

ENGINEERS OF LIGHT

# ZAPP!

UV-C AIR STERILIZER



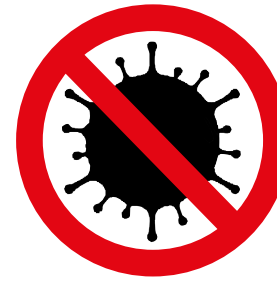
**Offices, living rooms, schools, medical facilities and shops: 99.99% virus-free (per air passage) thanks to Waldmann ZAPP!**

**Waldmann**

ENG



# FINALLY – THE LIGHT WEAPON AGAINST ALL VIRUSES AND FUNGI: ZAPP!



## YES WE ZAPP!

### THIS IS HOW ZAPP! WORKS

Light with ultra-short wavelengths damages the genetic material of microorganisms, which die at lightning speed. That is why we have been using UV-C in medical technology for decades. Our Swabian Engineers of Light are now taking this technology everywhere.

The ZAPP! air steriliser uses UV-C to inactivate aerosol particles in the air. Bye-bye, Coronavirus. ZAPP! you.

### ZAPP! IS VERSATILE

ZAPP!18 and ZAPP!80 can be used either as floor-standing or wall-mounted devices. They do not generate ozone or ionize the room air and are whisper-quiet. They are made of hygienic white, powder-coated aluminium.



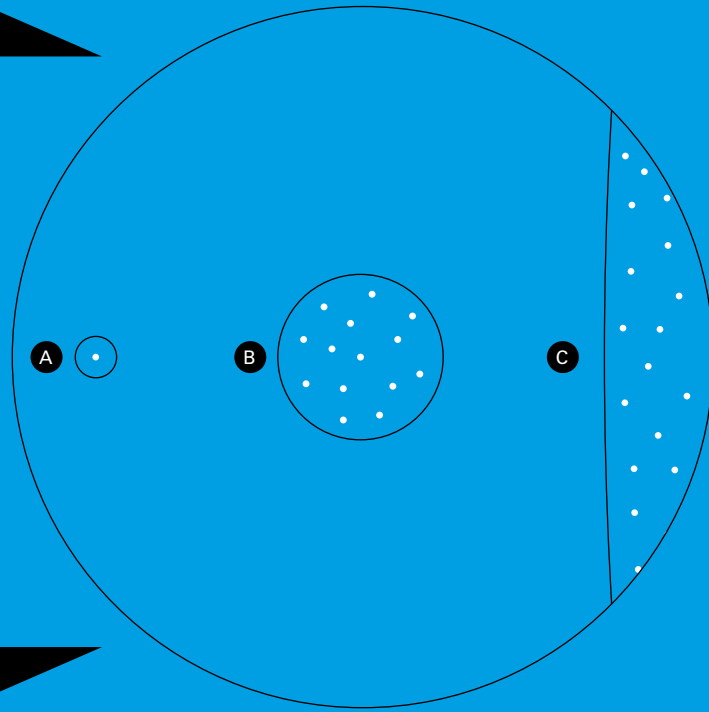


# 1

## ZAPP! SAFEGUARDS THE ROOM FROM BIOAEROSOLS

ZAPP! uses UV-C lamps with a wavelength of 254 nm. The room's air containing viruses and fungi are 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 cold, damp climate and darkness prolongs the activity of bioaerosols.



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.

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

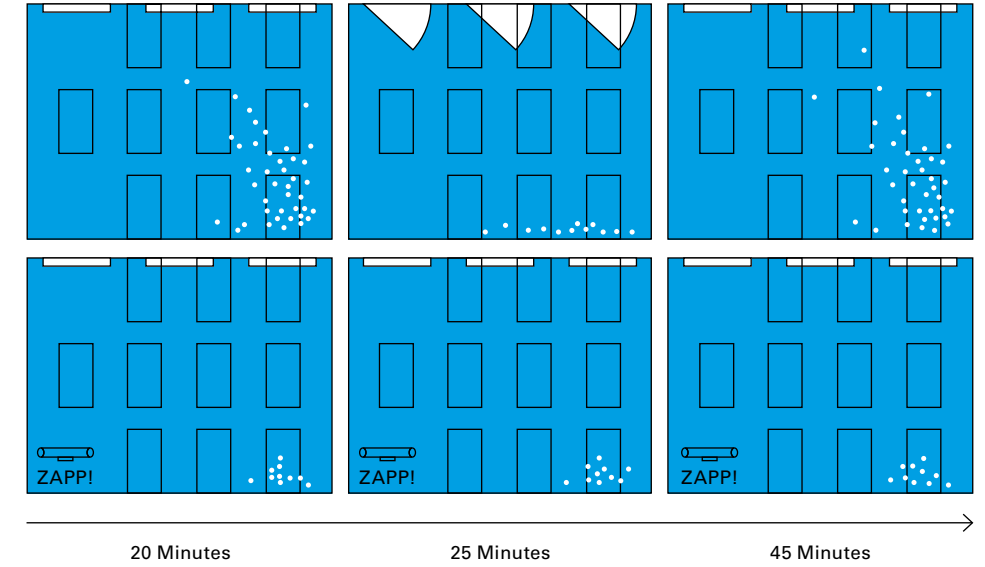


# 2

## 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.

ZAPP! reduces the bioaerosol load in the room. Top: Aerosol particles over time in a room without ZAPP! Bottom: ZAPP! shows its effect.



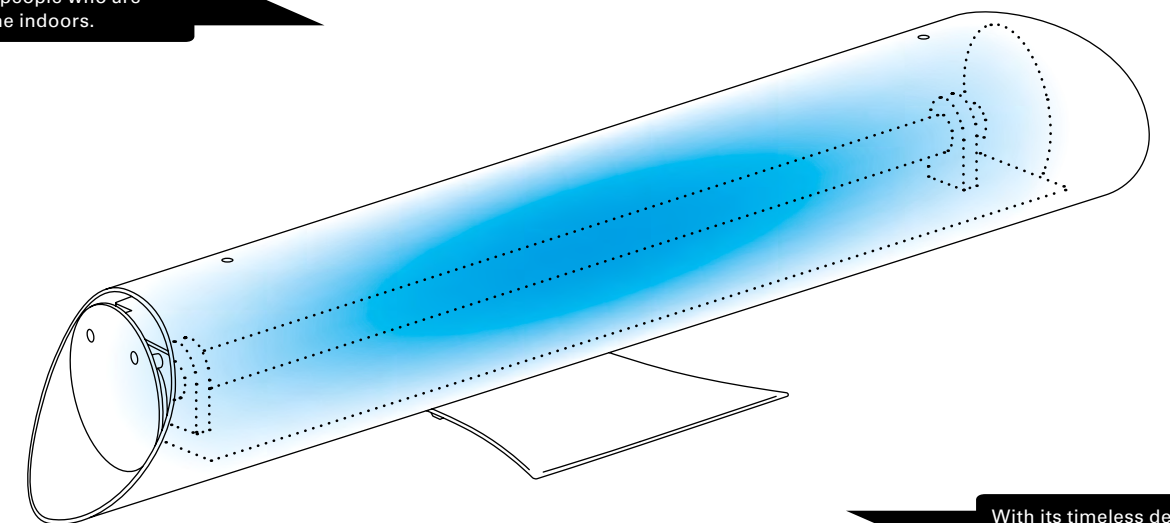
# 3

## ZAPP! IS RELIABLE AND FLEXIBLE

The room air is passed through the ZAPP! in a controlled manner by a fan, and sterilised inside the unit by UV-C radiation. Sterilisation up to 99%.

Flexible positioning allows ZAPP! to be mounted or fixed anywhere in the room by means of the included stand or wall bracket.

ZAPP! reduces the risk of infection for people who are spending time indoors.



With its timeless design ZAPP! blends into the interior design.

# ZAPP!80



# ZAPP!18



Model	ZAPP!80	ZAPP!18
Lamp strength	58 watt	18 watt
Rated power	70 W	25 W
UV-C power	23 W	6 W
Light source (UV-C)	1x H58-846	1x U18W-217
Operating hours lamps	16,000 hrs useful life	8,000 hrs useful life
Recommended room size bacteria / viruses	40 m <sup>2</sup>	15 m <sup>2</sup>
Recommended room size mould / spores	15 m <sup>2</sup>	5 m <sup>2</sup>
Air volume	70 m <sup>3</sup> /h	14 m <sup>3</sup> /h
Vating (Coronavirus) in aerosols	99% per air passage	95% per air passage
Protection rating	IP 20 (dry rooms)	IP 20 (dry rooms)
Cable length	2.5 m with mains plug	2.5 m with mains plug
Connection	Mains plug	Mains plug
Power consumption	0.31A	0.11A
Disinfection time	Continuous operation	Continuous operation
Volume	32 db	25 db (= breathing sound)
Dimensions (L x W x D)	1160 x 130 x 130 mm	495 x 100 x 100 mm
Height including stand	18 cm	14 cm
Material	Powder-coated aluminium	Powder-coated aluminium
Weight	approx. 6.6 kg	approx. 2.0 kg
Order no.	Schuko plug (european standard connector)	114426000-00809054
Order no.	CH plug	114427000-00809055
Order no.	UK plug	114428000-00809056
		114423000-00809051
		114424000-00809052
		114425000-00809053

## ZAPP! IS SAFE

Thanks to the all-round protection, people and animals can stay in the room and are protected from direct UV-C radiation.

## THESE PLACES ARE NOW USING ZAPP!

- Offices**
- Medical facilities**
- Hospitals**
- Public institutions**
- Care homes for the elderly**
- Kindergartens**
- Schools**
- Pharmacies**
- Laboratories**

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## THE LIGHT OF HYGIENE

Whether it's in industry, in the office or in healthcare – Waldmann has been helping people in the medical field see all that needs to be seen since 1928. Want to integrate components into systems, be it electrical or mechanical, as simply as possible? Won't stand for anything less than the ultimate in robustness, quality and technically spot-on application? Your staff insist on top visibility to be able to work safely, ergonomically and truly without error? From Swabia in Germany, Waldmann brings you a one-stop solution – for a planet where the light never goes out.

# FIGHTING DARKNESS