

# Aria Buona

*Air sanitizing system to fight Covid19*



This system thought by SAIMA to fight viruses and bacteria utilizes a special technology able to replicate and improve the solar radiation natural purifying action.

**ARIA BUONA** is a UV-C light generator crossed by an air flow and special titanium dioxide filters. The air, in contact with UV-C light, generated by lamps and through the photocatalysis process, generated by the special titanium dioxide treatment, is sanitized by any type of virus, including Covid-19.

Any closed environment need to be sanitized, especially schools, gyms, doctors' surgery and hospitals. Each device includes a flow cell that sucking in contaminated air and emitting sanitized air. Such an action is totally harmless to people inside the environment during which takes place this same sanitizing process.

## ***Sanitization system***

Titanium dioxide is considered a very effective antimicrobial agent. Therefore, the sanitization can be continuously done, **24 hours a day**.

UV-C radiation is bound inside the chamber, but the ventilation system transports the aerosols contained in the air and it puts them in contact with the sanitizing light. The microorganisms in the part of aerosols called "nuclei" are deactivated as soon as they pass through the chamber, thanks to a specific wavelength of UV-C light. The effectiveness of the titanium dioxide treatment has been successfully tested on various types of bacteria and spores, some of them are more resistant to UV-C radiation than the bacteria belonging to the Coronavirus family. Different tests performed in a UNI CEI EN ISO/IEC 17025:2018 accredited laboratory certify the effectiveness of ARIA BUONA on a wide range of bacteria, viruses and other microorganisms including Covid-19. In compliance with ISO standard ARIA BUONA percentage of effectiveness is over 99.99%, **besides it is classified according to IEC 60335-2-65 on air purifiers.**

**SAIMA**

## Data Sheet

<b>ELECTRICAL SYSTEM</b>	
Voltage	220 VAC +/-10% 50/60 Hz
Maximum absorbed power	150 W
<b>STRUCTURE</b>	
	- Brushed steel - Painted steel
<b>PERFORMANCES</b>	
Air flow	150 m <sup>3</sup> /h
Working Temperature	-10°C / +55°C
Maximum humidity	85% (without condensation)
Degree of protection	IP20
<b>DIMENSIONS</b>	
Dimensions (mm)	Device Size: 96x120x560 Dimensions with table stand: 200x250x640
Weight (Kg)	≈ 5,5 Kg
Sanitation Capacity	20 m <sup>2</sup>
MTRR	1 hours
Test	Tested according to the rule ISO 15714
UV-C containment test	IEC 60335-2-65:2002 for the containment of UV-C emissions
CE	In compliance with the european standard



## Performances

1. UV-C emission with wavelength calibrated to 254nm.
2. Sucked air instantaneous sanitization thanks to an internal mirror reflection system made in aluminum Mirror Silver.
3. Automatic temperature regulation by UV-C tube microcontroller able to keep the system maximum efficiency under any environmental condition.
4. Titanium dioxide treatment.

## Safety

1. Using UV-C lamps (Ozone Free).
2. Closed chamber technology to prevent any individuals direct contact with UV-C rays.
3. In compliance with the requirements of applicable Standards on electrical safety and management of UV-C sources, including maintenance.
4. Tested according to ISO15714 requirements and in accordance with IEC 60335-2-65 rule (Air Purifier).

