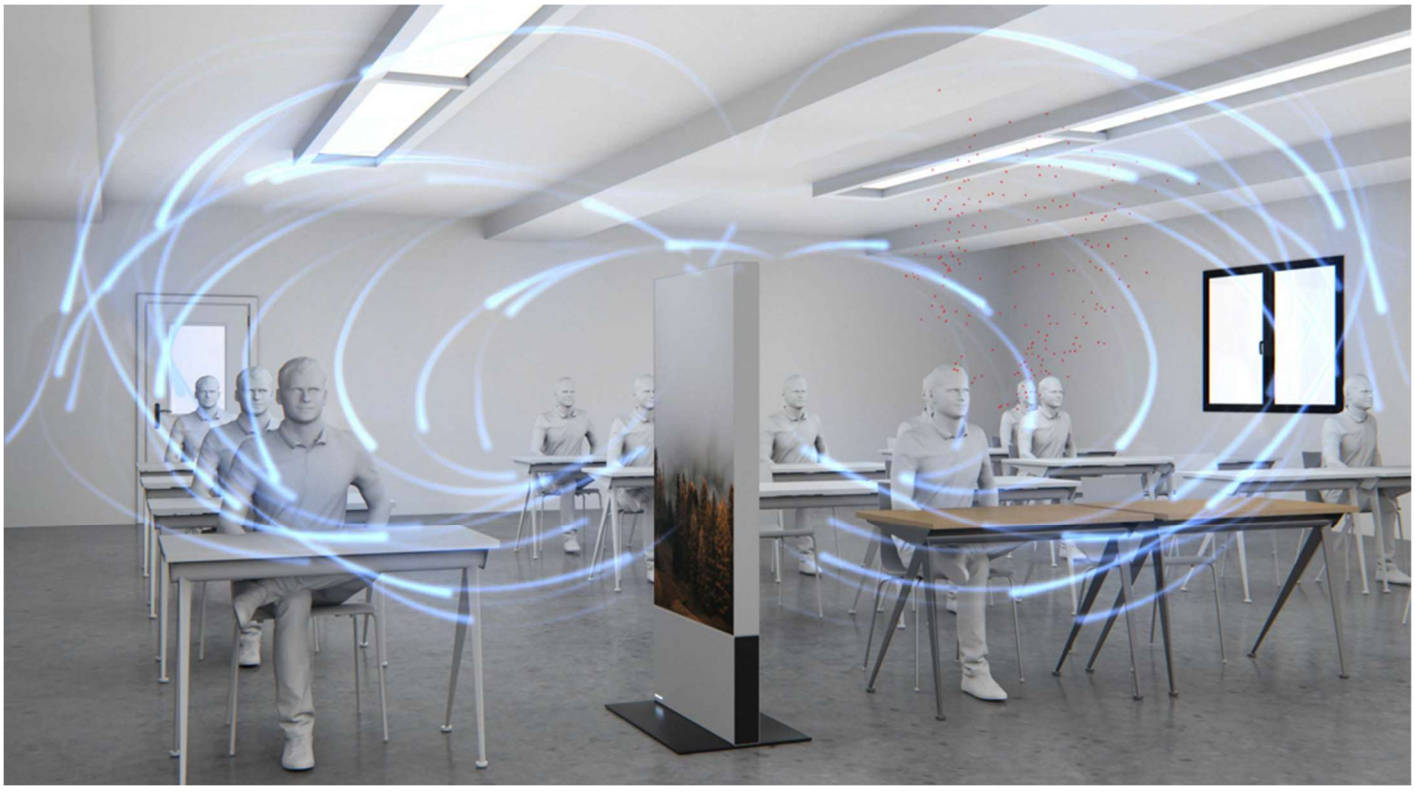
DURST HABITAT
AIR DISINFECTION

SPECS & PRICES
12/2020

FREEDOM TO BE IN THE NEW NORMALITY

The Durst UVC-R air disinfection system 'Habitat' is the solution against infectious aerosols, viruses and germs. As scientific studies in Europe and the USA show, aerosols are primarily the cause for the transmission of COVID-19.

Durst Habitat effectively reduces the viral load indoors.



DESIGNED FOR INTERIORS

Durst Habitat is designed to reduce the viral load in indoor environments such as offices, schools, restaurants, bars, stores or banks and making the environment safer. The air disinfection system with UV-C technology is highly efficient, whisper-quiet and can be personalized for any environment.

HIGH-TECH MADE IN SOUTH TYROL

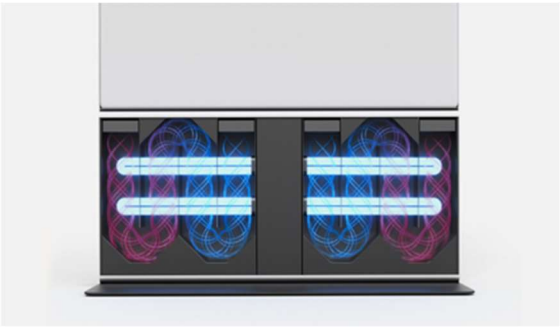
Durst Habitat has an airflow-optimized design that efficiently eliminates viruses like COVID-19. The continuously drown-in infectious air is guided past several UV-C light sources via mirrored channels. The fluid dynamics ensure a maximum exposure time and irradiation of the air in the channels.

Developed in Durst Labs and tested by independent, accredited European test laboratories, Durst Habitat achieves an effectiveness of >99%.

PARTICULARITIES

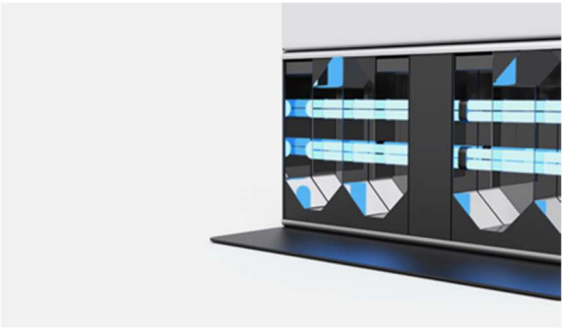
UV POWER

Durst Habitat is equipped with 4 UV-C high performance lamps with a total of 96 Watt. This makes Durst Habitat up to 4x more powerful than comparable systems. The slower air flow of the system ensures a low noise level and a longer exposure time and irradiation dose of the infectious air in the channels. The use of UV-C systems to inactivate germs, including bacteria and viruses, has been proven by scientific studies.



AIRFLOW OPTIMIZED CHANNELS - EXPOSURE TIME

During the development of Durst Habitat, the focus was on the maximum exposure and irradiation time of the infectious air in the channels. Comparable systems focus on the maximum volume of air that is passed through. In elaborate flow simulations and CFD model calculations the channels were optimized to irradiate the infectious air with UV-C light for up to 3 seconds. Only due to this exposure time, viruses and germs are effectively rendered harmless, as scientific studies prove.



MIRRORED CHANNELS

The airflow channels are mirrored in a sophisticated process. This increases the performance of the UV-C light by up to 30% compared to non-mirrored channels.

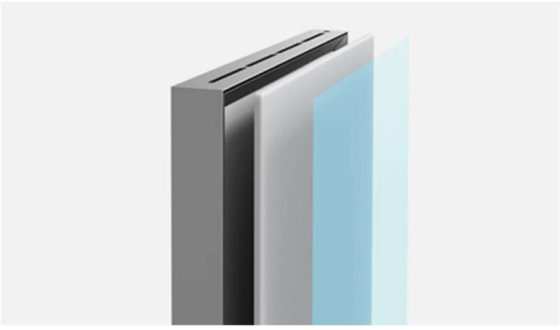
PARTICULARITIES

OZON-FREE

All measurements confirm that no harmful ozone is emitted into the ambient air. Even at maximum output, the value is far below legal requirements.

SILENT MODE/POWER MODE

The Durst Habitat Systems can be operated in 2 modes. The Silent Mode with 40m3/h and a sound level below 35 db(A) and the Power Mode to "ventilate" a room with 100m3/h volume flow.
The external effectiveness test, which evaluates the entire system, confirms the almost complete decontamination of the infectious air after 30 minutes in Silent Mode. (greater than 99%)



ANTI-VIRAL COATED FABRICS

The textile surface of the Durst Habitat System has several functions. Firstly, the surface serves as a funnel and feed system to the intake ducts, secondly as a physical barrier and thirdly as a personalizable advertising and information surface. The textile surface has an antiviral coating so that viruses and germs are already killed at this point and touching the surface is harmless to the user.

PARTICULARITIES

PERSONALIZATION

Durst Habitat systems are designed for the maximum reduction of viral load in interiors, but also fit harmoniously into many room concepts. The antiviral surface can be personalized and can therefore also be used as advertising and information space. The personalization is done via an online editor, which automatically forwards the print data to a digital textile printing machine. In addition, every Durst Habitat 100H system is equipped with a backlit function to make it stand out even in a dark environment.

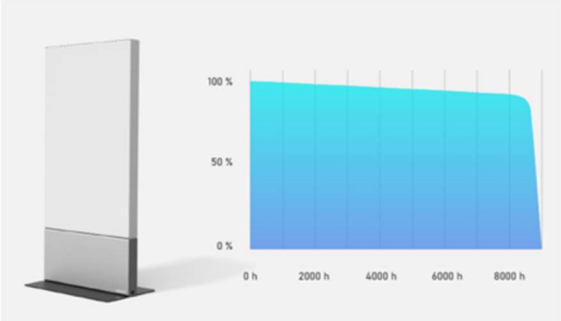
EASY REPLACEMENT OF THE FABRICS

Thanks to classic textile stretching frames and rubber lips, the exchange of fabrics is very easy and can be done by non-experts within minutes. This makes a change of the designs also for advertising & information purposes very easy.

TESTED EFFICIENCY

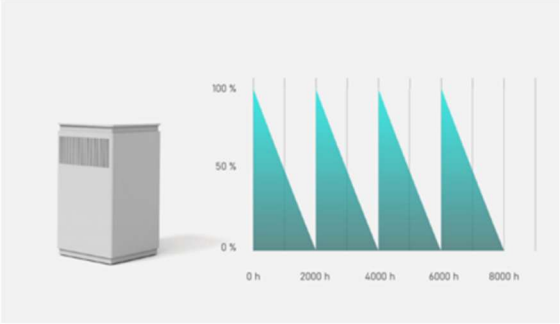
After intensive tests in the Durst Labs with various UV-C modules, the Durst Habitat System was extensively tested at HygCen Germany, an accredited test laboratory for medical technology and disinfectants. HygGen confirmed the Durst internal measurements and the effectiveness of the entire system with >99% after 30 minutes. The UV-C modules used in Durst Habitat are developed for medical applications and have an effectiveness of 99.998%.

PARTICULARITIES



NO MAINTENANCE

Durst Habitat is delivered pre-installed and ready for use. The antiviral textile surface is washable up to 30 times without losing its protective function. Since no classical filters are used, which either have to be irradiated or replaced in compliance with strict safety regulations, Durst Habitat systems are maintenance-free. The UV-C lamps have a life span of approx. 9000h and can be replaced quickly and safely with the help of the operating instructions.



UV-C VS HEPA

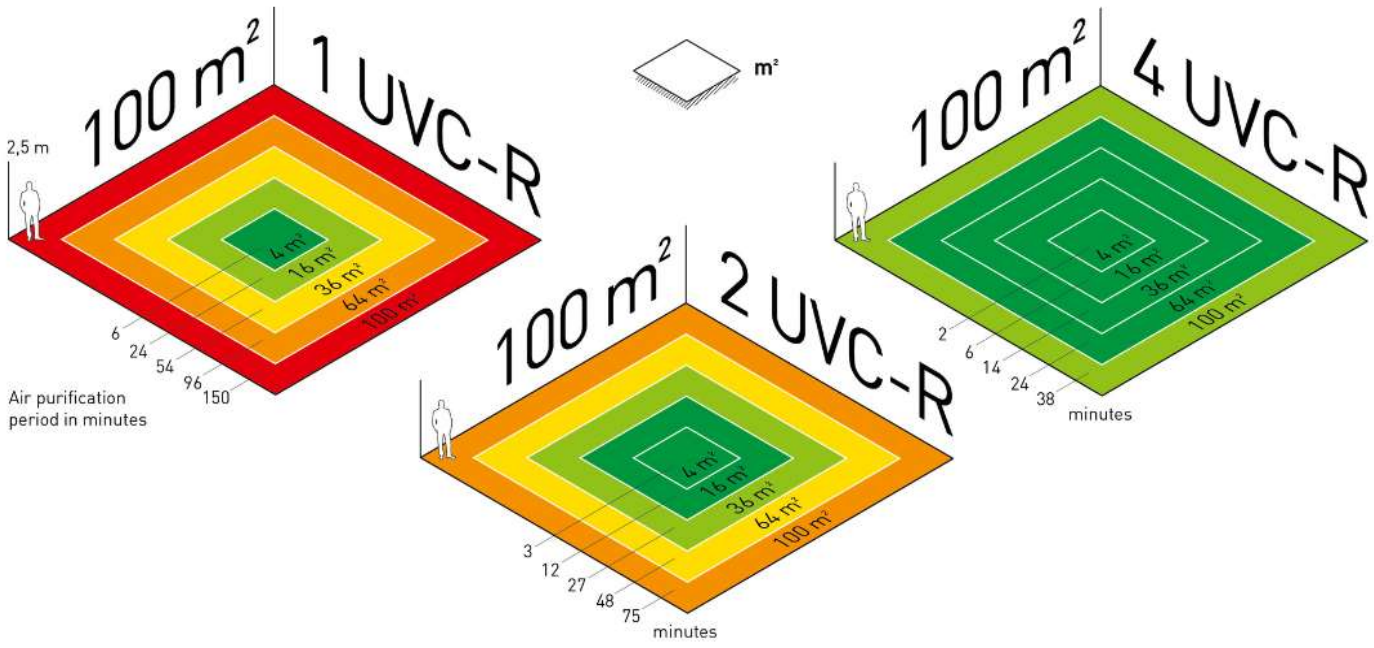
HEPA filters (High-Efficiency Particulate Air), filter germs from the room air. The classifications define the filter characteristics, but to ensure these, a high-volume flow rate is required. This means that the fans have to run at high power all the time to force the air through the filters. This leads to faster wear of the fans and regular replacement of the contaminated filters in order to maintain the high protective function. With UV-C systems, this high maintenance requirement is eliminated because the air flow is not obstructed. The operating costs of a UV-C system are therefore at least 75% lower than for a HEPA filter system.

EFFICIENCY IN THE ROOM

The Durst Habitat center disinfection zone measures 4 x 4 x 2.5 meters. However, Durst points out that no specific statements about square meters or volume size can be given as a general answer in terms of efficiency, as the efficiency depends on many factors such as temperature, air flows in the room, ceiling height, number of people, etc.

Therfore Durst gives the following example for the efficiency: 4 people sit at a table and are surrounded by a volume of 8 m3. Each person inhales and exhales about 0.5 m3 of air per hour, a total of 2 m3. Durst Habitat disinfects 12.5 times this volume or 25 m3 in 15 minutes and 50 times the breathing volume of 4 people or 100 m3 in one hour.

If the Habitat is placed in a larger room, a constant mixing of the room air around the disinfection center is taking place, which means that by the permanent release of purified air the viral load is reduced even outside the central zone.



PROVEN EFFICIENCY

EXTRACT FROM THE OFFICIAL TEST PROTOCOL OF "GELT INTERNATIONAL":

" The test is conducted according to the requirements, as far as applicable, of technical standard ***ISO 15714:2019 Method of evaluating the UV dose to airborne microorganisms transiting in-duct ultraviolet germicidal irradiation devices****.*

…

In paragraph 6 the technical standard ISO 15714:2019 reports the different test microorganisms and for each one the UV-C inactivation doses.

…

The resulting inactivation rate of Durst HABITAT is:

1-(N /N0) (%) > 99,9 %"

GELT INTERNATIONAL
scientific consulting

CURRENTLY AVAILABLE MODELS

DURST HABITAT 100H

SPECIFICATIONS*

Power Consumption	250 W
Supply Voltage	230 V
Dimensions (w x h x d)	776 mm x 1651 mm x 92 mm
Dimensions (with pedestal)	776 mm x 1651 mm x 500 mm
Max. Volumetric Flow	100 m3/h
Volume (1 m distance)	35 dB(A)
Wavelength UVC-Source	254 nm
Live Span UVC-Source	9000 h
Weight	45 kg

***Specifications may vary**

PRICES

Order Code	*Description*	*Price***
AE81030	DURST HABITAT 100H	2.400,00 EUR
Web Shop	PERSONALIZED FABRICS HABITAT 100H	70,00 EUR
1873861	DURST HABITAT SPARE UV-C LAMP	16,00 EUR

DISCOUNT

1-4 units	0%
from 5 units	5%
from 10 units	10%

**All prices are net-prices, excl. VAT and shipping costs

CURRENTLY AVAILABLE MODELS

DURST HABITAT 100V

SPECIFICATIONS*

Power Consumption	250 W
Supply Voltage	230 V
Dimensions (w x h x d)	380 mm x 1280 mm x 132 mm
Dimensions (with pedestal)	480 mm x 1280 mm x 480 mm
Max. Volumetric Flow	100 m3/h
Volume (1 m distance)	35 dB(A)
Wavelength UVC-Source	254 nm
Live Span UVC-Source	9000 h
Weight	20 kg

***Specifications may vary**

PRICES

Order Code	*Description*	*Price***
AE81021	DURST HABITAT 100V	1.950,00 EUR
Web Shop	PERSONALIZED FABRICS HABITAT 100V	40,00 EUR
1873861	DURST HABITAT SPARE UV-C LAMP	16,00 EUR

DISCOUNT

1-4 units	0%
from 5 units	5%
from 10 units	10%

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