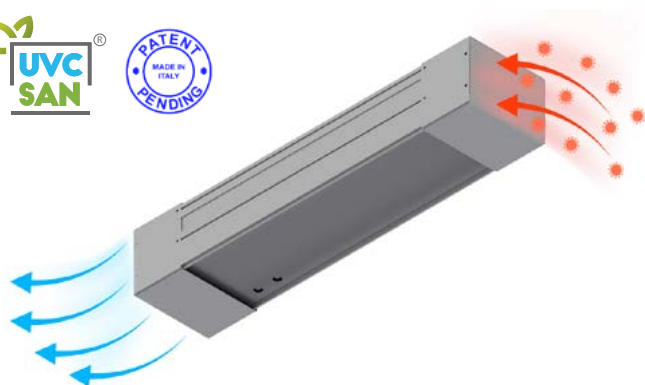


UVC SAN® - AIR PURIFICATION SYSTEM









UVC SAN® 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 standard cleaning procedure, **UVC SAN®** lamp is able to inactivate 99,9% of microorganism by destroying their DNA.

ORDERING CODE

Lamp Code	Installation	
UVC SAN		INSTALLATION - T = Tower - W = Wall

KEY POINTS

- | | | |
|--|---|---|
| 
1. Virus, bacteria, microorganisms destruction, scientifically tested. | 
2. Complete air purification thanks to powerfull aspiration system. | 
3. High reliability |
| 
4. Safe functioning with people. | 
5. Silent mode available. | 
6. MADE IN ITALY |

CERTIFICATION



COMPLIANCE



MEDICAL DEVICE



n° 2098219

UVC SAN[®] – 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 m³/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

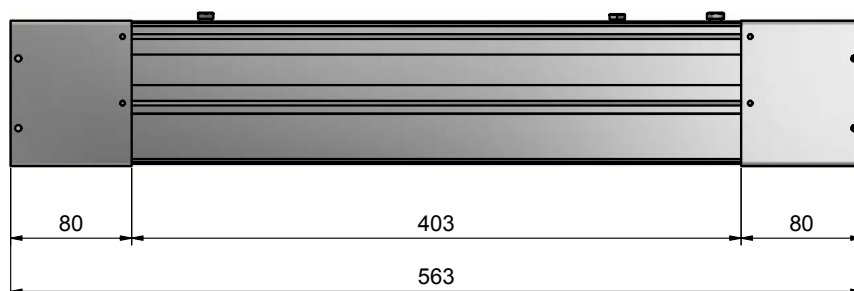
WHITE LIGHT FEATURES

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

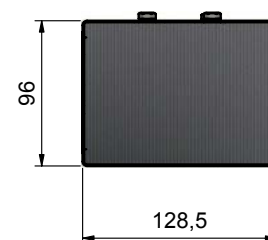
CERTIFICATION

- CE Marking

FRONT VIEW



SIDE VIEW



UVC SAN[®] – AIR PURIFICATION SYSTEM

TECHNICAL SPECIFICATIONS AND DRAWINGS

UV-C LED TECHNOLOGY

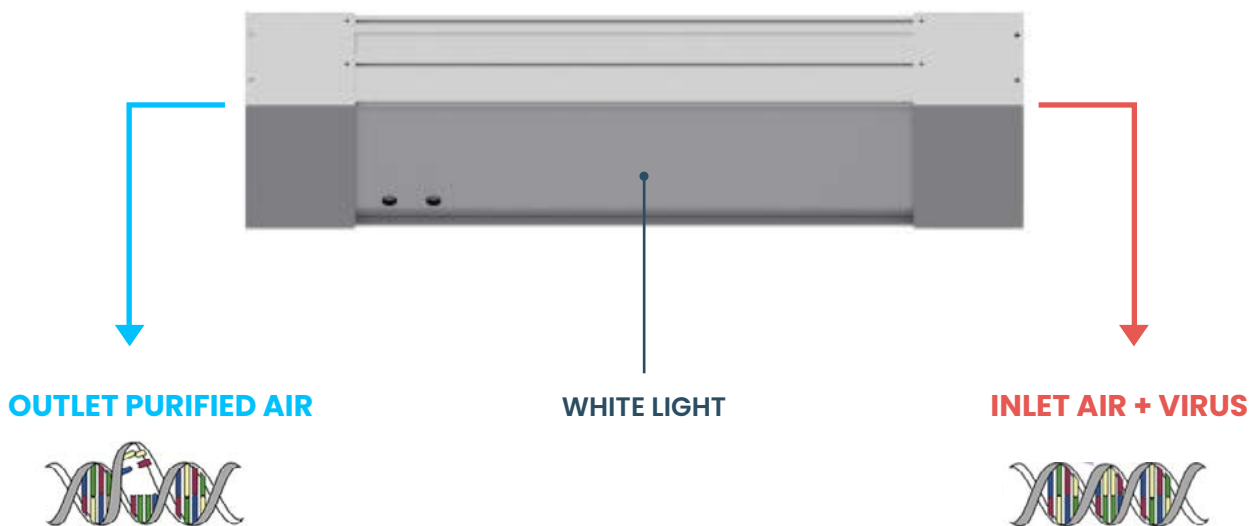
According to the International Association, the germicidal region important for the air disinfection is a portion of **UV** spectrum between 200 and 300 nm.

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 TiO₂ integrated catalyst system
- UV-C resistant materials
- Optional floodlight for ambient illumination
- Filter for dust outlet

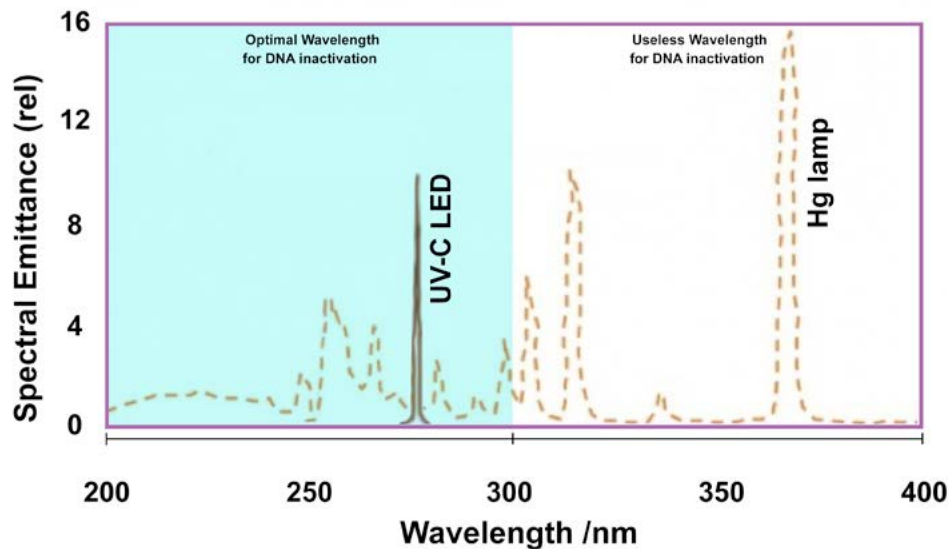
UVCSAN® – AIR PURIFICATION SYSTEM

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.