q_{max}$.

PERFORMANCE CURVES

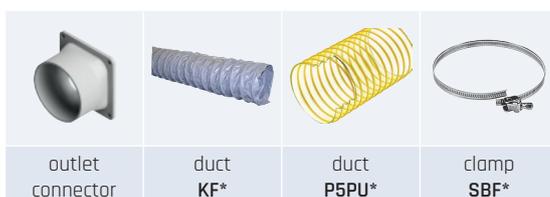


DIMENSIONS [mm]



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

ACCESSORIES



* For the proper operation of these accessories, an outlet connector is required