

Testing of the emission release of ozone and volatile organic compounds in a meeting room by an air cleaning device on basis of UVC (AC 20)

Product name: Air Cleaner AC 20
(Lamp power 2 x 95 Watt)

Manufacturer: VEIT GmbH
Justus-von-Liebig-Str. 15
86899 Landsberg/Lech (Germany)

Test report: HoE-015/2021 from May 20, 2021

Internal reference number: E3532



Experimental procedure: Meeting room (base area approx. 46 m², volume approx. 125 m³), decentralized position of the air cleaner in a corner of the room, room temperature 24 °C to 25 °C, air humidity 26 % to 27 % RH.

Results:

- The sum of volatile organic compounds (TVOC) in the investigated room formed by the air cleaner (8 µg/m³) can be classified in level 1 "hygienically harmless".
- The concentrations of all detected VOCs in the room and additionally formed by the air cleaner are significantly below the RW I and RW II values, depending on existing indoor air guide values. The guide values are developed by an ad-hoc working group of members of the Federal Environment Agency's Indoor Air Hygiene Commission (IRK) and the Permanent working Group of the Highest State Health Authorities (AOLG).
- 23 of the 27 identified substances are compiled in list of the orientation values of the AGÖF (Association of Ecological Research Institutes e.V.) exist. The detected concentrations are below the limit values.
- No ozone was formed as a result of the operation by the air cleaner AC 20.

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