



for a **safer** life

# UV LAMPS

**PHILIPS**

UVC Technology  
Air disinfection

# A RELIABLE PROTECTION IS ESSENTIAL

Airborne viruses and bacteria, such as tuberculosis and coronaviruses, contaminate the air of closed places and can represent a serious health threat.

The UVGI lamp (germicidal ultraviolet irradiation) is a proven infection control measure. A powerful system of upper-air disinfection in closed rooms which can generate an effect similar to 10-20 ACH (air changes per hour) significantly improving the air quality.

The use of parabolic reflectors and non-reflective louvers allows to project a germicidal UV rays beam in the upper area of the room only, leaving the lower part of the room completely safe.

The room's natural or artificial ventilation will then allow the contaminated air of the lower layers to rise and be sanitized in the upper part of the environment through UV radiation. This method is known as irradiation area or irradiation of the upper-air layers.

The UVGI lamp not only stands out because it allows you to create a system that ensures a high level of UVGI output in the upper part of the room and safety in the lower one, but also for its reliability, in addition to its elegant design. Furthermore, the device is easy to install and maintain. All Safe in® appliances are designed considering these features.

We will guide you through the design, installation process and maintenance of the lamps. We offer direct support for these operations and training for staff to learn system maintenance and UV emissions measurement.

With our products, services and 25-years' experience, we can guarantee you a safe and effective UV lamp in the long-term.



**WATCH  
THE VIDEO!**

# UV EFFECTIVENESS

Ultraviolet light is invisible to the naked eye. It can be divided into three categories: UVA, UVB and UVC. UVA rays have a spectrum between 315 and 400 nm, UVB between 280 and 315 nm and UVC between 100 and 280 nm.

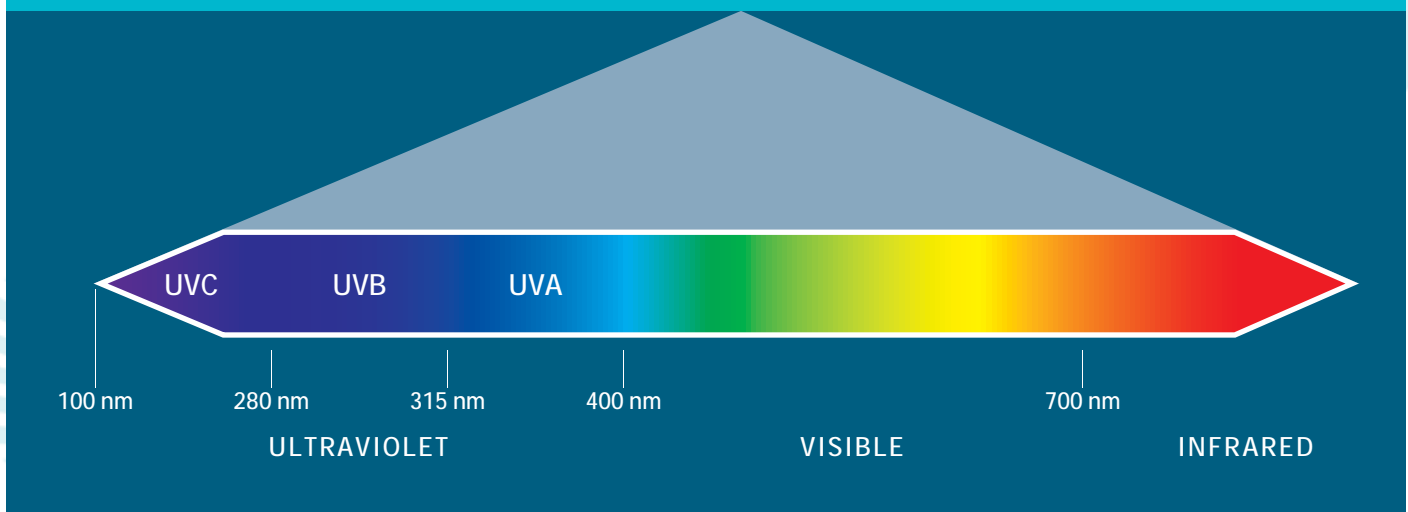
UVC radiation is known for breaking viruses, bacteria, fungi and spores' DNA sequences, making them harmless. UV radiations can be used for multiple purposes in the air and water treatment, as their focal point is to annihilate microorganisms without using chemicals.

UVC rays' effects are known for more than 100 years; therefore they are used worldwide in various areas and, in particular, for prevention of lung diseases caused by Mycobacterium Tuberculosis (TB).

## WHY USING UVC RAYS FOR AIR DISINFECTION?

- Effective against all kinds of microorganisms: viruses (Covid-19), bacteria, fungi
- Low investment and maintenance costs
- Easy to use, safe and respectful of the environment
- Special glass lenses block 185nm radiations that produce ozone

## LIGHT SPECTRUM



## HOW UV-C RAYS WORK?



THE MOLECULAR STRUCTURE OF DNA IS BROKEN DOWN, MAKING MICROORGANISMS HARMLESS

# DAYTIME LAMPS



## LAMPS SERIES APF-CM

Ceiling system entirely in aluminum with a 360 ° range of action.

**code LUVCM41** - with 4x9W lamps



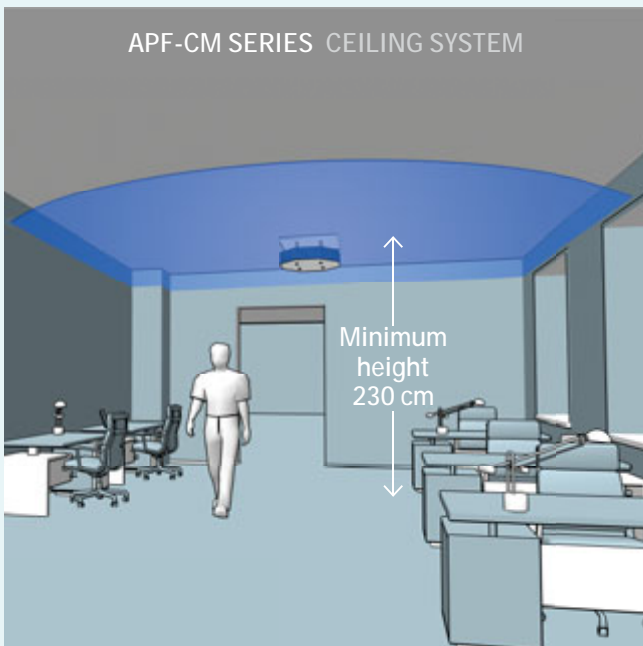
## LAMPS SERIES APF-WM

Wall system entirely in aluminum equipped with adjustable grids with 180 ° range of action. It can be assembled in pairs on a double-sided ceiling support.

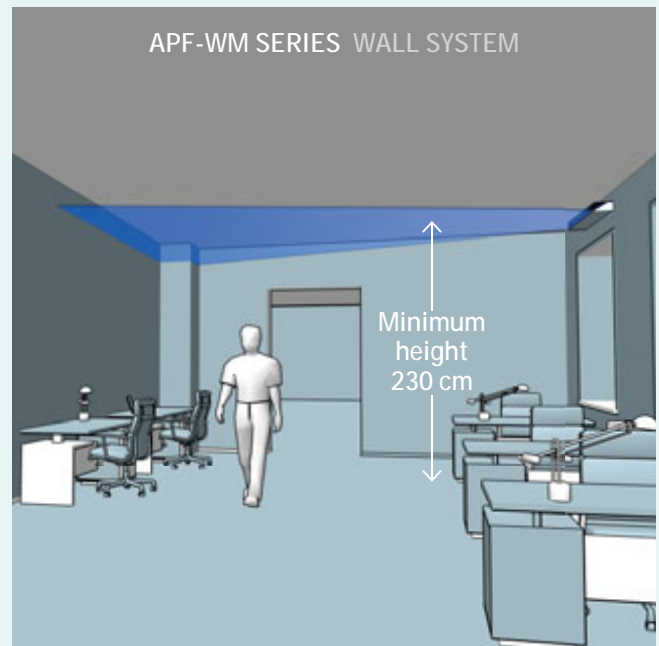
**code LUVWM52** - with 1x30W lamps

## DAYTIME LAMPS WORKING DIAGRAM

APF-CM SERIES CEILING SYSTEM



APF-WM SERIES WALL SYSTEM





# NOCTURNAL LAMPS

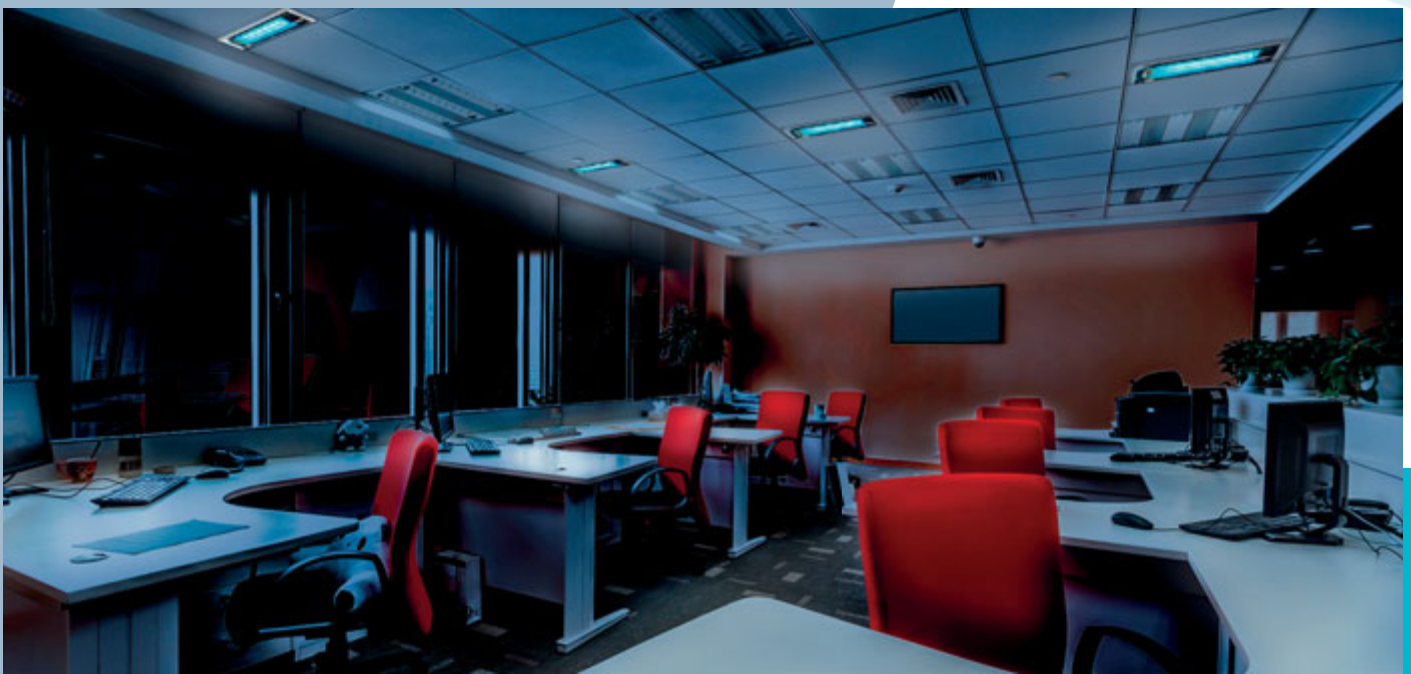
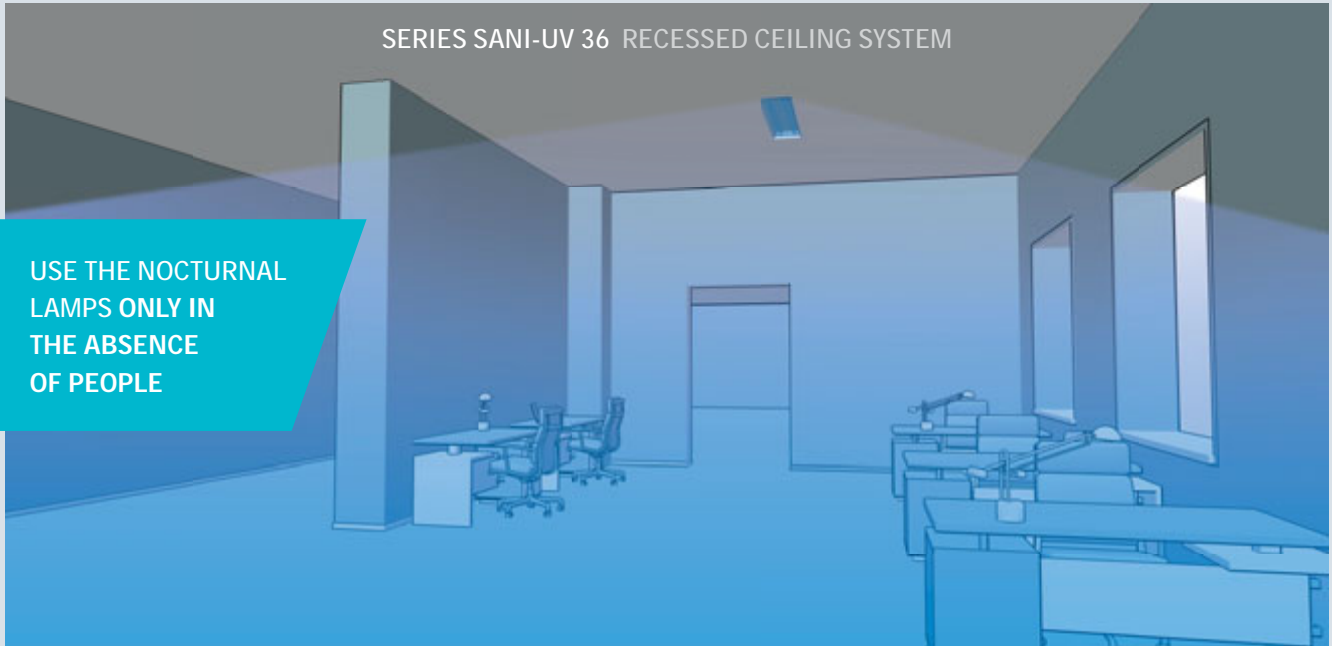
## LAMPS SERIES SANI-UV 36

Recessed ceiling system entirely in aluminum that **can only be used in the absence of people.**  
code LUVSM61 - with 1x36W lamps

## NOCTURNAL LAMPS WORKING DIAGRAM

SERIES SANI-UV 36 RECESSED CEILING SYSTEM

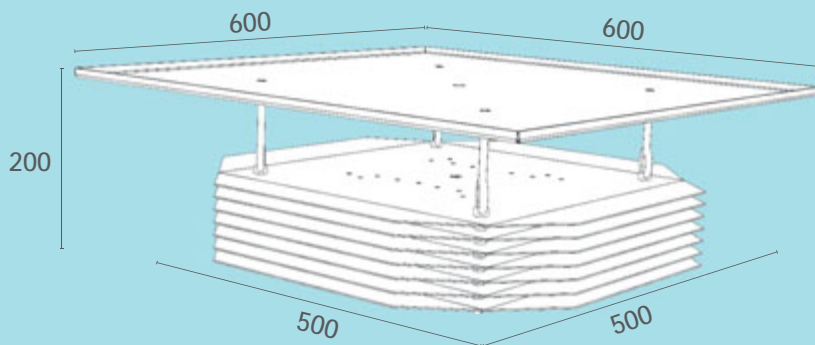
USE THE NOCTURNAL LAMPS ONLY IN THE ABSENCE OF PEOPLE



# DAYTIME LAMPS



## LAMPS SERIES APF-CM

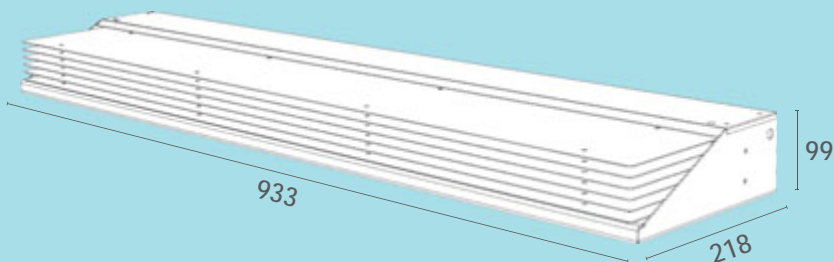


Usable **IN THE PRESENCE OF** people

They eliminate viruses and bacteria suspended in the air

Maximum effectiveness level

## LAMPS SERIES APF-WM

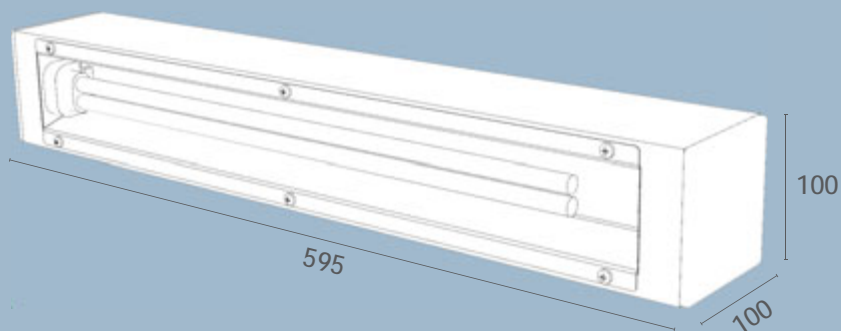


UV RAYS PROTECTED ENVIRONMENT

# NOCTURNAL LAMPS



## LAMPS SERIES SANI-UV 36

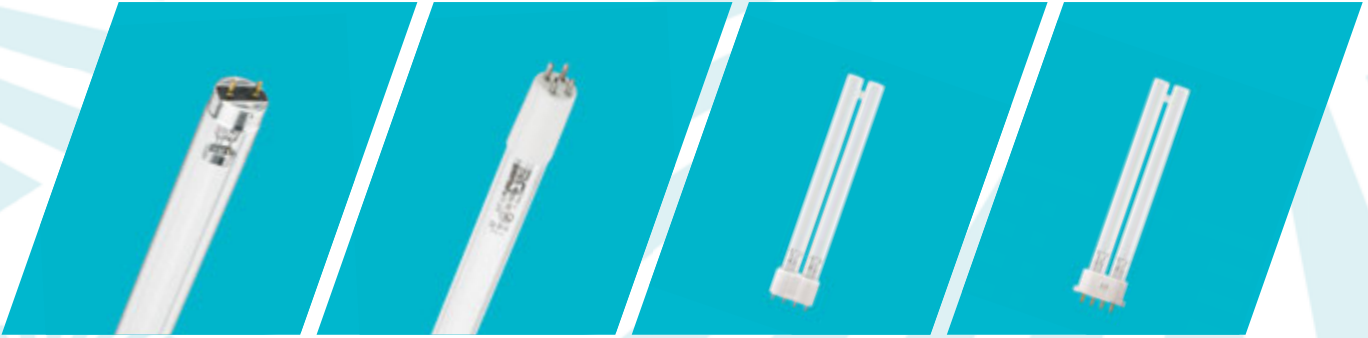


Usable **ONLY IN THE ABSENCE OF** people

They sanitize thoroughly both the air and surfaces

Maximum effectiveness level

# LAMPS FEATURES



## PHILIPS SANITIZING LAMPS

Philips UV sanitizing lamps' system is a safe, sustainable and reliable solution. Ideal for installation on ventilation ducts and on individual disinfection units placed in the walls' upper area. They help protect against airborne pathogens by creating, thanks to the light, a safe and healthy environment. Philips offers a whole range of UV lamps and devices for air and water disinfection.



## HIGH QUALITY PERFORMING LAMPS

Philips has a unique and fully automated plant for assembling the lamps. This process allows using a specifically patented technology with guaranteed control of the process itself and the products by operators. Lamps that do not exactly meet the quality standards are automatically discarded by the system, so that a product with high quality and efficiency standards is guaranteed.

## LESS MERCURY CONTENT FOR A HEALTHIER ENVIRONMENT

Philips has always stood out for its efforts in reducing the mercury needed for fluorescent lamps. Thus, it has created a unique capsule dosing system that allows to use the minimum amount of mercury needed, while maintaining high quality standards, contributing in this way to creating a healthier environment for everyone.



“Independent studies demonstrated the efficiency of the zone irradiation system by including it into typical infection control systems.”

“A sanitizing system with these lamps, if well designed and well maintained, it will effectively prevent the transmission of diseases caused by microorganisms floating in the air.”





for a **safer** life

via Alessandro Volta, 1  
20090 Cusago (MI)

☎ TEL 02 90.39.90.1

➡ WEB [www.safein.it](http://www.safein.it)

✉ MAIL [info@safein.it](mailto:info@safein.it)

