



Simply safer with UVC air disinfection

Reliably inactivates influenza and coronaviruses
(for example SARS-CoV-2 and its mutations), bacteria
and many other germs



SteriWhite Air
Q115 / Q330 / Q600 / Q900

SteriWhite Air Q – reliable air disinfection



Why is it so important to disinfect room air?

SARS-CoV-2 viruses are primarily transmitted via **aerosols** emitted into the surrounding air when we breathe. UVC ambient air disinfection systems are an effective method of reducing the germ load in the environment – and not only during the Corona pandemic!

UVC

How does UVC disinfection work?

When aerosols are exposed to UVC radiation with a wavelength of 254 nm, the viruses they contain (coronaviruses and influenza viruses, to name but a few), bacteria and mould spores are inactivated and rendered harmless.

The high disinfection power of UV radiation has been scientifically proven for decades, and its effect on coronaviruses has also been amply confirmed. The disinfection of the air and surfaces with UVC radiation safely and efficiently minimises the risk of infection with SARS-CoV-2 and other pathogens.

Chemical-free UVC disinfection has been used successfully for many years in food production, water treatment and health care (e.g. in hospitals and laboratories).



What is the difference between HEPA filters and disinfection of the ambient air using UVC?

UVC air disinfection units do not require filter systems. No regular replacement of expensive filters is necessary. Replacing the UVC lamp is easy and only becomes necessary after approx. 16,000 operating hours.

The products in the SteriWhite Air Q series are particularly maintenance-friendly, energy-efficient and quiet.



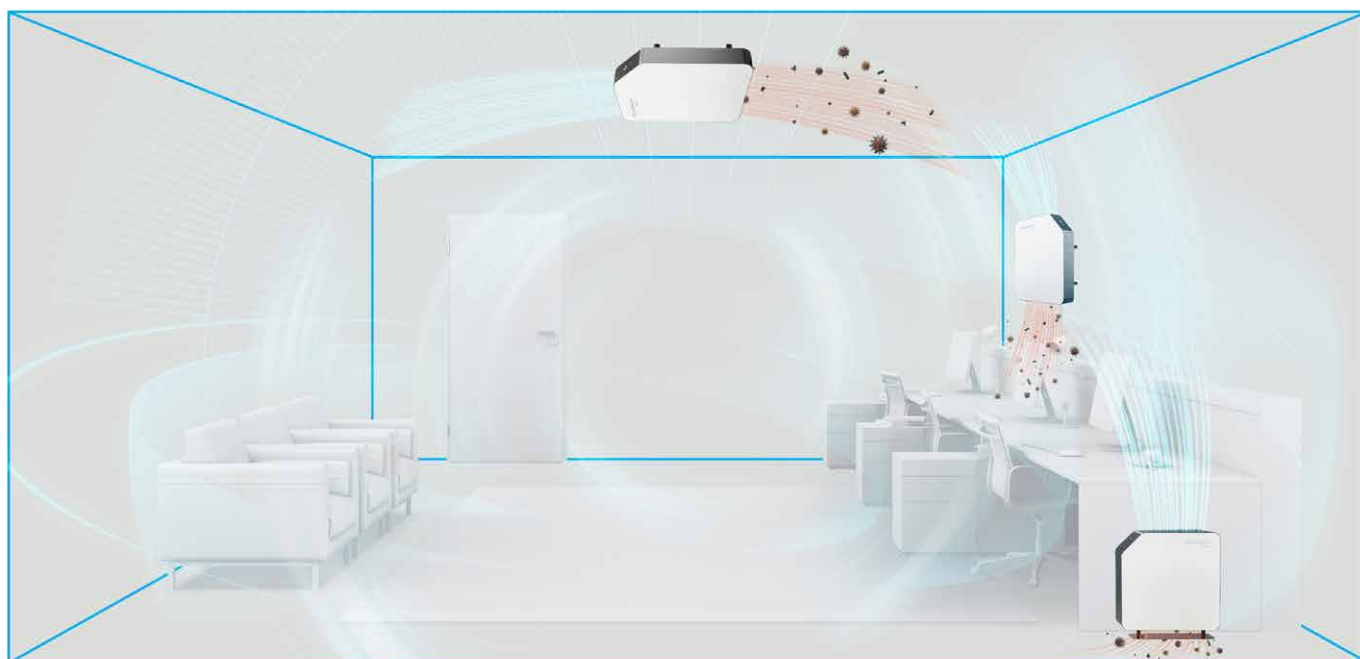
How does SteriWhite Air Q work?

SteriWhite Air Q is a highly efficient UV system for air disinfection. Extremely low-noise fans actively route the germ-laden air into the interior of the unit, where it flows past UV lamps. Air volume, flow speed and UVC dosage are coordinated perfectly to achieve excellent inactivation rates.



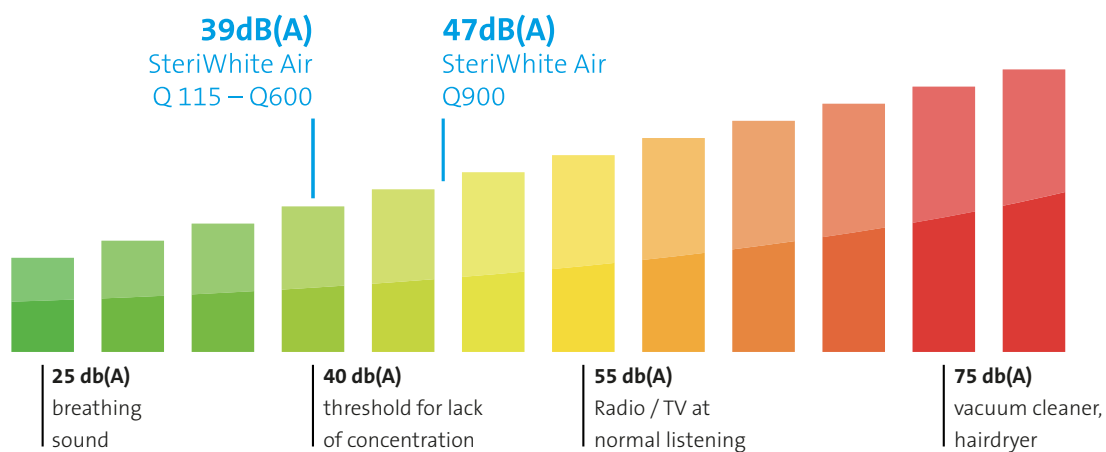
How easy is operation and handling?

- Plug & Play
- Base stand or simple installation on the ceiling or wall;
we would be happy to advise you on the ideal positioning of the units.



The graphic shows three possible installation locations as an example. SteriWhite Air Q ensures continuous air circulation in closed rooms in order to achieve maximum inactivation of aerosol-bound viruses, bacteria and mould spores.

With its elegant design and extremely **quiet operation**, the SteriWhite Air Q fits unobtrusively yet highly effectively into your rooms.



SteriWhite Air Q – reliable air disinfection



Isn't it enough to open the windows regularly to ventilate rooms?

Opening windows and doors produces an exchange of air in the short term, but after this brief period, the germ or virus load increases again. In contrast, SteriWhite Air Q ensures continuous circulation and disinfection of the air, thus reducing the germ concentration sustainably. A combination of the two measures is ideal (see table **Air cleansing concept on page 7**).



Do I have to vacate the room while the air is being disinfected?

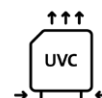
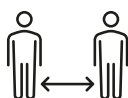
Not necessary, because SteriWhite Air Q was developed specifically for use **in occupied** rooms. According to the values measured by an external lighting laboratory, the units fall within the category free of risk as defined by DIN EN 62471 and thus pose no photobiological hazard.

- Produces neither ozone nor other harmful substances
- Safe housing
- Free of chemicals



Do I still need to comply with the hygiene regulations?

Yes, please continue to follow the current hygiene rules. However, UVC air disinfection does reduce the risk of infection considerably!



What about when the Corona pandemic is over?

The SteriWhite Air Q will continue to reduce the risk of infection with viruses (for example flu viruses), bacteria or other germs.



Where is SteriWhite Air Q used?

Due to their easy handling and high safety standard, the units can be used anywhere, in particular in places where increased safety and low noise emissions are important, such as:

- Doctor's surgeries, hospitals
- Offices, meeting rooms and welfare areas
- Health care facilities such as retirement and nursing homes
- Day nurseries, schools and educational institutions
- Reception and waiting areas
- The catering and hotel industry
- Stores and the retail trade

We also offer other units, which are used, for example, in production halls. Ask for details!





Scientific studies on UVC disinfection

Various studies confirm the high effectiveness of UVC disinfection – here are a few:

Study of inactivation on SURFACES

2020, Goethe-Universität Frankfurt, Dr. Hönle AG, Test series on the inactivation of SARS-CoV-2 by UV radiation.

Result: Inactivation rate achieved in the laboratory: 99.99 %.

Study of inactivation in AEROSOLS

2012, Harvard School of Public Health Boston, Mcdevitt, James & Rudnick, Stephen & Radonovich, Lewis. Aerosol Susceptibility of Influenza Virus to UV-C Light.

Result: Inactivation rate achieved in the laboratory: 98.2 %

2020, Columbia University of New York, Buonanno, Manuela & Welch, David & Shuryak, Igor & Brenner, David. Far-UVC light (222 nm) efficiently and safely inactivates airborne human coronaviruses.

Result: Inactivation rate achieved in the laboratory: 99.99 %

Conclusion:

The disinfection power of UV radiation is scientifically proven, also with regard to its effectiveness against coronaviruses.

Current scientific studies indicate that **mutations of coronaviruses** are also reliably inactivated by UVC radiation.

2020, Technische Hochschule Ulm, Hessling, Martin & Hönes, Katharina & Vatter, Petra & Lingenfelder, Christian. Ultraviolet irradiation doses for coronavirus inactivation.



Quality in accordance with industry standards – Dr. Hönle AG

Dr. Hönle AG has been developing and producing UV systems since 1976 and is one of the world's most successful suppliers of UV technology, including technology for disinfection processes. In 2020, Sterilsystems GmbH, a company also specialising in UV air disinfection, joined the group.

Technical data

Model	Q115	Q330	Q600	Q900
Air flow* m³/h	approx. 115	approx. 330	approx. 600	approx. 900
Dimensions** (HxWxD) in mm	600 x 600 x 100	860 x 860 x 210	860 x 860 x 315	860 x 860 x 315
UVC lamp operating hours in h	up to 16,000	up to 16,000	up to 16,000	up to 16,000
Supply voltage	230 V / 50 Hz	230 V / 50 Hz	230 V / 50 Hz	230 V / 50 Hz
Power consumption in watts	approx. 60	approx. 200	approx. 300	approx. 450
Noise level dB(A) at a distance of 1 metre	< 39	approx. 40	approx. 40	approx. 47
Weight in kg	approx. 15	approx. 39	approx. 49	approx. 49

* with standard room air: 20 °C, 50 % air humidity

** housing size without base stand or wall bracket; dimensions vary according to unit version.

Hönle air cleansing concepts

Which SteriWhite Air Q units and how many units you require for your rooms depends on various factors.

The table below provides an initial overview as an example.

We would be happy to provide personal support in defining your exact requirements.

Example room	Meeting room		Office for 2 persons		Doctor's waiting room		Office for 4 persons		Classroom		Restaurant	
Room area [m²]	25 m²		25 m²		25 m²		45 m²		70 m²		100 m²	
Room volume [m³]	63 m³		63 m³		63 m³		113 m³		175 m³		250 m³	
No. of persons [#]	6		2		3		4		25		35	
Duration of occupancy [h]	2 h		7 h		1 h		7 h		2 h		2 h	
Unit selection	1x Q115	1x Q330	1x Q115	1x Q330	1x Q115	1x Q330	1x Q330	1x Q600	1x Q600	2x Q600	1x Q900	1x Q900 1x Q600
Air cleaners reduce the risk of infection by [%]	> 70 %	> 80 %	> 70 %	> 80 %	> 70 %	> 80 %	> 70 %	> 80 %	> 70 %	> 80 %	> 70 %	> 80 %
Air cleaners + 1x periodic ventilation reduce the risk of infection by [%]	> 80 %	> 90 %	> 80 %	> 90 %	> 80 %	> 90 %	> 80 %	> 90 %	> 80 %	> 90 %	> 80 %	> 90 %
STERIWHITE AIR Q115				STERIWHITE AIR Q330				STERIWHITE AIR Q600				STERIWHITE AIR Q900

Based on "COVID 19 Aerosol Transmission Risk Calculator" of the Max Planck Institut für Chemie: <https://www.mpic.de/4747361/risk-calculator>

Assumptions: Room height= 2.5 m; persons performing sedentary work; persons not wearing face masks; percentage of time talking 20 %; example calculation office for 4 persons: Risk of at least one further person being infected if one person present is highly infectious; without air cleaner 50 %, with Q600 air cleaner 6.6 %, which means a reduction in the risk of infection of >80 %



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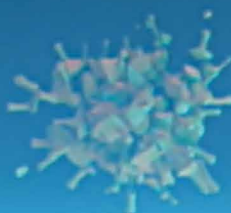
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Products of Dr. Hönle AG – UV-Technology,
distributed by LEDVANCE

LEDVANCE GmbH
Parkring 29 – 33
85748 Garching, Germany
kundenservice@ledvance.com
Phone +49 89 780673-100

All technical and process-relevant data depend on the specific application and may vary from the data provided here. Subject to technical change without notice.

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SteriWhite Air Q115 / Q330 / Q600 / Q900

- Extremely quiet, no annoying air currents
- Energy-efficient
- Low-maintenance
- Easy operation
- Modern design
- Made in Germany