

JIMCO®

UV-C & OZONE
Technology

#chemicalfreeworld



MAC500S

ALL IN ONE BROCHURE

KEEP AIR AND SURFACES CLEAN



JIMCO.DK



INNOVATION AND DRIVE

JIMCO A/S is the company behind some of the world's most unique air purification and surface disinfection solutions.

Since designing its very first air-cleaning unit in 1993, JIMCO has not looked back. Today, the company supplies its products to a large number of industries and institutions world-wide. Its customer base comprising factories within the food industry, commercial kitchens, schools and nursing homes.

In brief, JIMCO undertakes all types of projects – large and small.

JIMCO A/S combines common sense with innovative thinking as the basis for the company's unique products. It is no coincidence that JIMCO supplies air-treatment units to some of the biggest chains in the world.

DYNAMIC FILTERLESS AIR & SURFACE PURIFIERS THAT REDUCES BACTERIA, MOLD, ODOR, AND 99.9 % OF VIRUSES WITHOUT THE USE OF CHEMICALS

The JIMCO technology is utilizes a two-step environmentally friendly cleaning technology called photolytic oxidation.

The JIMCO Technology is a Dynamic System that actively kills and deactivates airborne pathogens in the room where it is operating.



MAC500s series

MISSION

JIMCO strives to increase awareness of environmentally friendly solutions and to accelerate their implementation, thus striving to make the world chemical-free without compromising the result.

JIMCO uses the forces of nature to re-create an environmentally friendly chemical-free process for air purification, water purification, and surface disinfection which is applicable in many different industries.

We fight VOC's, bacteria, viruses, mold, yeast, food waste, chemicals, fire risk, and bad odor through our environmentally friendly solutions because our customers can achieve far better results using our products than using chemicals.

**QUALITY
TESTED**

**DOCUMENTED
EFFECT**

**RELIABLE
PARTNER**

**30 YEARS
EXPERIENCE**

VISION

- To make our environmentally friendly solutions available all over the world for all industries and households.
- To educate people, governments, and authorities on the substitute solutions with better, faster, and environmentally friendly results rather than chemicals.
- To have a chemical-free world without compromising the result.



- For occupied spaces
- 24/7 use
- Filterless



MAC500s

DYNAMIC AIR PURIFICATION



ENVIRONMENTALLY FRIENDLY DYNAMIC AIR PURIFICATION

MAC500s ACTIVE Decontamination Process

Product Benefits:

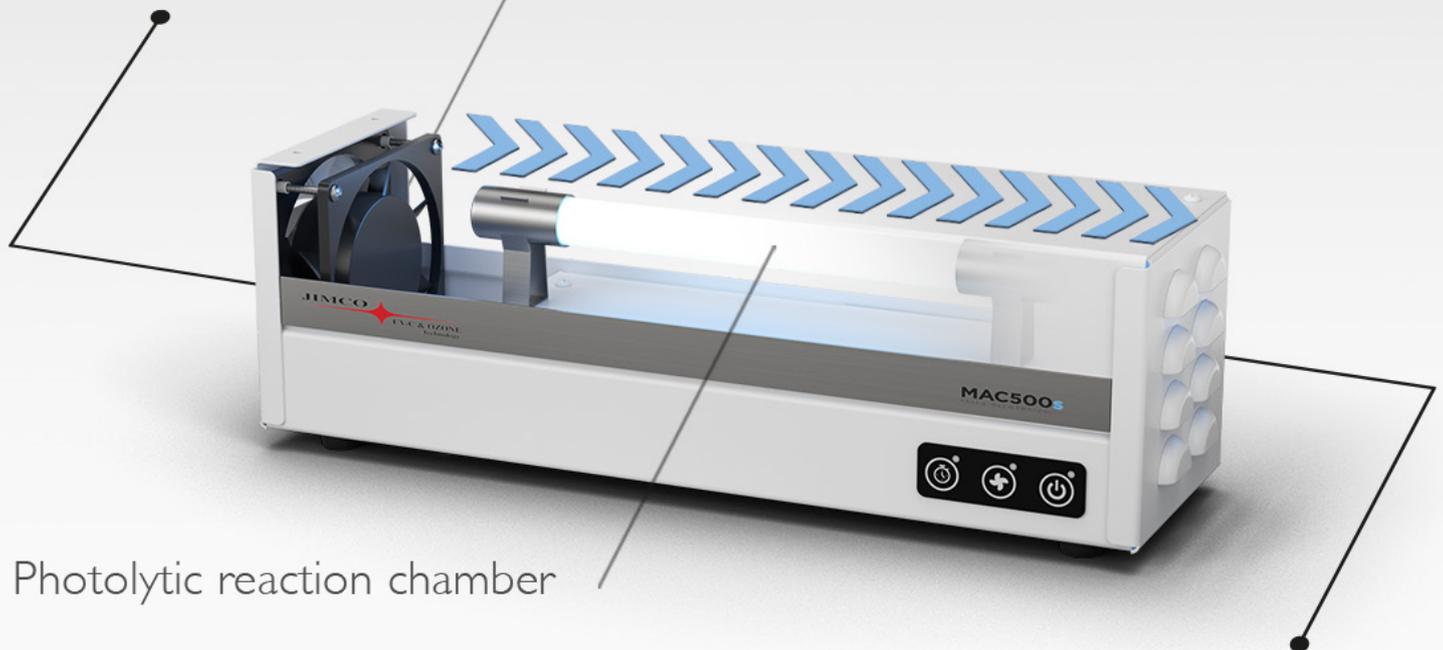
Light weight

NO frequent filter change

Very low energy consumption

O₂ Enters
(Non activated oxygen)

Extra silent fan



Photolytic reaction chamber

O₃ Discharges
(Activated oxygen)

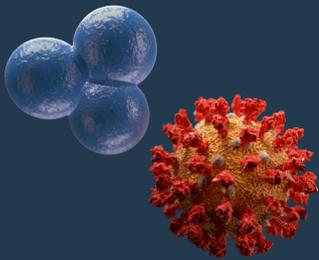
Deactivates COVID-19 virus and all variants with 99.99%,
and actively reduces any organic particles such as:



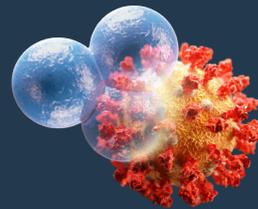
DYNAMIC Air Purification



1.



2.



3.



4.



ACTIVE OXYGEN DESTROYS AND DEACTIVATES
COVID-19 VIRUS AND ALL VARIANTS WITH 99.99 %*

*Reduction rate depends on room size

MAC500s
DYNAMIC
Air Purification



**STOP CORONAVIRUS
FROM SPREADING**

DOCUMENTED EFFECTIVE AIRBORNE VIRUS REDUCTION

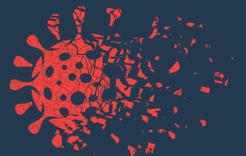
STOP CORONAVIRUS FROM SPREADING

CREATE A VIRUS FREE ZONE FOR YOUR EMPLOYEES



Deactivates COVID-19 virus
and all variants **with 99.99 %**
per hour in 1198 ft³/34 m³*

*Reduction rate depends on room size



FRESH AIR

- AND ELIMINATION OF BACTERIA

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

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



MAC500s

reduces the amount of bacteria, viruses, mould and fungi within the room and does not produce any NO_x.

MAC500s

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

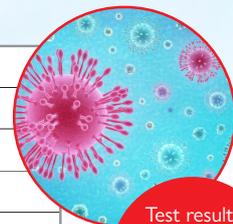
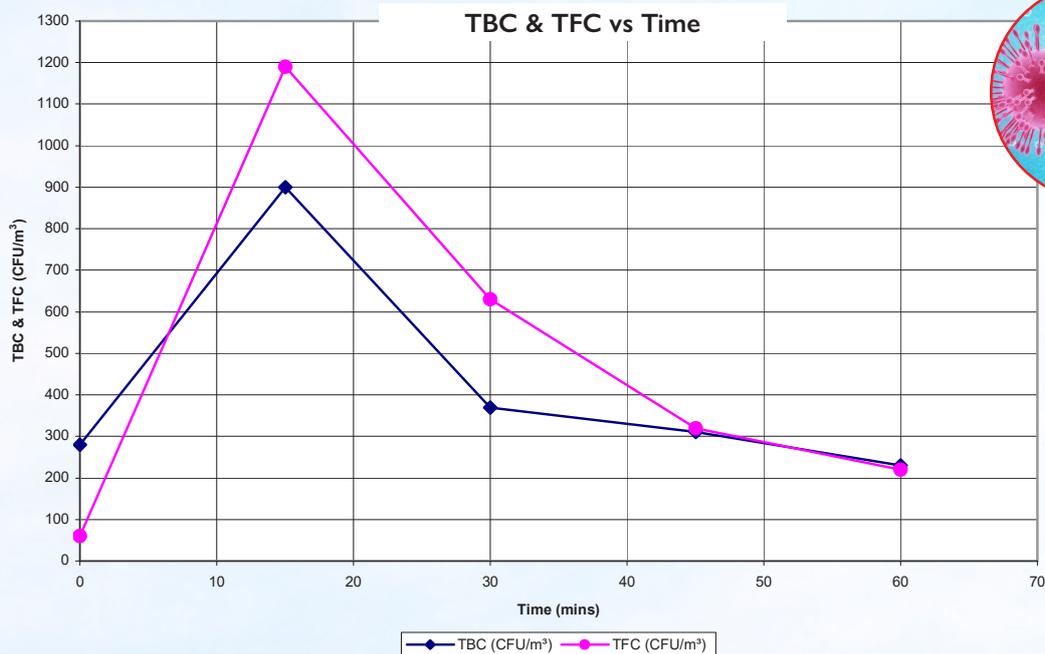
MAC500s

is designed to effectively decrease the spreading of any disease in rooms and areas where people are present

TOTAL BACTERIAL COUNT (TBC) AND TOTAL FUNGAL COUNT (TFC)

Cumulative Time (mins)	TBC (CFU/m ³)	TFC (CFU/m ³)	SIAQG (CFU/m ³)
0	280	60	TBC: 500 TFC: 500
15	900	1190	
30	370	630	
45	310	320	
60	230	220	

Bacteria and fungal are added to the room after 15 minutes, and for the next 45 minutes the MAC500s reduces count of both dramatically.



Test results provided by Analytical Laboratories, Singapore

JIMCO MAC500S AIR CLEANER TESTIMONIAL

Hi, my name is Helen Shepherd and I live in Lincolnshire, UK. This is the story of my son Jake.

My son, Jake, is a normal 10-year-old boy and loves football. But Jake has found exercise hard work as he suffers from chronic asthma. He was diagnosed with asthma at the age of 2 and, up until recently, he has always been on steroid tablets twice a day - first thing in the morning and last thing at night and was using a steroid inhaler and his Ventolin inhaler every 4 hours.



Jake has always struggled to sleep at night, and we have never been able to find a way to help him to stop coughing and breathe more easily - to get the rest he needs. However, things changed for Jake when we were introduced to AirOzone Technologies Ltd sole distributor of the MAC500s air cleaner in the UK. After listening & understanding Jake's problems Jake started to use the MAC500s as instructed by ATL. I started by keeping Jake on all his medication and having the MAC500s running all the time in his room throughout the day and night.

We soon noticed Jake had started to improve and was not having to use his Ventolin as much throughout the day or night. After a week using

the MAC500s we stopped giving him his steroid tablets in the morning and dropped the MAC500s usage down to being on just in the afternoon and at night only. To my amazement Jake was still stable. After another couple of weeks, he maintained his stability so I decided to stop giving him his steroid tablets at night as well. He remained stable! By this time Jake had also stopped using his Ventolin inhaler as he felt so much better and could breathe a lot easier - even on the football pitch. Jake has now stopped using any of his medication for his asthma and has remained stable. Whilst we always keep his health under review, the only thing we use is the MAC500s - at night only.

The MAC500s has given Jake a fresh start. Before we started using the air cleaning unit, Jake had never been stable for long periods and had never slept through the night without waking up and coughing. Jake now feels a lot happier and healthier in himself since using the MAC500s, and he's able to give 100 % to his team mates on the pitch. Since using the air purifying unit Jake's peak flow has gone from 200 to 350.

I would highly recommend the MAC500s to others!

Helen Shepherd



CLEAN AIR



ENVIRONMENTALLY FRIENDLY
AIR PURIFICATION



NO USE OF CHEMICALS



REDUCES FUNGAL SPORES

COLD STORAGE



AVOID FOOD LOSS

WITH ENVIRONMENTALLY FRIENDLY
UV-C TECHNOLOGY



REFERENCE FROM CONTAINER SHIP CAROLINE MÆRSK

Caroline Mærsk has had MAC500s UV-C installed for the past 3 years in the cooling room, where milk, fruit, vegetables and other temperature sensitive products are stored.

Our experience aboard with the MAC500s air cleanser is as follows:

We experience a significantly longer durability of fruit and vegetables, thus reduced waste goods.

The smell is always comfortable in the cooling room.

Poul Engers Pedersen
Captain

Permanently solve any kind of odor problem without the use of chemicals.

The odor will not return, unless the source of the odor is still present.

Reduces the amount of bacteria, viruses, mould and fungi and does not produce any NOx.

Eliminates the sources of headaches, respiratory problems, fatigue, COPD and asthma.

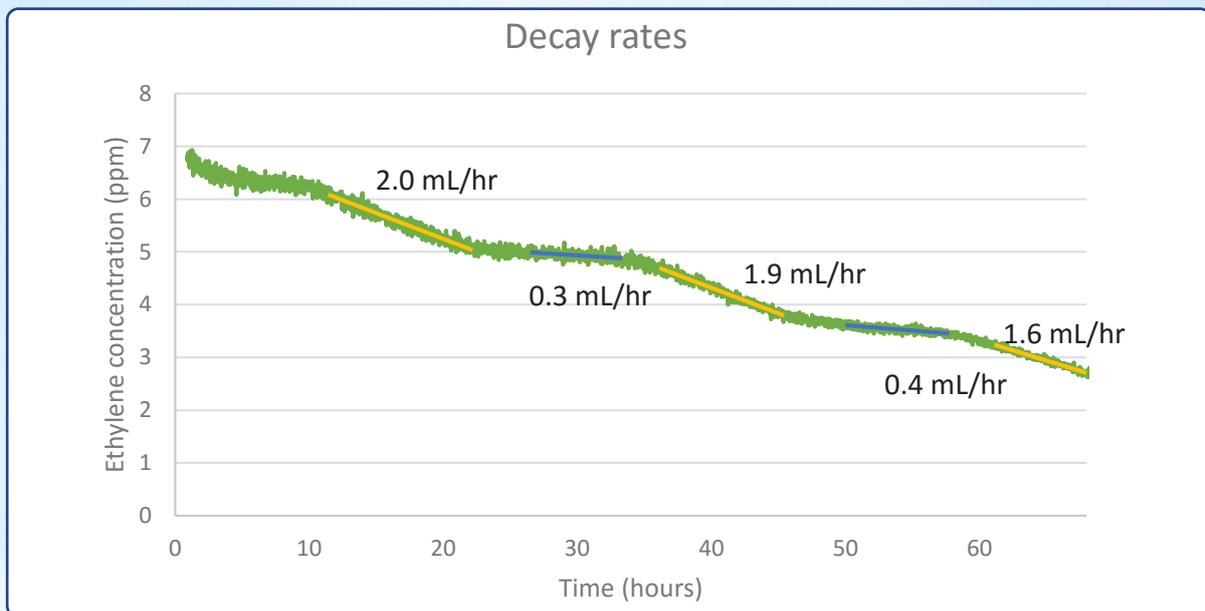
More information on jimco.dk

AVOID FOOD LOSS

DURING TRANSPORTATION AND WHILE STORING FOOD

JIMCO has conducted a test with a recognized, certified, third-party institute in Denmark. We have tested the reduction of ethylene gasses when using the JIMCO air purifier MAC500s.

The test concludes that our technology will reduce ethylene gasses substantially. This can be used to extend the life of fruit and vegetables. Ethylene is produced from essentially all parts of higher plants, including leaves, stems, roots, flowers, fruits, tubers, and seeds. Ethylene speeds up the ripening process and in the end it will make fruit and vegetable rot faster.



Decay rates in milliliter per hour determined for when the air cleaner is on (yellow) or off (blue). The decay rate in percentage is between 1.5% - 2.0%.

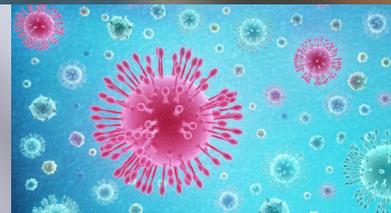
TREATMENT WITH & WITHOUT UV-C PRODUCED OZONE



JIMCO®

UV-C & OZONE
Technology

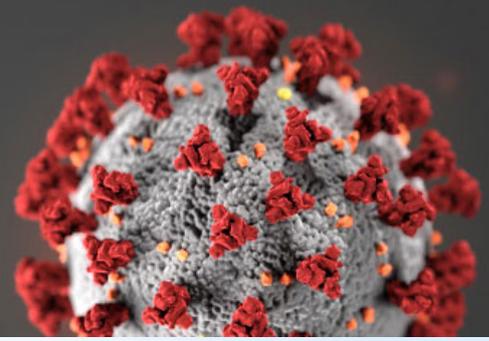
EFFECTIVE
AIRBORNE
VIRUS
REDUCTION
24/7



STOP CORONAVIRUS FROM SPREADING MAC500S

DOCUMENTED SIGNIFICANT REDUCTION OF
AIRBORNE VIRUS

MAC500s REDUCES VIRUS IN THE AIR SIGNIFICANTLY



Authorities shut down factories to avoid that people gather in big crowds and people are afraid of traveling with airplanes and cruise liners. The Coronavirus is paralyzing many businesses and especially the travel industry.

JIMCO A/S is specialized in some of the worlds most unique and environmentally friendly air purification technologies and has a broad portfolio to combat the spreading of the coronavirus or any virus for that matter.

The JIMCO technology is 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 letting out a small amount of ozone, which can destroy bacteria and viruses.

The amount of ozone 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.

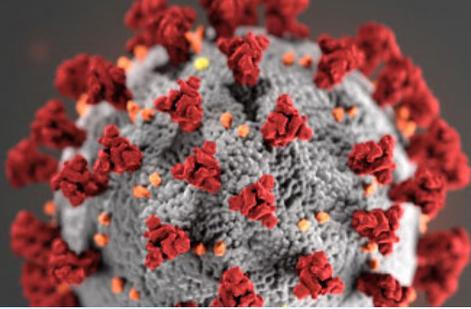
Several studies have shown that SARS-CoV2 (the virus that causes the disease COVID-19) can infect us through the air and Governments are starting to wake up and realize that the battleground has changed.

**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 power socket to operate
- ✓ Significantly improves indoor air quality



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.

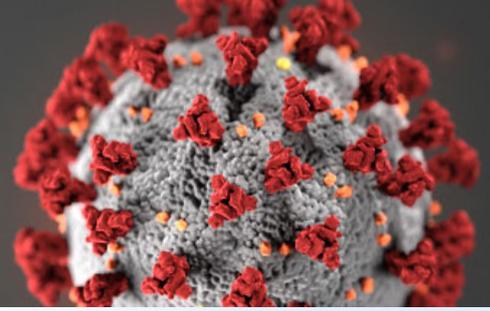
MAC500s

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

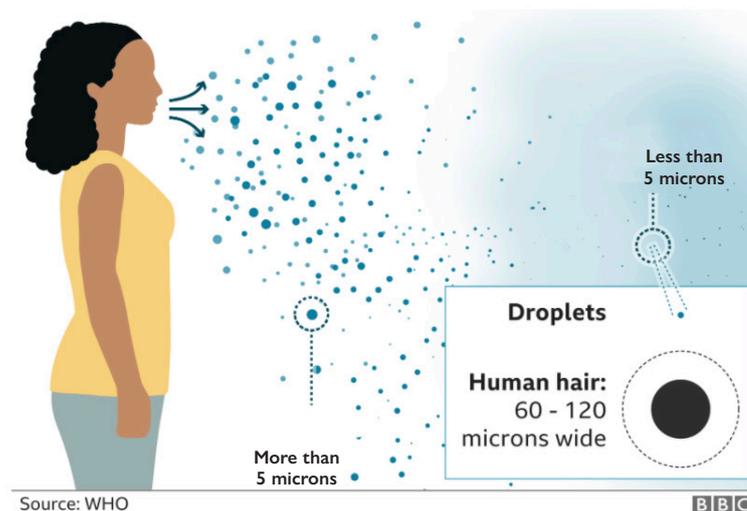
THE DIFFERENCE BETWEEN DROPLET AND AIRBORNE TRANSMISSION

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 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



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2 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

According to Kowalski* and Walker† 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

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

Best regards,

Casper Laur Byg, PhD specialist
Bioengineering and Environmental Technology
Danish Technological Institute

THE COVID-19 BATTLEGROUND HAS CHANGED

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



DID YOU
KNOW THAT
YOU BREATHE
22,000
TIMES PER
DAY?

UV-C AND OZONE SOLUTIONS FOR THE FUTURE
EUROPE · SOUTH AMERICA · NORTH AMERICA · AFRICA · ASIA · MIDDLE EAST

CLEAN ENVIRONMENT USING THE FORCES OF NATURE



CLEAN AIR



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

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.

The MAC500s has been documented to reduce airborne virus. But the MAC500s should not be the only measure in the fight against the pandemic. It is important to still follow all guidelines from authorities.

For information please contact.
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