



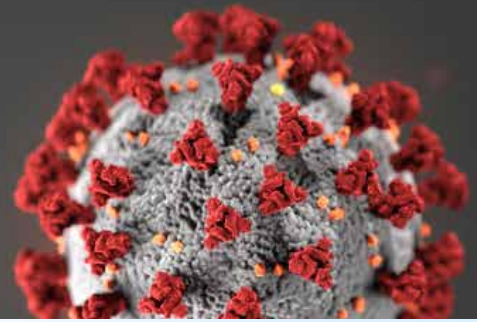
**EFFECTIVE
AIRBORNE
VIRUS
REDUCTION
24/7**



STOP CORONAVIRUS FROM SPREADING

**DOCUMENTED OVER 99.9% REDUCTION OF
AIRBORNE VIRUS**

MAC500s REDUCES VIRUS IN THE AIR SIGNIFICANTLY



Authorities are shutting down factories to avoid spread of disease, people are warned about gathering in large crowds and people are afraid of traveling on public transportation and cruise ships. Unfortunately, The Coronavirus is paralyzing many businesses, but fortunately, we can help.

JIMCO A/S specializes in providing proprietary and environmentally friendly air purification technologies and has a broad portfolio to combat the spreading of the coronavirus or any virus for that matter.

JIMCO technology, based on UV-C and ozone, which is a natural way to reduce and eliminate unwanted viruses and bacteria.

The MAC500s air purifier works partly by burning harmful particles such as viruses with the help of UV-C rays, and partly by dispersing a small amount of ozone, which can destroy bacteria and viruses.

The amount of ozone produced is equal to the amount occurring in nature, and the method can be compared to the process taking place in a swimming pool when chlorine is added to reduce bacteria in the water. But the MAC500s is environmentally friendly and does not use chemicals. Instead, we use safe levels of ozone.

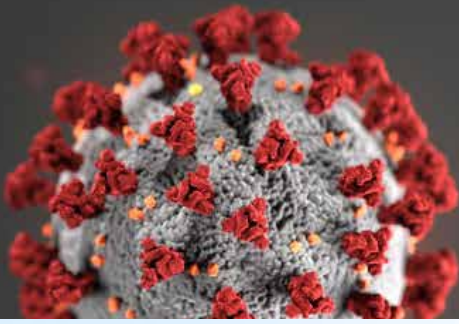
Several studies have shown that SARS-CoV2 (the virus that causes the disease COVID-19) can infect us through the air and Governments are starting to wake up and realize that the battleground has changed.

**The perfect
weapon
to combat
airborne
virus**



**The environmentally friendly
MAC500s reduces viruses in the air quickly and significantly.**

- ✓ Effective reduction on SARS-CoV2 in an aerosol state (*microdroplets in the air*)
- ✓ Reduction of 90 % in 1 hour and 99 % after 2 hours * (*MS2 which is 7-10 times more resistant than coronavirus*)
- ✓ No use of any chemicals or filters
- ✓ Safe to use 24/7 in occupied spaces
- ✓ Easy to use and only needs a standard 110vac outlet to operate
- ✓ Significantly improves indoor air quality
- ✓ Tested in a well recognized Danish laboratory (Test Details are available)



WE ARE COMBATTING
THE PANDEMIC

REDUCTION OF VIRUS IN THE AIR



MAC500s

reduces the amount of bacteria, viral disease, mould and fungi within the room and does not produce any NOx.

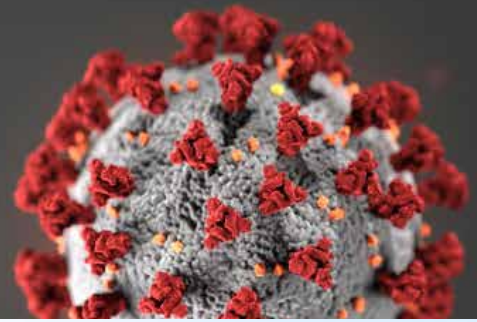
MAC500s

reduces indoor air pollution and eliminates the sources of headaches, respiratory problems, fatigue, COPD and asthma.

MAC500s

is designed for use 24/7 and to effectively decrease the spreading of any disease in rooms and areas where people are present.

MAC500s REDUCES AIRBORNE VIRUS EFFECTIVELY



“ Airborne transmission of SARS-CoV-2 can occur under special circumstances. ”

i CDC

“ The balance of attention must be shifted to protecting against airborne transmission. ”

“ There is overwhelming evidence that inhalation of severe acute respiratory syndrome coronavirus 2 (SARS-CoV-2) represents a major transmission route for coronavirus disease 2019 (COVID-19). ”

i American Association for the Advancement of Science

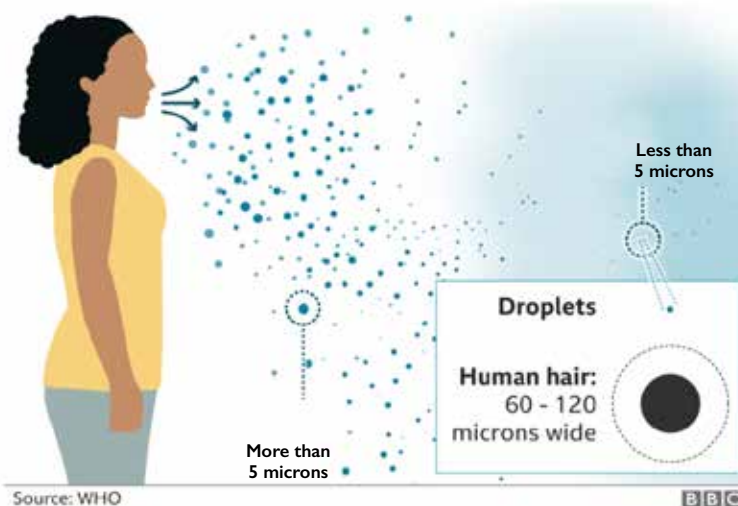
THE DIFFERENCE BETWEEN DROPLET AND AIRBORNE TRANSMISSION

Droplet transmission

Coughs and sneezes can spread droplets of saliva and mucus

Airborne transmission

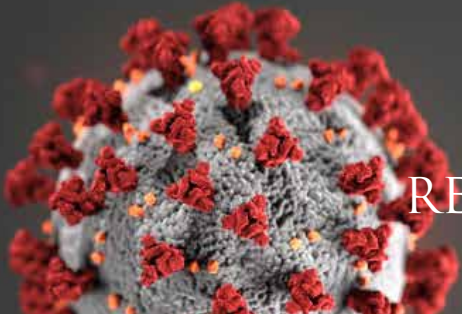
Tiny particles, possibly produced by talking, are suspended in the air for longer and travel further.



“ Viruses in aerosols (smaller than 100 μm) can remain suspended in air for many seconds to hours, like smoke, and can be inhaled. They are highly concentrated near an infected person, so they can infect people most easily in close proximity.

But aerosols containing infectious virus can also travel more than 2 m and accumulate in poorly ventilated indoor air, leading to superspreading events. ”

i Science, 16 October 2020



DOCUMENTED EFFECT ON REDUCTION OF VIRUS IN THE AIR

HOW LONG THE CORONAVIRUS CAN LIVE IN THE AIR AND ON SURFACES



Cardboard: Up to 24 hrs.



Plastic: Up to 72 hrs.



Stainless steel: Up to 72 hrs.



Air: Up to 3 hrs.



Copper: Up to 4 hrs.

DOCUMENTED EFFECT

A study from a well recognized laboratory in Denmark states that the Danish-developed air purifier MAC500s effectively reduces viruses from the air. In a 20 m3 room where the air purifier is in use, the virus is reduced by 89 percent within the first hour.

The study documents that the air purifier MAC500s reduces viruses in the air by 89 % in one hour. After two hours, the virus is reduced by 99 percent, and after three hours, the reduction is 99.9 %.

The test was performed on a bacterium infected with the MS2 virus. Coronavirus is 7-10 times more susceptible to UV light than MS2 bacteriophages. This means that the virus on which the test was performed on is more difficult or as difficult to degrade as SARS-CoV2 (the virus that causes COVID-19). *

The effect has been compared to pathogens that are 3x and 5x more susceptible than the virus MS2. The reduction will then very quickly reach 100% as shown in table 3 and figure 4. on page 9 in the full report.



READ THE FULL REPORT HERE:





Jimco A/S
Mjølbyvej 7
DK-5900 Rudkøbing

Teknologiparken
Kongsvang Allé 29
8000 Aarhus C
Denmark
Phone +45 72 20 20 00
info@dti.dk
www.dti.dk

5th of October 2020

Declaration of test and assessment

Danish Technological Institute has performed tests of the efficiency for inactivation virus of the Jimco MAC500 air purifier.

The test was conducted with the unit installed in a 20 m³ sealed room. The efficiency of the air purifier was tested using MS2 bacteriophages (ATCC 15597-B1) on host *Escherichia coli* (ATCC 15597) as a virus surrogate. The rate of inactivation of the aerosolized MS2 was determined as the difference between the natural inactivation rate and the inactivation rate measured during the use of the Jimco MAC500 air purifier. These inactivation rates were determined by sampling of the air in the chamber over a 2-hour period. The significant and consistent difference between the Natural decay test and the Product test clearly shows a reduction of the concentration of airborne and active MS2 caused by the air purifier.

Based on the measured inactivation efficiency of the MAC500, the reductions in % and in log-reductions are calculated and are found in the table below:


Product attribution	1 hour	2 hours	3 hours
Reduction, %	89% ± 8%	99% ± 2.3%	99.9 ± 0.5%
Log-reduction (base 10)	0.97 ± 0.24	1.93 ± 0.47	2.9 ± 0.71

The full testing procedures and results are presented in report no. 933322.

According to Kowalski* and Walkert† the UV-susceptibility for bacteriophage MS2 is lower than the UV-susceptibility for the enveloped virus, vaccinia virus. Hence, the indicated efficacy of the tested MAC500 UV-C device to degrade the bacteriophage MS2 will be at least similar to the efficacy against enveloped vaccinia virus. Efficacy against vaccinia virus allows for a claim for efficacy against all enveloped viruses (e.g. MERS-CoV, SARS-CoV-1 and SARS-CoV-2) according to DS/EN 14885:2018.

* Kowalski W. Ultraviolet Germicidal irradiation Handbook. Springer 2009

† Walker and Ko, ENVIRONMENTAL SCIENCE & TECHNOLOGY / VOL. 41, NO. 15, 2007

Best regards,

Casper Laur Byg, PhD, **Bioengineering and Environmental Technology**
Life Science, Danish Technological Institute
Kongsvang Allé 29
8000 Aarhus C, Denmark
Bioengineering and Environmental Technology
Danish Technological Institute

THE COVID-19 BATTLEGROUND HAS CHANGED
THE WAR OF COVID-19 HAS MOVED FROM SURFACES TO AIR



CLEAN ENVIRONMENT USING THE FORCES OF NATURE



CLEAN AIR



EASIER BREATHING



ENVIRONMENTALLY FRIENDLY
AIR PURIFICATION



NO USE OF CHEMICALS



REDUCES FUNGAL SPORES



JIMCO A/S recommends placing a MAC500s in all rooms and areas where people are present and especially where the risk of disease spreading is high.

TECHNICAL DATA

UV lamp: 1x8 w
Voltage: 230 V

Power consump: 25 w
Operating lamp: 8000 hours
Room area: 60 m³

Length: 310 mm
Height: 90 mm
Width: 90 mm

The MAC500s must be placed as high as possible in the room and can cover an area of 60 m³.



Phone: (949) 812-9729
Email: Sales@ppiwest.net
www.workplacehygienesolutions.com

Pacific Packaging and Inspection