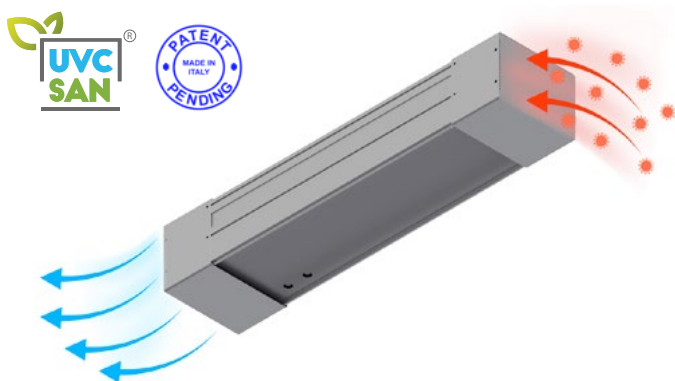


# UVCSAN - AIR PURIFICATION SYSTEM



**UVCSAN** is a completely safe system designed by **VDGLab**, ideal for air purification from bacteria and virus, thanks to **LED** technology and a smart design. Our product is based on **UVC-LED** short wavelength emitting, safe for the environment compare to mercury lamp.

Compared to **VDGLab** standard cleaning procedure, **UVCSAN** lamp is able to inactivate 99,9% of microorganism by destroying their DNA.

## ORDERING CODE

Lamp Code	Type	Lenght	White light	TiO <sub>2</sub> Catalyst
UVCSAN				

### TYPE

- 01 = Air
- 02 = Water

### LENGHT

- 460 mm
- 690 mm
- 920 mm

### WHITE LIGHT

- 1 = Yes
- 2 = No

### TiO<sub>2</sub> CATALYST

- 1 = Yes
- 2 = No



1. Virus, bacteria, microorganisms abatement, scientifically tested.



2. Complete air purification thanks to powerful aspiration system.



3. Automatic start and rapid purification cycle.



4. Safe functioning with people.



5. Silent mode available.



6. MADE IN ITALY

### CERTIFICATION



### COMPLIANCE



### MEDICAL DEVICE



n° 2098219



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# UVCSAN - AIR PURIFICATION SYSTEM

## TECHNICAL SPECIFICATIONS AND DRAWINGS

### KEY FEATURES

- Based on LED technology
- Easy to install
- Long life time >10 years life expectancy
- Continuously operating

### MECHANICAL FEATURES

- UVC-resistant materials
- Fan rated flow: 40 m<sup>3</sup>/h
- Turbulent flow for maximizing UVC exposure
- Dust filter at air output
- Operating temperature: -30 °C to + 60 °C
- Storage temperature: -40 °C to + 80 °C
- Totally sealed enclosure
- Degree of protection: IP44

### ELECTRICAL FEATURES

- Power supply: 110/220 VAC, 12 VDC
- Power consumption:
  - 30W, version 460
  - 60W, version 690
  - 90W, version 920
- Optional floodlight power consumption:
  - 6W, 1100 lm version 460
  - 12W, 2200 lm version 690
  - 18W, 3300 lm version 920
- LED fedded at constant current

### ECOLOGICAL FEATURES

- Environmentally friendly
- Mercury-free lamp
- More efficient than standard cleaning methods

### SAFETY FEATURES

- No direct UVC radiation exposure
- 99,9% microorganism destroyed
- Smart functioning

### APPLY TO

- Lift
- Hotel room
- Office
- Classroom
- Hospital
- Trains, Buses, Airports
- Ambulance
- Laboratory
- All kind of closed area

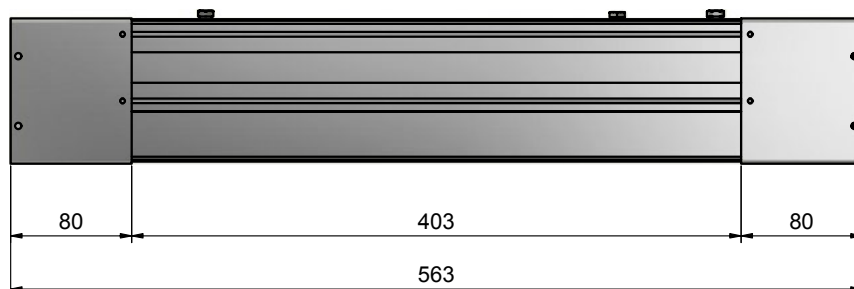
### WHITE LIGHT FEATURES

- Flux: 1100 lm version 460
- CRI: 80
- Correlated color temperature (CCT): 4000K
- Long life-time: >50,000 hours

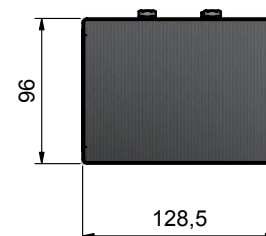
### CERTIFICATION

- CE Marking

### FRONT VIEW



### SIDE VIEW



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# UVCSAN - AIR PURIFICATION SYSTEM

## TECHNICAL SPECIFICATIONS AND DRAWINGS

### UV-C LED TECHNOLOGY

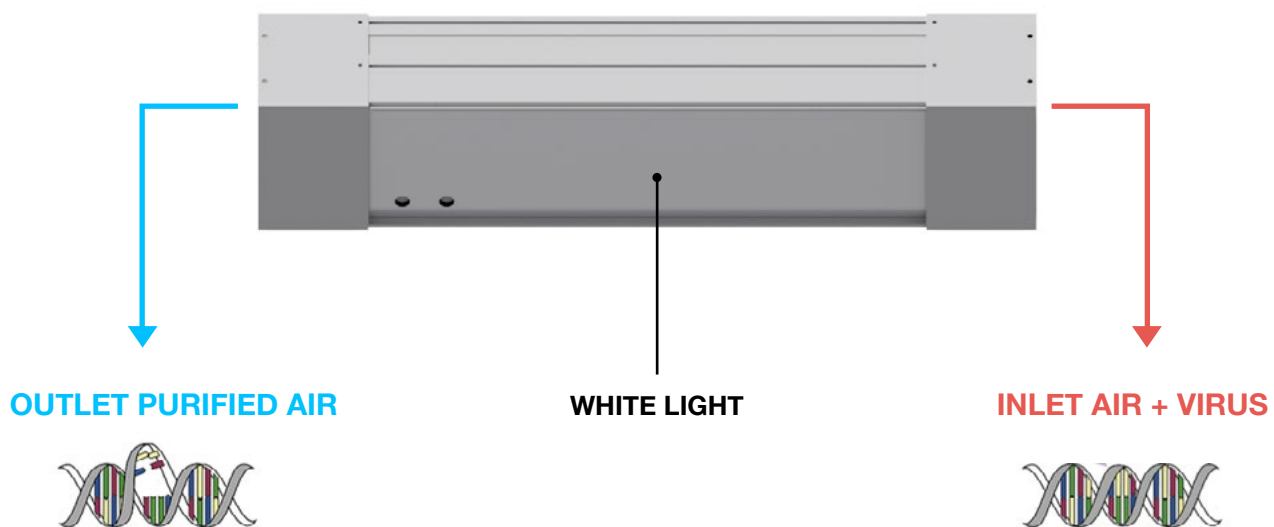
According to the International Association, the germicidal region important for the air disinfection is a portion of **UV** spectrum between 200 and 300 nm.

**LED** technology emits a selected short wavelength able to kill or inactivate microorganisms such as bacteria and virus by destroying their **DNA**.

This technology has several advantages compared to common Hg germicidal lamps:

- Energy efficiency
- Hg free according to environmental principles set at Minamata Convention
- Instantaneously on/off technology

Thanks to **VDGLab** wide experience, we designed an innovative system based on **LED** technology



### INNOVATION

- Totally sealed enclosure: no external hazardous **UV-C** irradiance
- In case of unwanted enclosure openings (which could cause damage for users) electrical switches are provided, to completely inactivate power supply
- SMART system: fan speed and flow controlled by microprocessor
- Optional integrated white led sanitizing system
- Optional  $\text{TiO}_2$  integrated catalyst system
- UV-C resistant materials
- Optional floodlight for ambient illumination
- Filter for dust outlet



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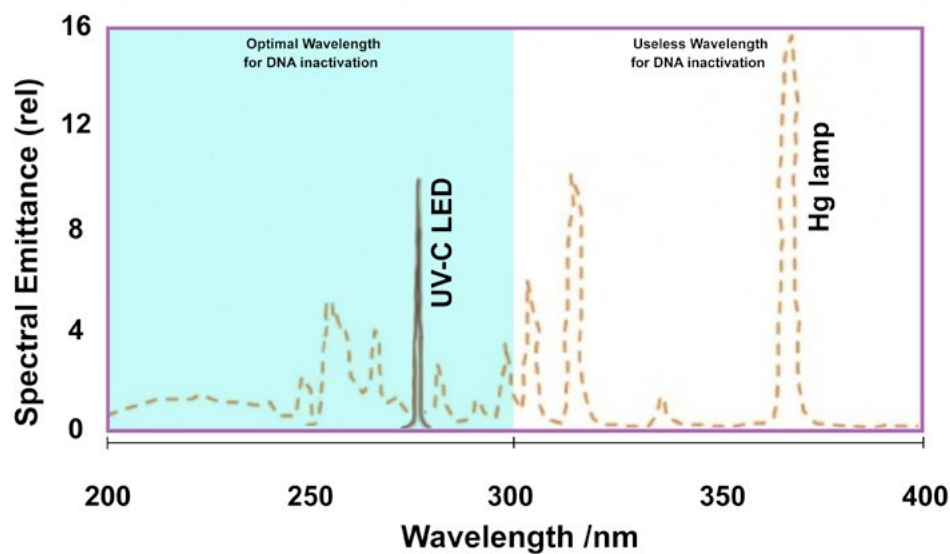
# UVCSAN - AIR PURIFICATION SYSTEM

## TECHNICAL SPECIFICATIONS AND DRAWINGS

### ENVIRONMENTAL SUSTAINABILITY

- Mercury-free lamp: **VDGLab UVCSAN** system uses **LED** technology
- Focused light emission: **VDGLab UVCSAN** system emits a narrow bandwidth around 280 nm, correct wavelength for virus DNA inactivation which means lower energy consumption up to 80%. As you can see in the graph below, a commercial Hg lamp has a broadband emission spectrum, especially in a range useless for disinfection leading to a energy waste.

On the contrary **UV-C LED** has a power emission focused on wavelength specific for **DNA** inactivation.



Comparison between UV-C LED narrow emission and Hg pressure lamp broadband emission

- Easier waste disposal: **VDGLab UVCSAN** device materials are not harmful to the environment
- 100% recyclable materials used
- Environmentally—friendly: **VDGLab UVCSAN** system is environmentally compatible, due to low energy consumption, safer materials, absence of poisonous elements

### INTERNATIONAL UV-C SAFETY GUIDELINES

**VDGLab UVCSAN** system is in compliance with International UV-C Safety Guidelines, on the subject of electrical, thermal, mechanical, human exposure to electromagnetic fields (EMF) and photobiological safety requirements provided in IEC and UL standards.