

Technical data GERMIPROTECT 4x55

Supply voltage	230 V, 50 Hz
Power consumption	240 W
UV-C bulbs (Philips/Osram)	55 W (PL-L TUV / HNS-L)
Quantity of the UV-C bulbs	4
Useful lifetime of the UV-C bulbs	9 000 h
Fans capacity / Device capacity	260/100 m ³ /h
Cubage of disinfected room	250 m ³
Effective area of the lamp	100 m ²
Anti-shock protection class	I
Ingress Protection Code	IP 20
Dimensions [mm]:	
Lamp body dimensions (L x W x H)	940 x 350 x 250
Overall dimensions GP 4x55 N, wall-mounted (L x W x H)	940 x 292 x 350
Overall dimensions GP 4x55 S, ceiling-mounted (L x W x H)	940 x 350 x 286
Overall dimensions GP 4x55 P, on mobile stand (L x W x H)	940 x 350 x 900



GERMIPROTECT



UV-C flow germicidal lamp for large volume rooms

The germicidal effect of the UV-C radiation is the result of the photochemical reaction triggered by photons absorption by nucleic acids of the cells. This reaction destroys and inactivates DNA of microbial cell.



250 m³
disinfected cubature



220 W
UV-C bulbs power



95%
microorganisms reduction within 2 h



9000 h
useful lifetime of the bulbs

Areas of application:

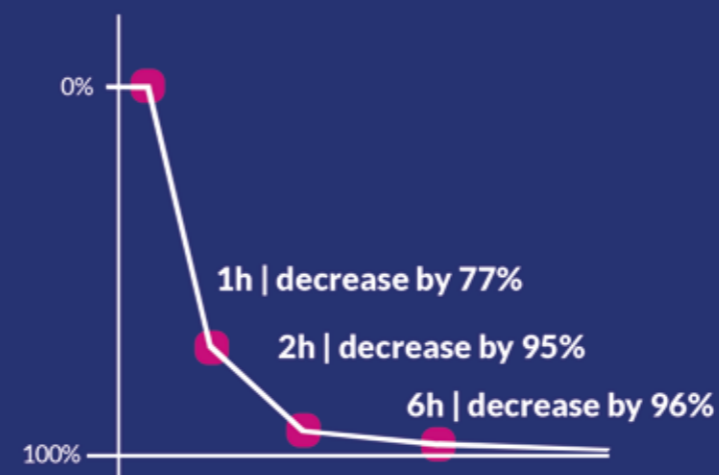
- open space offices
- hotels
- cinemas
- gyms
- restaurants and kitchens
- railway stations
- waiting rooms and various crowded areas



Over 25 years of experience in disinfection by means of UV-C irradiation

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GERMIPROTECT 4x55 germicidal effectiveness



The UV-C flow germicidal lamp GERMIPROTECT is intended for use in large-volume rooms such as: open space offices, hotels, cinemas, gyms, restaurants, kitchens, railway stations, waiting rooms and various crowded areas.

Effective improvement of microbial purity

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GERMIPROTECT

GERMIPROTECT effectiveness confirmed by scientific laboratory testing*

*download from ultraviol.pl/en

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ULTRAVIOL is an experienced manufacturer and supplier of medical equipment. What let us to expand the range of production to a new line of UV-C flow germicidal lamps for industrial use is over 25 years of our experience. The devices manufactured by ULTRAVIOL have been working in thousands of medical units, hospitals and healthcare facilities both in Poland and Worldwide. Now more and more of our UV-C flow germicidal lamps are used to improve microbial purity in industry. ULTRAVIOL is a regular participant in POLAGRA-TECH fair in Poznan.



Disinfection with UV-C rays

Ultraviolet (UV) radiation is classified as electromagnetic radiation, similar to X-rays, radio waves and visible light.

For practical purposes the UV spectrum has been divided into three types:

- **UV-A** long wave band radiation 400 nm–315 nm
- **UV-B** medium wave band radiation 315 nm–280 nm
- **UV-C** shortwave band radiation 280 nm–100 nm

UV-C radiation irreversibly deactivates all viruses, bacteria, fungi and microorganisms.

UV-C radiation of the wave-length range 250-270 nm has a strong germicidal effect scientifically proven by numerous researches. This kind of shortwave band radiation is high energetic. The energy of photons absorbed by nucleic acids cause disruption of DNA and RNA molecular bondings, which cause permanent disactivation of the microorganisms.



How do the UV-C flow germicidal lamps work?

Contaminated air is drawn by a fan into the disinfection chamber. The UV-C radiation intensity and the time during which the air remains in the disinfection chamber are selected so that the air blown out from the lamp is practically free of microorganisms.

It should also be noted that the forced flow of the air results in its smooth circulation and cause disinfection of the air in the whole room. This is a safe way to get rid of viruses, bacteria, molds and fungi from the air.



WALL-MOUNTED



CEILING-MOUNTED



ON MOBILE STAND

Benefits of UV-C flow germicidal lamps for industrial use

- Enable intensive air disinfection during personnel presence - entirely safe for people
- Irreversibly destroy bacteria, viruses, fungi, moulds, yeasts and other microorganisms present in the air
- Reduce the possibility of secondary infections in the production process
- Create a kind of barrier effectively preventing from infections spreading and developing
- Microorganisms do not resist and immunize to UV-C irradiation
- Four UV-C tubes of total power of 220 W and optimized air flow
- Low maintenance costs
- Easy installation and usage



UV-C

WITHOUT UV-C

The greatest germicidal effect is achieved at radiation wavelengths between 250 and 270 nm

