

# QUESTIONNAIRE

Air Cleaner AC 10/AC 20



## UV-C TECHNOLOGY

What is UV-C?

- ✓ UV-C is ultraviolet radiation below 280 nm wavelength, which is not visible to the human eye
- ✓ Germs, viruses and spores are reliably reduced and hygiene conditions are improved
- ✓ UV-C has the highest effect at a wavelength of 254 nm. The UV-C lamps used by us are located in this range (low-pressure lamps, service life approx. 9,000 hours)

In which areas is UV-C technology used?

- ✓ In the water purification / disinfection sector since decades
- ✓ Offices and meeting rooms
- ✓ Waiting and treatment rooms
- ✓ Guest rooms
- ✓ Public common areas
- ✓ Production sites
- ✓ Salesrooms
- ✓ and much more

Air exchange rate

- ✓ AC 10 up to 80 m<sup>3</sup> per hour
- ✓ AC 20 up to 400 m<sup>3</sup> per hour

For which rooms sizes are VEIT devices suitable?

**The recommended number of square meters depends on several factors:**

- ✓ Room height
- ✓ Size and layout of the room
- ✓ Frequency (number of people)
- ✓ Additional ventilation systems
- ✓ Use of the room
- ✓ Possible ventilation times
- ✓ Hygiene requirements
- ✓ For the AC 10 we assume an average value of up to 30 m<sup>2</sup> at normal room height, for the AC 20 of up to 120 m<sup>2</sup>

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How long must the air be irradiated for a corona virus to be harmless?

- ✓ The amount of radiation to eliminate a corona virus is about 4 mJ/cm<sup>2</sup>
- ✓ This value is exceeded during the dwell time of the air in AC 10 / AC 20 with a safe buffer

Is the UV light dangerous / harmful to health?

- ✓ The UV-C rays are due to the construction of the device harmless to health and can NOT cause skin or eye irritation
- ✓ The development of environmentally unfriendly ozone or free radicals is excluded by the wavelength of 254 nm
- ✓ Our devices can also be used when people are in the same room. This sets us apart from some of our competitors

Is the device equipped with a filter?

- ✓ A G3 filter is used against coarse soiling to prevent contamination inside the device

### Disadvantages of fine dust / HEPA filter:

- ✓ Fine dust filters such as activated carbon filters or HEPA filters reduce the volume flow noticeably
- ✓ They dirty easily. But we eliminate the germs with UV-C radiation, deactivate the viruses
- ✓ Filter systems, which filter out viruses in their classification are very expensive

Your advantages

- ✓ Low acquisition costs
- ✓ Low maintenance and operating costs
- ✓ High efficiency (up to 99.9% of germs are killed)
- ✓ Without chemicals
- ✓ Odour neutralization of the air
- ✓ Flexible placement and application possibilities
- ✓ Continuous operation possible
- ✓ Made in Germany
- ✓ The VEIT production is certified according to ISO 9001:2015 by TÜV

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## GENERAL KNOWLEDGE

Why do room fans with activated carbon or HEPA filters not filter viruses?

- ✓ Household fans filter suspended particles and allergens in the size range of micrometers (bacteria: 0.3 to 1 micrometer)

These filter media only capture larger particles to which viruses may adhere, but do not reduce the pure virus concentration in the room air.

- ✓ UV-C radiation eliminates germs, viruses and bacteria in the size range of up to 0.001 micrometer (e.g. Corona Virus)

How do we know that the VEIT devices reliably render viruses harmless?

International studies and literature have shown the amount of radiation necessary to kill bacteria or render viruses harmless. The amount of radiation, even to deactivate viruses, is guaranteed in our devices and even exceeded with a large safety buffer.

## ARGUMENTATION AID

Why should you invest in these devices?

Air cleaning devices are like mouth protection, washing hands, sneezing label a valuable addition to a hygiene concept. The devices form an additional protection, since the infectious aerosols (according to the current status the highest probability of infection) in the air are reduced.

Why does a company invest?

- ✓ To protect yourself and your staff! If it turns out that the „owner“ or an employee has been infected, he can „close the store“.
- ✓ Marketing: advertising in newspapers, on the homepage or via product flyers. Additional hygiene measures against infections
- ✓ Increases the feeling of security for customers and guests
- ✓ Reduction of „ventilation times“ in the rooms

**MADE IN GERMANY**

The production at VEIT is certified according to ISO 9001:2015 by TÜV.