

SERIES 100

DESCRIPTION

SERIES 100, is a high-performance independent unit developed to eliminate 99,99% of all viruses and bacteria, being an effective solution to reduce the risk of infections (including COVID-19) in the interior space of public passengers transport vehicles. The efficient operation moves a high airflow, ensuring an adequate recirculation rate to maintain a low level of concentration of these aerosols with eventual viruses in the environment.



MAIN CHARACTERISTICS

- Eliminates 99,99% of bacteria and viruses;
- Developed and tested in partnership with an investigation team from the University of Coimbra (microbiology area, mechanical and electrical engineering);
- High air recirculation rate due to the high airflow moved (up to 160m³/h);
- Certified by an accredited independent entity;
- Low energy consumption;
- Does not require regular maintenance;
- Easy installation.

APPLICATIONS

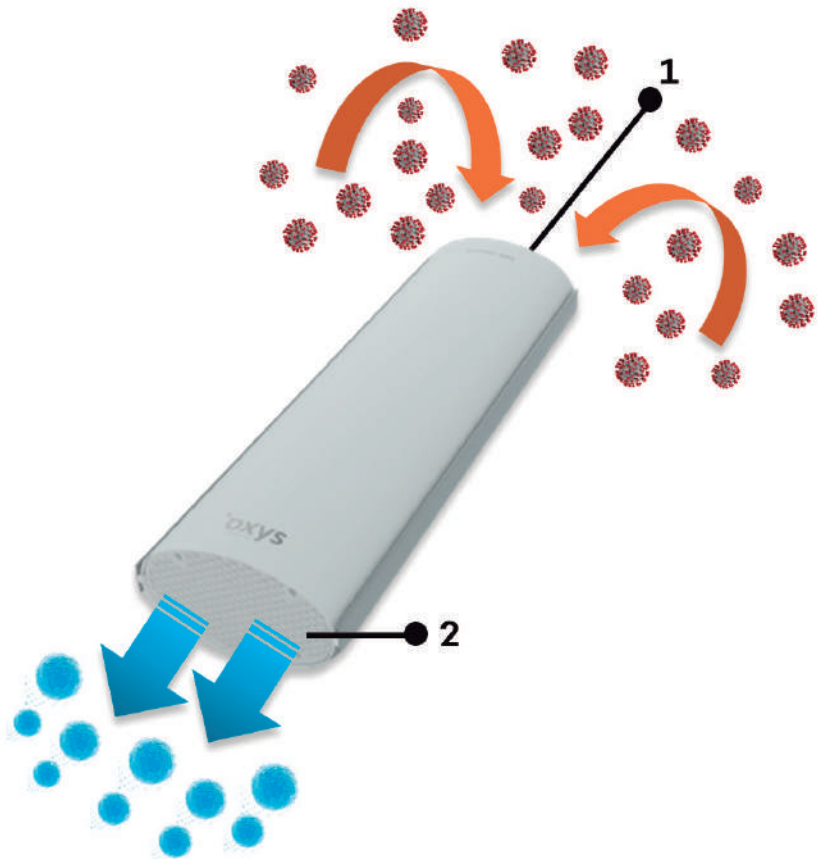
In general, inside all collective passenger transport, such as:

- Bus and Mini-Bus
- Train, Light-Train, Subway
- Ferry Boats

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OPERATION

1. Air entry grid
2. Air exit grid



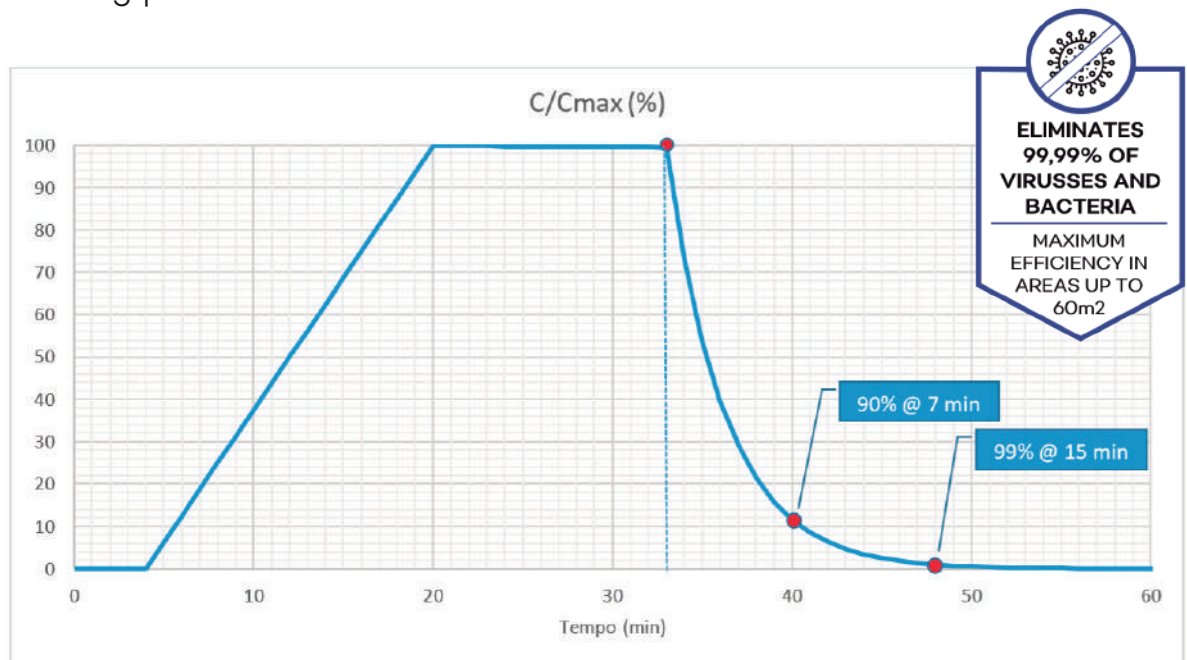
The equipment causes a continuous air movement all over the space, where's installed.

It vacuums the contaminated air through the entry grids, located at the bottom of the equipment, channeling to its inward, where sterilization occurs through the efficient installed technology. Posteriorly, the air, clean of contaminants, is returned to the environment through the exit grids located in the upper area of the equipment.

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PROVEN EFFECTIVENESS

A multidisciplinary investigation team from the Faculty of Medicine and the Faculty of Science and Technology of the University of Coimbra, with knowledge in microbiological, mechanical, and electrical engineering, lead rigorous tests on the OXYS® Clean Air equipment, with the objective of determining the units performance in reducing the concentration of the contaminating particles.



The figure presented shows an image corresponding to an enlargement of the concentrations temporal evolution graphic.

The decay phase of the contaminant concentration started after 33 minutes, the moment at which the equipment is activated. The results show that after 7 minutes, there was a reduction to 10% of the initial value, and after 15 minutes a reduction, to less than 1% of the initial value, that is, an efficiency rate of 99% in eliminating the viral load present in the tested space, thus demonstrating the effectiveness of the technology used in OXYS® Clean Air equipment to eradicate all traces of the virus.

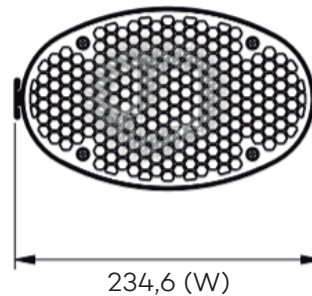
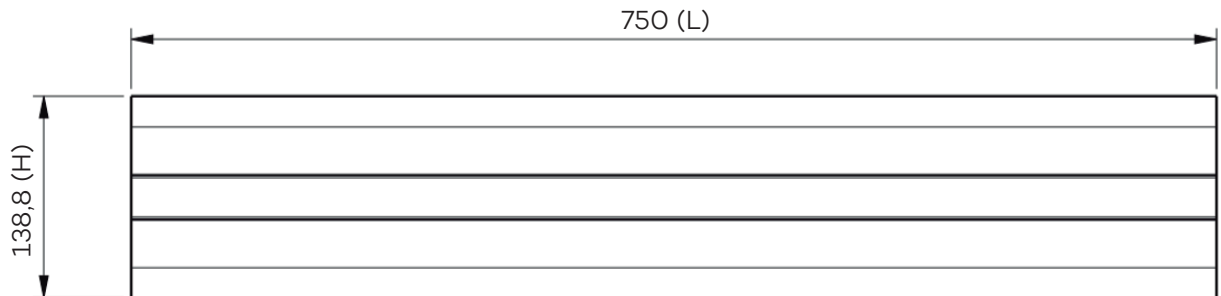


OXYS® Clean Air

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TECHNICAL DATA



				SERIES 100
Application				Mounting brackets
Structure	Color			White / Anthracite
Dimensions	Unit	Height (H)	mm	138,8
		Lenght (L)	mm	750
		Width (W)	mm	234,6
Weight	Unit		kg	13
Noise			DbA	Approx. 40
Applicable division area			m ²	up to 60
Ventilation operation	Air flow		m ³ /h	160
Equipment power			W	56
UV-C lamp lifetime			h	9000
Electric supply	Phase			-
	Frequency		Hz	-
	Voltage		V	-
Notes	1 - The applicable division area indicates the ideal dimensions for the equipment to fulfil it's functions with maximum efficiency.			2 - Operating noise levels are the average of the values measured 1 meter from the unit.