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Summary
UV air sterilizer Zapp!80

**Safety Evaluation,
Disinfection Performance
and Recommendation for Application**

Prof. Dr. med. Herbert Plischke
Professorship Light and Health

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Ihre Zeichen/Nachricht

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**Fakultät für
angewandte
Naturwissen-
schaften und
Mechatronik**

Prof. Dr. med.

Dipl.-Ing. (FH)

Herbert Plischke

Phone: 089/1265-1638

Fax 089/1265-1603

herbert.plischke@hm.edu

Summary UV air sterilizer Zapp!80

Safety Evaluation, Disinfection Performance and Recommendation for Application

UV-C Safety:

The source does not pose a photobiological hazard regarding the reference distance as defined by the criteria of EN 62471 the device can be classified in risk group 0 (no risk).

Ozone formation:

The device does not cause increased levels of ozone compared to the variation of the natural indoor air concentration of ozone.

Orienting Acoustic Measurement:

The orienting measurement of acoustic emissions showed no evidence of deviation from the manufacturer's specifications of a weighted sound pressure level of 32 dB(A). Depending on the attenuating materials, an approximate check should be carried out on-site to determine whether special requirements, e.g., in compliance with ASR in the application area are met.

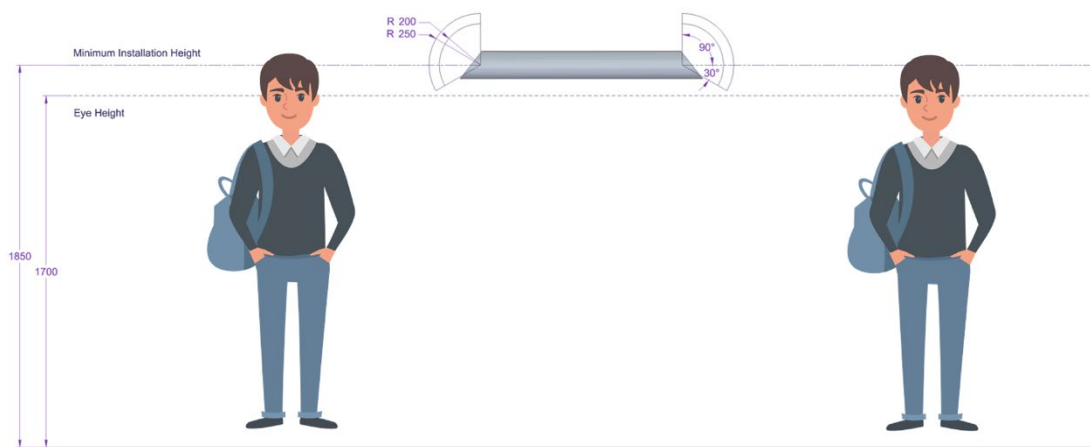
Disinfection efficiency (radiation dose for single passage):

According to calculation and punctual re-measurement, up to 99% inactivation of coronaviruses (Ref. Walker 2007) can be assumed for a single passage with maximum air power at a fluence of approx. 66 J/m².

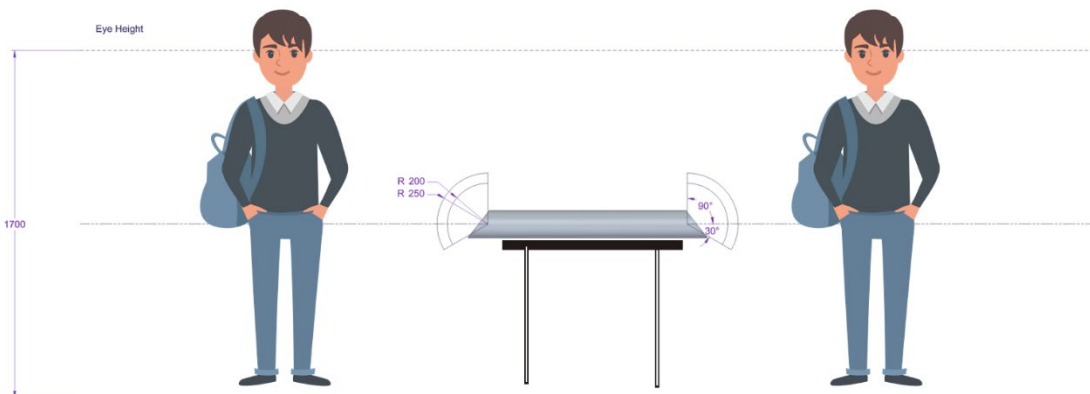
Recommendations for use:

Recommendation regarding user safety:

Due to the construction, reflections in the edge areas of the Zapp!80 can cause a small amount of UV radiation to be emitted to the outside. Therefore a minimum distance from the Zapp!80 must be maintained. Referring to the 8h limit value of 30 J/m² from the Technical Rule on Incoherent Artificial Optical Radiation (TROS IOS), the limit value is not exceeded until a safety distance of about 15cm from the ends is maintained. Applications for vulnerable groups, e.g. daycare centers, require a greater distance to the device, which is 25cm according to DIN-TS 67506.



Application recommendation for ceiling or wall mounting of the Zapp!80



Application recommendation table mounting Zapp!80

Due to the direction of the radiation (70° over the longitudinal axis of the Zapp! 80), ceiling or wall mounting is recommended. The mounting height should be at least approx. 1.85 m. The regulations according to TROS IOS for protective measures apply here.