

THE LIGHT  
OF HYGIENE

**ZAPP!**



ENGINEERS OF LIGHT

UV-C AIR STERILIZER




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**Waldmann**

# THE LIGHT OF HYGIENE



## ZAPP! UV-C AIR STERILIZER

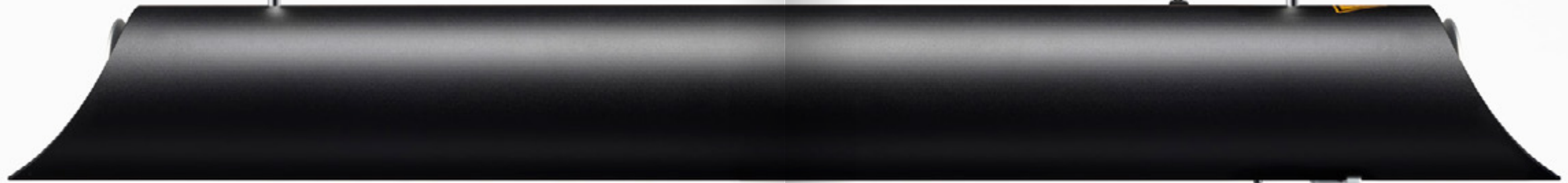


Light with ultra-short wavelengths damages the genetic material of microorganisms, which die off in a flash. The ZAPP! air purifier uses UV-C to remove aerosol particles from the air. In a pandemic or during the usual flu wave.

Bye-bye viruses.  
Bye-bye bacteria.  
Bye bye fungi.

# POWERFUL EFFECT, ELEGANT SHAPE

Not only effective, but also beautiful. Timeless design and high-quality materials also integrate ZAPP! into rooms where more emphasis is placed on the design language of components used.



## **FILTERLESS**

zapped with long-life, high-quality UV-C lamps instead of high-maintenance filters that have to be disposed of as hazardous waste

## **OZONE FREE**

no ionisation of the room air, environmentally and health friendly

## **COMFORTABLE**

ZAPP! thanks to the presence detector, it switches on automatically when the room is occupied and also switches off again when the room is empty and the air is clean

## **WHISPER LEAD**

no disturbing noise development despite powerful performance



## **SAFE**

Due to the all-round protection, people and animals can stay in the room and are protected from direct UV-C radiation if the minimum distances are observed.



# HOW IT WORKS ZAPP!



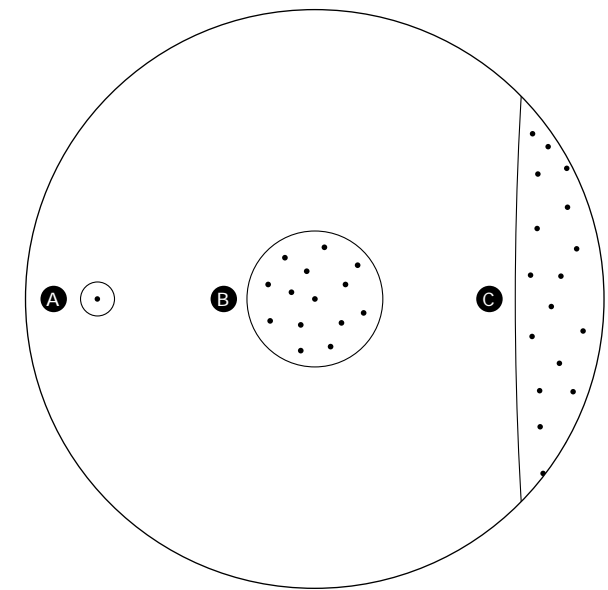
## ZAPP! SAFEGUARDS THE ROOM FROM BIOAEROSOLS

UV-C lamps with a wavelength of 254 nm are used in ZAPP! The room air with the viruses and fungi in it is continuously passed through the lamp body. There, the DNA and RNA of the microorganisms absorb the UV-C radiation. This blocks cell division and the microorganisms die.

A A very small aerosol particle exhaled during breathing, with a diameter of  $0.5 \mu\text{m}$ , remains in the air for more than a day in unventilated rooms.

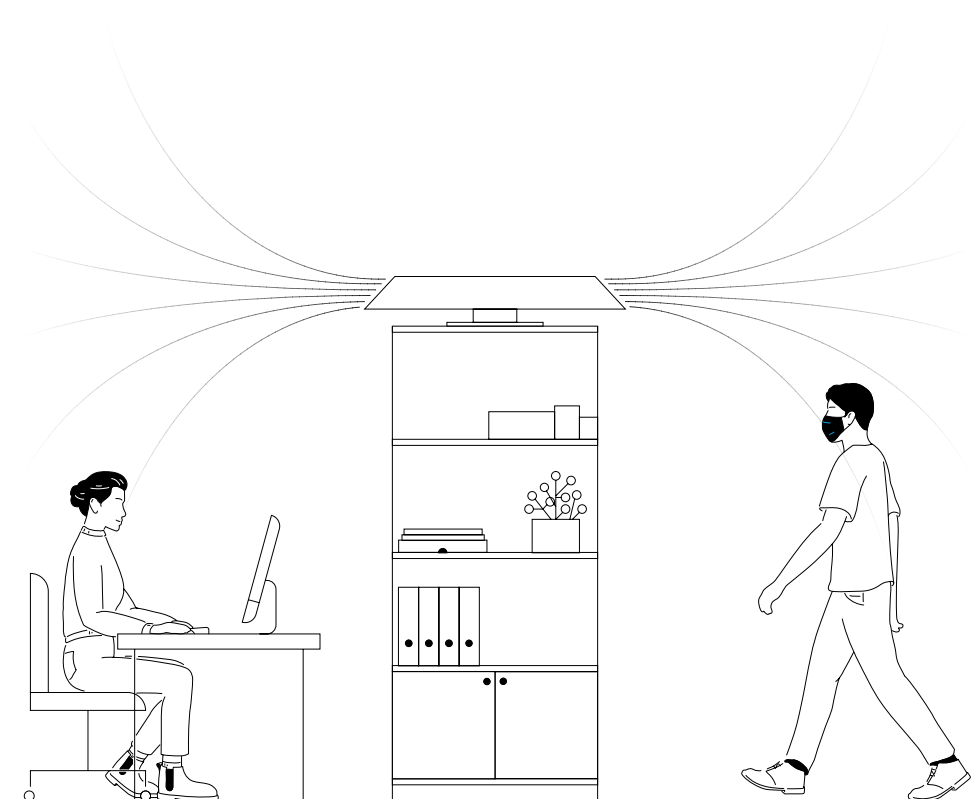
B Aerosol particles with a diameter of  $2 \mu\text{m}$ , such as those produced by speaking and singing, remain in the air for several hours.

C Larger aerosol particles, which are produced, for example by sneezing, fall to the ground after a few seconds. These contribute to droplet and smear infections.



A cold, damp climate and darkness prolongs the activity of bioaerosols.

Infection from SARS-CoV-2 largely takes place via virus aerosols in the air.



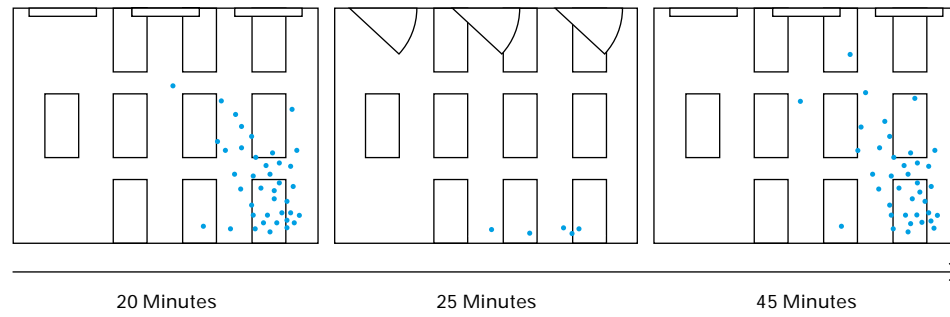
ZAPP! works in the upper room area (appropriate installation), where most aerosol particles are located.



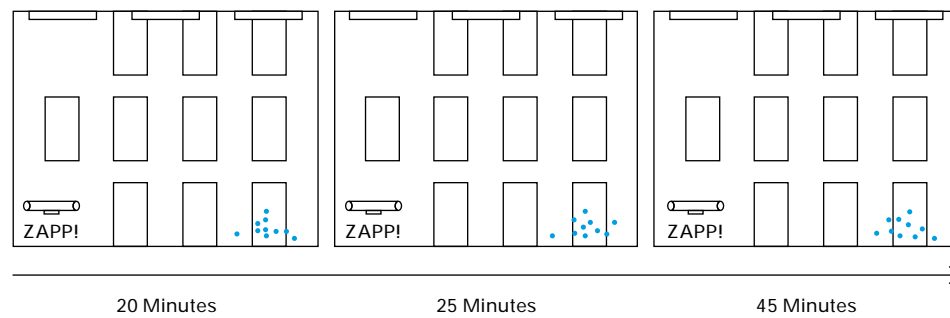
## ZAPP! SUPPLEMENTS VENTILATION

Regular ventilation is good for you and promotes good health. Fresh-air-ventilation is ideal. Weather and architecture do not always make this possible. ZAPP! complements ventilation and sterilises the air in the upper room area. This is where most aerosol particles are found.

Aerosol particles over time during window ventilation in a room without ZAPP!



ZAPP! shows its effect and reduces the aerosol load in the room.







**FLEXIBLE  
APPLICABLE**

## ZAPP! IS RELIABLE AND FLEXIBLE

The room air is guided through the ZAPP! in a controlled manner by a fan and disinfected up to 99% inside the unit with UV-C radiation.

The positioning of the unit is very flexible. ZAPP! can be placed or fixed anywhere in the room by means of a stand and wall bracket.



Automatic on/off switching via the presence sensor



Ceiling pendant



Pedestal



Wall mounting

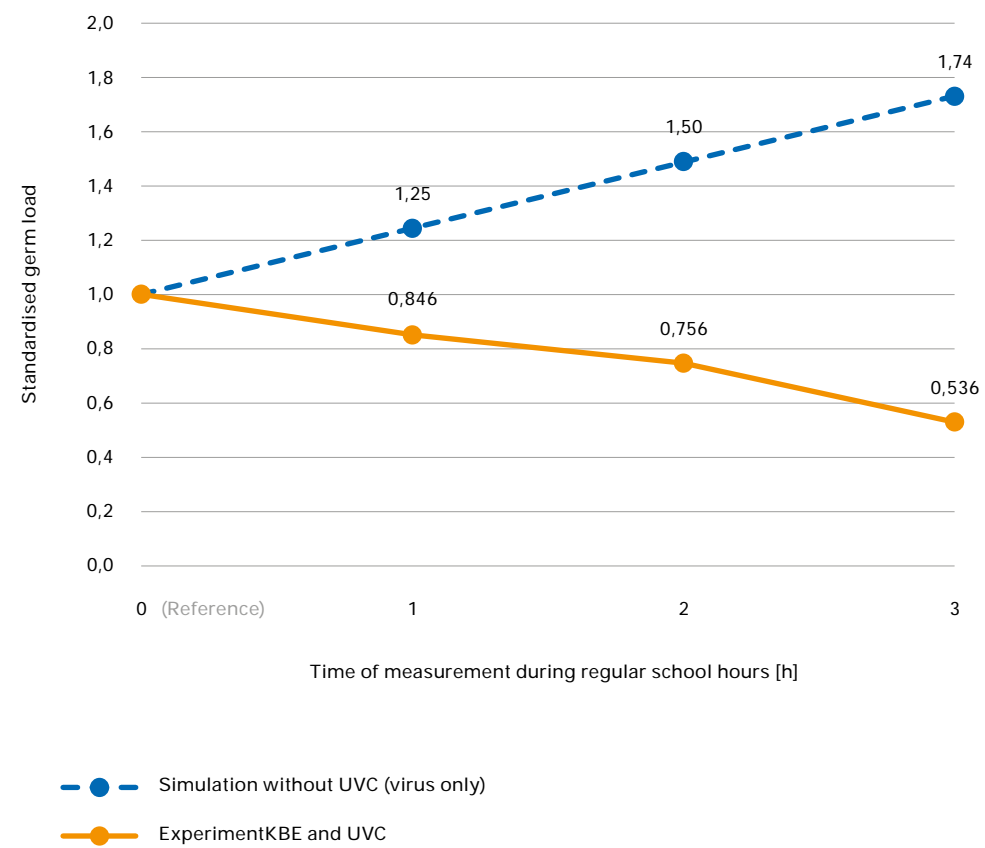


## EFFECTIVENESS STUDY: ZAPP! FIELD TEST IN THE CLASSROOM (2021)

The effectiveness of ZAPP! was confirmed in a practical test in the classroom of a primary school in Bad Dür rheim, Baden-Württemberg. Two ZAPP! 80 were used in the 65 sqm classroom. The PCR laboratory services evaluated the virus load.

The reduction of the germ load was approx. 33 % after 1 hour, approx. 50 % after 2 hours and approx. 70 % after 3 hours. This shows how well ZAPP! works.

The germ load without UV-C air purifiers (as a comparative value) was simulated by the Leipzig University of Applied Sciences (HTWK) so that pupils were not exposed to any unnecessary risk.



# ZAPP! IS SAFE



**ZAPP! is safe, ozone-free, quiet and effective.**

And this has been scientifically tested by the Munich University of Applied Sciences. The UV-C air purifier is safe and classified in risk group 0 when correctly installed according to the criteria of EN 62471.



You can request  
the entire test  
report here.



Fill up with inspiration and recharge with brilliant ideas! Our EMIL 28 showroom radiates the spirit of company founder Emil Waldmann. [#blackforestlight](#)

Shine the light of precision  
so people can build better things.

Shine the light of reason  
so people can see more clearly.

Shine the light of creation  
so people have brighter ideas.

Shine the light of knowledge  
so science reveals more.

Shine the light of day so your  
people stay healthy at work.

Shine the light of sustainability  
so nothing is wasted.

Shine the light of connectivity  
so your building works as one.

Shine the light of experience so  
your projects evade costly errors.

Shine the light of success so your  
organisation can grow and prosper.

Shine the [#blackforestlight](#)  
and conquer darkness, forever.

# SHINE A LIGHT







Model	ZAPP!80
Lamp power	58 Watt
Rated power	70 W
UV-C Power	23 W
Light source (UV-C)	1 x H58-846
Operating hour lamps	16.000 h Service life
Recmdt. Room size Bacteria/viruses Recmdt. Room size Mould/spores	40 m <sup>2</sup> 15 m <sup>2</sup>
Air volume	70 m <sup>3</sup> /h
Inactivation of (corona) viruses in aerosols	99% per air ow
Protection class	IP 20 (dry rooms)
Cable length	2,5 m with net plug
Connection	Net plug
Power consumption	0,31A
Disinfection time	Continuous operation
Volume	32 db
Dimensions (LxWxD mm)	1160×130×130 mm
Height incl. stand	18 cm
Material	Powder coated aluminium
Weight	approx. 6,6 kg



White	
ZAPP!80 - Schuko plug	No. 811224
ZAPP!80 - CH-Plug	No. 811246

White	
ZAPP!80 - Pendelgerät	No. 811230

Black	
ZAPP!80 - Schuko plug	No. 811978
ZAPP!80 - CH-Plug	No. 811980

Black	
ZAPP!80 - Pendelgerät	No. 811979



(1 of 1000)

Here, we like to train the spotlight on the people at Waldmann who give their all to create the best possible lighting solutions. Thank you, OLIVER!



# ENGINEERS OF LIGHT: OLIVER