



- 1. INTRODUCTION GENERAL / UV-C-RADIATION
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- 7. TESTS AND STUDIES BOSTON UNIVESITY / DR. HÖNLE AG / STERILIZATION WITH UV-LIGHT / BAUA
- 8. VEIT GMBH

INTRODUCTION GENERAL



TAKE A DEEP BREATH
WITH THE NEW VEIT AC SERIES
ENJOY THE ADVANTAGES OF A GERM
AND VIRUS-FREE INDOOR CLIMATE.

INTRODUCTION UV-C-RADIATION



Many people run the risk of becoming infected with viruses and bacteria and are also spreading them. The micro-organisms present in the air - such as viruses, bacteria, yeasts and mould - occur particularly in heavily frequented areas such as airports, doctors' surgeries, hospitals and in industry. They endanger the health of people, contaminate raw materials or spoil food.

To limit the risk of infection, UV-C radiation can be used to disinfect the air and destroy viruses and bacteria.



UV-C-RADIATION:

- ✓ 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 and storage conditions are improved
- ✓ UV-C light has been used for over 40 years to disinfect air, surfaces and water
- ✓ UV-C has the biggest effect at a wavelength of 254 nm. This is the range of the UV-C lamps we use (low-pressure lamps, service life approx. 9,000 hours)



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YOUR BENEFITS AC 10 / AC 20



The new VEIT air cleaners AC 10 / AC 20 clean your air with the proven UV-C technology

- ✓ High efficiency (up to 99% of bacteria are killed)
- ✓ Without chemicals and use of ozone
- ✓ Odour neutralisation of the air
- ✓ Low space requirement
- ✓ Continuous operation possible
- ✓ Fast and effective disinfection
- ✓ Flexible application possibilities
- ✓ Easy handling
- ✓ Low acquisition and maintenance costs
- ✓ Made in Germany



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TECHNICAL DETAILS GENERAL



- ✓ CASE: stainless steel (rustproof) with powder coating and a front cover with air grille for air inlet and outlet on both sides
- ✓ FAN: a powerful fan guides the airflow through a dust filter (filter flow) into the system and disinfects along the UV-C lamps to clean it of germs and viruses
- ✓ CASE INTERIOR: Contains germicidal UV-C lamps
- ✓ **UV-C-LAMPS:** The air is sterilized by the UV-C lamps. The clean air is returned (without contamination) to the environment
- ✓ HUMAN HEALTH: Due to the design of the device, UV-C rays are harmless to health and cannot cause skin or eye irritation

TECHNICAL DETAILS AC 10



✓ Dimension: 855x320x325mm (HxWxD)

✓ Supply voltage: 230V (50Hz)

✓ Emitter power: 1 x 95W

- ✓ Protection class IP 20
- ✓ Suitable for rooms up to 30m² (depending on the room height

Output:

- 9.000 operating hours per UV-C lamp
- Continuous operation possible

Design:

- Compact VEIT-Design
- UV-C radiation does not leak out of the case

Flexible placement options:

- Easy positioning due to mobile base frame
- · Optionally available with wall bracket



Fan:

- High air flow (80m³/h)
- Low noise operation <40dB

Maintenance:

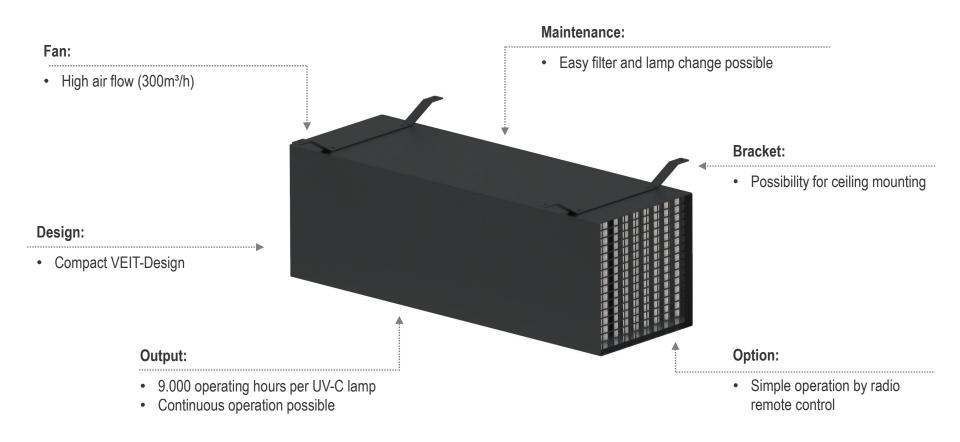
• Easy filter and lamp change possible

TECHNICAL DETAILS AC 20



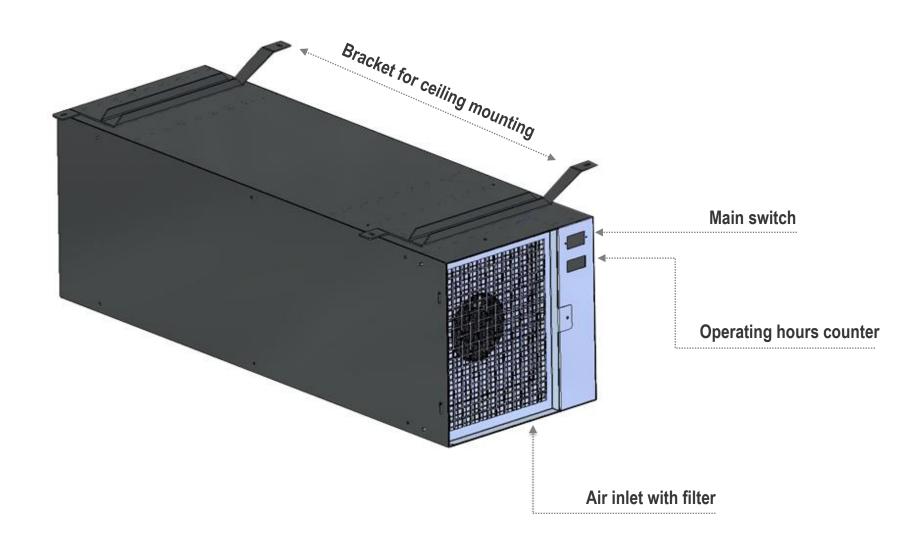
- ✓ Dimensions: 400x1200x400mm (HxWxD)
- ✓ Supply voltage: 230V (50Hz)
- ✓ Installation site: in the middle of the room

- ✓ Emitter power : 2 x 95W
- ✓ Protection class IP 21
- ✓ Suitable for rooms up to 120m² (depending on the room heigh



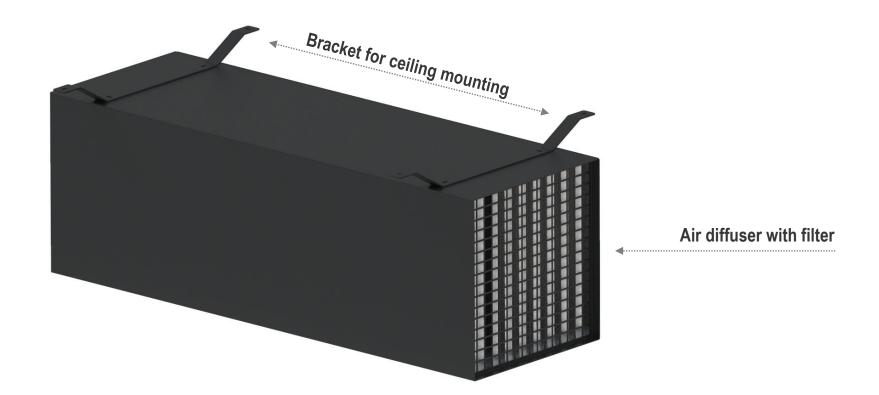
TECHNICAL DETAILS AC 20 BACK SIDE VIEW





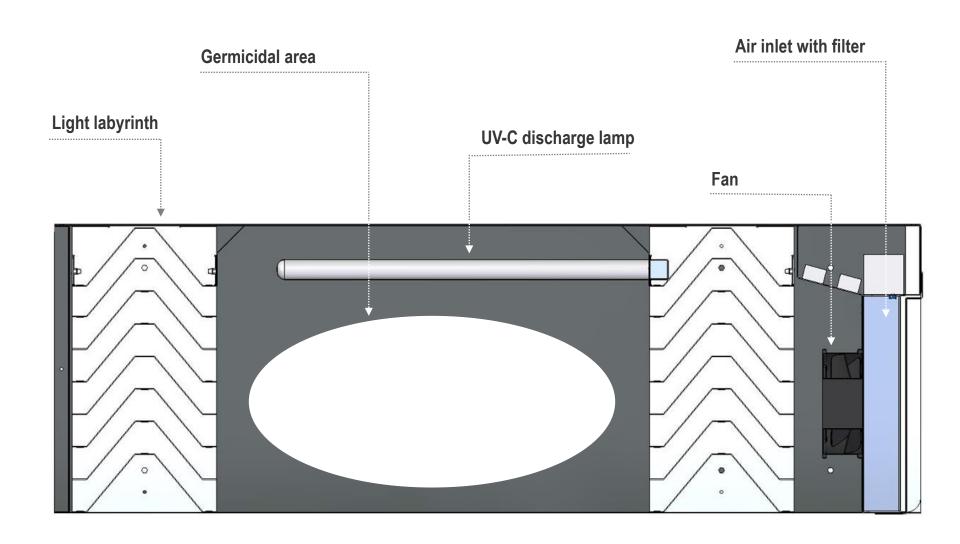
TECHNICAL DETAILS AC 20 FRONT SIDE VIEW





TECHNICAL DETAILS AC 20 CROSS SECTION VIEW







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APPLICATION AREAS AC 10



- ✓ City and municipality offices
- ✓ Banks, service institutions
- ✓ Medical practices, dental laboratories, massage studios
- ✓ Shopping centers, grocery stores
- ✓ Furniture stores, building centers

- ✓ Gastronomy, kitchens, hotel industry
- ✓ Butchers, production facilities
- ✓ Fitness studios, cinemas, swimming pools
- Airports, buses, train, large-capacity taxis
- ✓ and much more

APPLICATION AREAS AC 20



- ✓ Hospitals
- ✓ Retirement homes
- ✓ Office buildings

- ✓ Manufacturing industry
- ✓ Public institutions
- ✓ and much more



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YOUR HEALTH IS IMPORTANT TO US



With the AC - series you can clean the air 24 hours 7 days a week, because the UV-C radiation does not escape from the housting. We can ensure this by means of our intensive tests and measurements in our R&D development laboratory.









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QUALITY OUR PROMISE



VEIT stands for outstanding quality. Through a continuous improvement process, quality is maintained at the highest level guaranteed.

You can rely on us:

- We run comprehensive initial tests
- We monitor our quality constantly and
- We continuously improve our products

The entire company has been certified according to DIN EN ISO 9001.





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TESTS UND STUDIES BOSTON UNIVERSITY



Tests to deactivate the virus have recently been conducted and confirm the effectiveness of UV-C light.

The study was carried out by Boston University in the USA. Its National Emerging Infectious Diseases Laboratories (NEIDL) tested the effectiveness of Philips UV-C lamps in inactivating SARS-CoV-2, the virus that causes COVID-19. Inoculated material was treated with different doses of UV-C radiation from a Signify light source and inactivation was evaluated under different conditions. The university concluded that UV-C light can reduce the SARS-CoV-2 virus by up to 99.9%. "Our test results show that above a certain dose of UV-C radiation, viruses were completely inactivated: Within seconds, we could no longer detect a virus," summarizes Dr Anthony Griffiths, Associate Professor of Microbiology at Boston University School of Medicine. This is critical in the current situation where companies are looking for ways to continue their operations and services in a safe environment.

TESTS UND STUDIES DR. HÖNLE AG



In a laboratory in Frankfurt, the irradiation of corona viruses was tested with equipment from the company Dr. Hönle AG based in Gräfelfing. The viruses were irradiated with UV-C discharge lamps and UV-LEDs. The elimination rate of the virus was 99.4 %.

Almost all corona viruses could therefore be deactivated and rendered harmless by UVC radiation. In all cases, only a few seconds were needed for this - a great success in the fight against the SARS-CoV-2 viruses, which many experts had already suspected and which has now been scientifically proven. The results of the tests could have far-reaching consequences. Further tests are to be carried out at the "Fraunhofer Institute" in the near future.

TESTS UND STUDIES STERILIZATION WITH UV-LIGHT



In South Korea, researchers from the private Korea University, together with developers from Seoul Voss and Sensor Electronic Technology, Inc. (SETi) have shown in a study that they can kill corona viruses with an LED solution from the two companies. In an irradiation time of 30 seconds, 99.9% of the viruses were eliminated.

In addition to coronavirus, the study also examined how violeds technology affects other bacteria. Again, a sterilization rate of 99.9% was shown for bacteria such as Escherichia coli, Staphylococcus Aureus, Pseudomonas Aeruginosa, Klebsiella Pneumonia and Salmonella Typhimurium.

UC sterilization is particularly suitable for combating viruses on surfaces and also for air sterilization. UV light is already being used for this purpose and new solutions for the special requirements against the corona virus are currently being developed.

TESTS UND STUDIEN BAUA



"What has to be taken into account for ventilation and air-conditioning systems (RLT systems)?

If RLT systems (e.g. ventilation and air conditioning ducts) are operated without recirculated air or the recirculated air is passed through suitable filters or other devices to reduce the virus concentration and the RLT systems are maintained properly (inspection, cleaning, filter change, etc.), the concentration of viruses in the room air and thus the probability of infection by SARS-CoV-2 can be reduced if virus excreters are present. Such air conditioning systems should therefore not be switched off during operating or working hours, but preferably run continuously. If this is not possible, the operating times of the HVAC systems should be extended before and after the rooms are in use so that complete air exchange is achieved (e.g. by about 2 hours for normal use such as offices).

What should be considered for mobile or decentralized devices?

Mobile or decentralized devices for circulating air, such as fans (e.g. floor standing fans), devices for personal cooling (e.g. hose and split devices) or devices for heating (e.g. fan heaters) should only be used in rooms with individual occupancy, as the air flow increases the spread of viruses in the room air and such devices do not contribute to a reduction of the virus concentration in the room air".



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The VEIT Group with its head office in Landsberg, Germany, is worldwide the leading manufacturer of ironing equipment, fusing machines, pressing machines as well as refinishing equipment for garments.

For more than 60 years the products of the VEIT Group have been models of outstanding quality and maximum efficiency, which is also reflected in the new products in the area of cleaning, germ and virus protection.

ARRANGE YOUR PHONE INDIVIDUAL APPOINTMENT WITH YOUR EXPERT!



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