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

Areas of application:

- food procesing industry
- pharmaceutical industry
- cosmetics industry
- herbal industry
- labolatories and pharmacies
- vet cabinets
- railway stations, hotels, cinemas, restaurants, kitchens, gyms, waiting rooms, lobbies and various crowded areas

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

ULTRAVIOL

GERMIPROTECT

GERMIPROTECT effectiveness

confirmed by scientific laboratory testing*

*download from ultraviol.pl/en

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WYD. GP/09/2021/EN

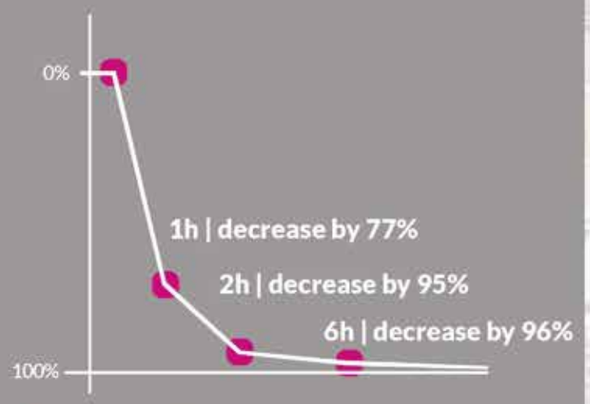
GERMIPROTECT

UV-C flow germicidal lamp for industrial use

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 m^3 disinfected cubature
- 220 W UV-C bulbs power
- 95% microorganisms reduction within 2 h
- 9000 h useful lifetime of the bulbs

GERMIPROTECT 4x55 germicidal effectiveness



GERMIPROTECT UV-C flow germicidal lamp for industrial use disinfects the air in the rooms, where processes of food, cosmetics, pharmaceuticals etc. manufacturing, storing or packaging are carried out. GERMIPROTECT is intended for use in the rooms and locations where the highest level of microbial purity is required.

Effective improvement of microbial purity in production processes

ultraviol.pl/en

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.

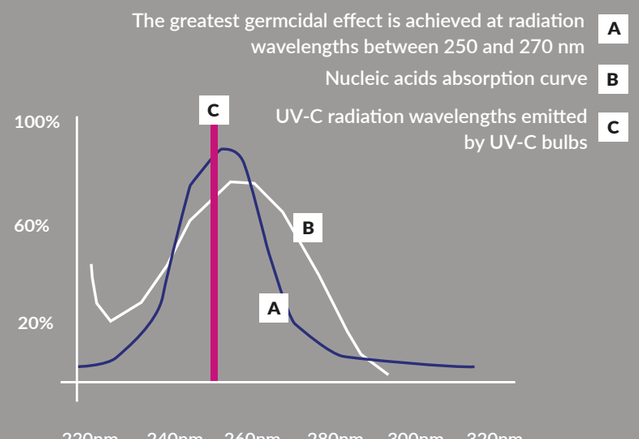
Disinfection with UV-C rays

Ultraviolet (UV) radiation is classified as electromagnetic radiation, similary 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 energic. The energy of photons absorbed by nucleic acids cause disruption of DNA and RNA molecular bondings, which cause permanent disactivation of the microoragnisms.



WALL-MOUNTED

CEILING-MOUNTED

ON MOBILE STAND

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.

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