



**AIR TECH
SYSTEMS**

LTG Comfort Air Technology

LTG Process Air Technology

LTG Engineering Services



UVC

SterilVentilation

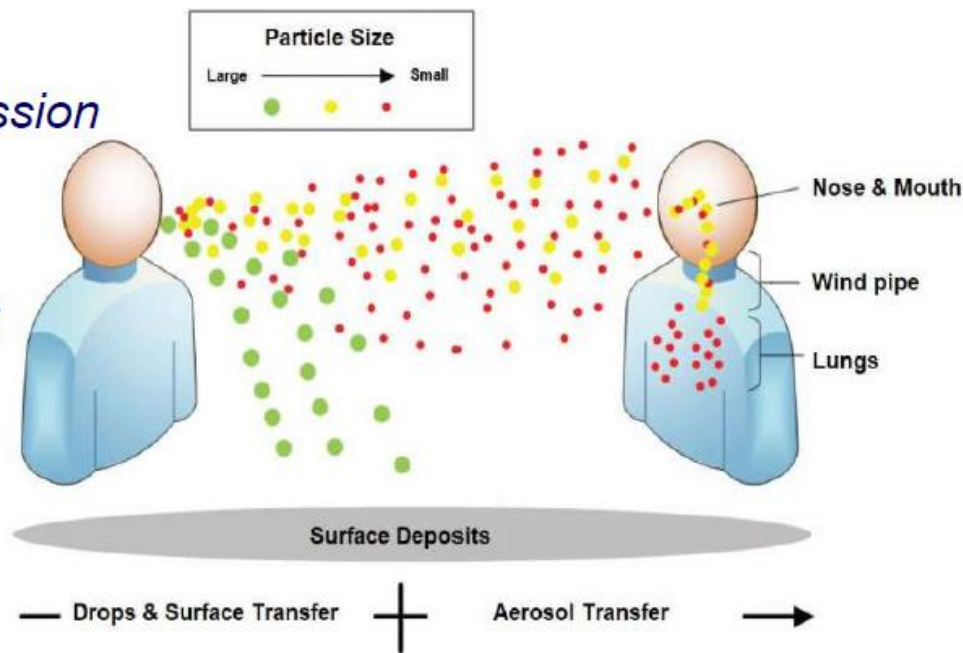
In rooms with multiple people, there is always a risk of infection as the transmission of the virus, without the use of a 'Mask' cannot be prevented.

Viruses can be contacted, without direct physical contact between people, via three routes:

- 1) Contact surfaces
- 2) Drops (saliva, sweat etc.)
- 3) Aerosols (nuclei)

The results from laboratory tests on artificially produced SARS-CoV-2 aerosols - particles can survive for up to 16 hours !

Restaurant in China



The LTG UVC *SterilVentilation* helps to reduce the risk of contracting airborne (aerosol) viruses (e.g. Covid-19 and influenza). Ideal for retrofitting in any room irrespective of any existing HVAC system.

steril
ventilation



- The high-efficiency low pressure UV-C emitter and airflow recirculation rate within the LTG unit has been specifically engineered to work in a matter of seconds against the Covid-19 pathogen SARS-CoV-2 to achieve a **disinfection rate of 99,99 % (log 4)** (as tested in accredited S3-laboratory, Goethe University Frankfurt)
- **Fast & reliable, ozone and chemical free disinfection** of the recirculated ambient room air (patent pending)
- **Silent and effective room diffusion** with proven LTG tangential airflow technology for up to 140 cfm per unit
- **Simple protection of people** through verified filterless recirculation of room air past the lamp emitter which is shielded to prevent UV-C light spill into the room.
- **Independent of existing HVAC system**, just need a power supply and an on/off switch, **simple installation** into T-bar ceilings with suspension brackets



self-sterilizing
no filters to
change



UV-C
Protection



low noise &
24 hr. operation



room
recirculation



trusted German
know how &
engineering

Operating mode

The UVC SterilVentilation is a maintenance free and ready to plug in sterilization unit for recirculated air. A quiet 2-speed LTG tangential fan pulls air from the room into the shielded housing. Inside the housing a high-performance UV-C low pressure emitter will sterilize up to 99.99 % of germs such as SARS-CoV-2, influenza etc. .

Each UV-C-tight enclosure is tested and measured in certified laboratory, ensuring a hazard-free operation. The filterless design minimizes maintenance and could allow for 16,000 hours of non-stop operation (this also removes the potential risk of having to periodically replace potentially COVID laden filters).

In contrast to comparable solutions, the proven LTG air flow technology provides effective room distribution and as a result, the entire room recirculated air is reliably disinfected.

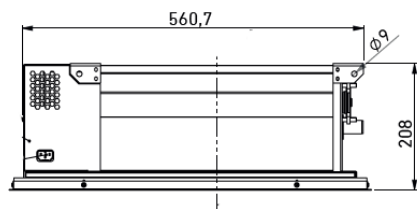
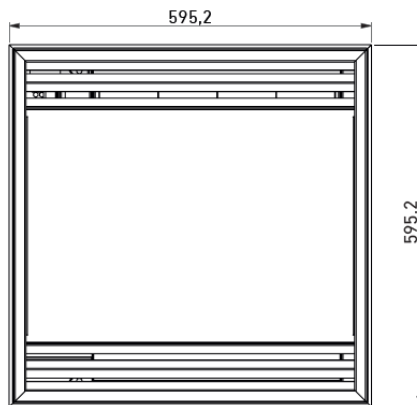
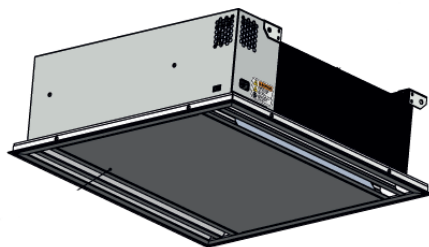


Effective room perfusion guarantees max. decontamination of aerosol attached viruses

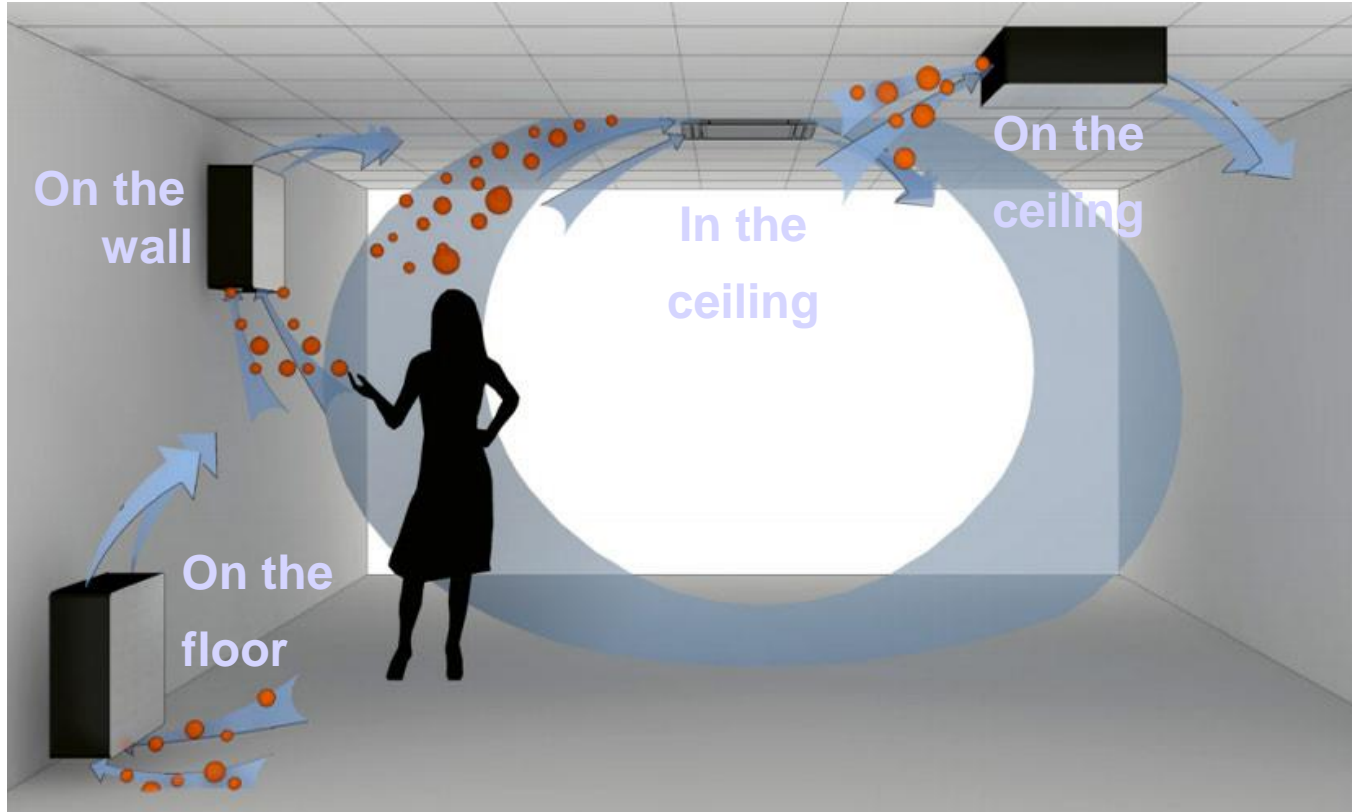
It is well known that the risk of infection by viruses, bacteria and mold spores increases if the spaces are inadequately ventilated with fresh (outside) air. The problem increases exponentially in highly occupied areas (e.g. office and meeting rooms, waiting rooms, K thru 12 classroom, restaurants, and fitness / sports facilities etc.) where there is poor or inadequate ventilation. The LTG UVC SterilVentilation was developed for these commonly used spaces, an innovative, patent pending device that reliably sterilizes airborne pathogens such as COVID-19, which might otherwise remain contained in the room air and passed from person to person.

Features

- Ozone and chemical free – invisible, natural, odorless radiation from high powered UV-C low pressure emitters (wavelength 254 nm)
- Germany engineering – proven high quality comfort air and UV-C components & measured recirculation volume based on disinfectant rates measure within S3 laboratory
- Low maintenance non-stop operation, unit is 'filterless' as this avoids the risk of having to swap out, and dispose of, potentially COVID laden contaminated filters
- Simple installation, no special knowledge required (plug and play)
- Power isolation of lamp ensured by design for maintenance replacement
- Certified shielding of the UV-C emitter according to DIN EN ISO 15858 ensures hazard-free operation in the presence of humans
- 2-speed operating mode (Silent-/Max-Mode), selectable depending on the application
- LED display for optical function monitoring



Paramter	Data
L x W x H	595 x 595 x 210 mm 620 x 620 x 210 mm
Air Flow Rate (max.)	250 m3/h
Sound Pressure Level Lp	* 35 (43 **) dB(A)
Electr. Power	70 W
Voltage	230 V / 50 Hz
Protection Class	IP 20
Mass	11 kg
Lamp LifeTime	up to 16 000 h



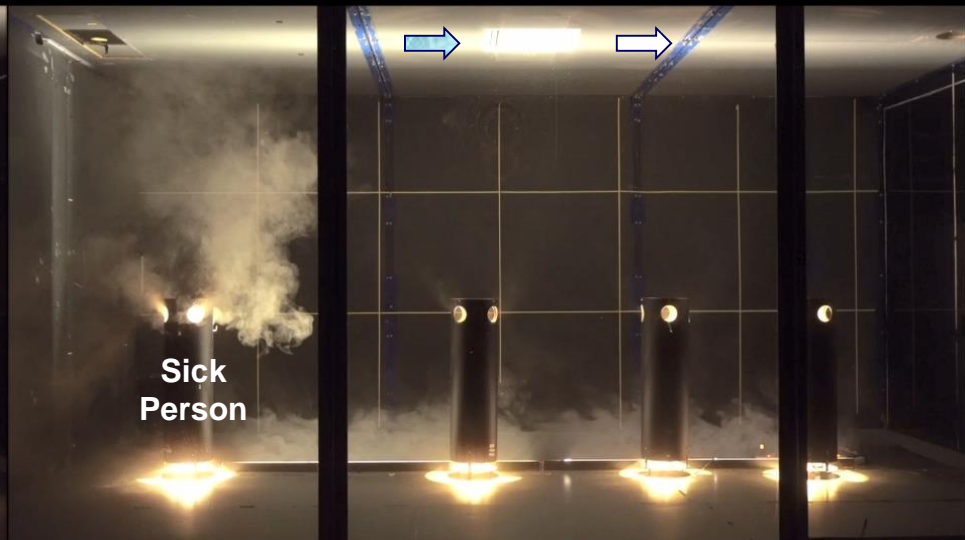


**Light chamber
with UV-C lamp**

w/o UVC unit



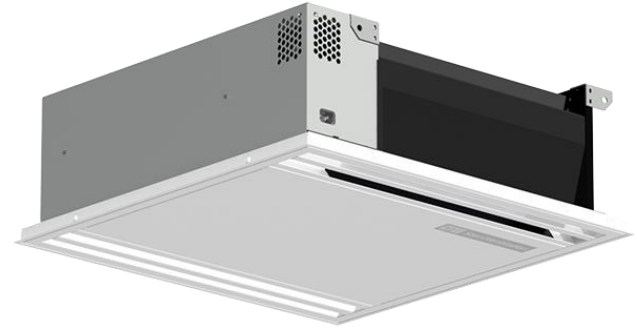
with UVC unit







vertical



horizontal

Ceiling Unit

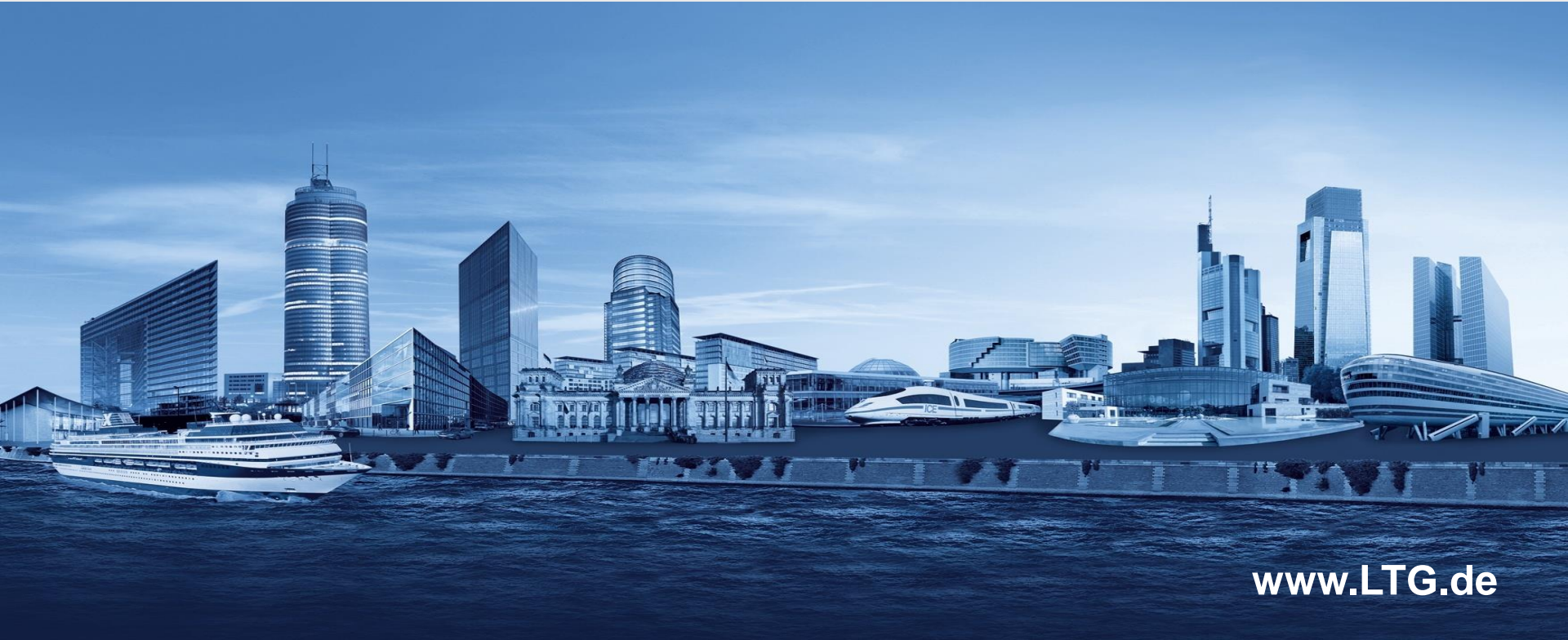




**Innovative Solutions
for Humans and Products.**



**AIR TECH
SYSTEMS**



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