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SMALL AIR PURIFIERS

KEEP AIR AND SURFACES CLEAN





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 worldwide. 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.





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.



- 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

MAC500

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- 24/7 use
- Filterless

MAC500s

DYNAMIC AIR PURIFICATION



JIMCO.DK

ENVIRONMENTALLY FRIENDLY Dynamic Air Purification

MAC500s ACTIVE Decontamination Process

Product Benefits:

NO frequent filter change

Light weight

Very low energy consumption









*Reduction rate depends on room size

Meets California ozone emissions limit: CARB certified



UL CERTIFICATION

MAC500s is now UL certified

The MAC500s UL model has steel lattices attached to make sure you get a safe air purification in your home or office. It can also be mounted on the wall. The UL model offers the same air purification treatment as the original model.



Note: The steel lattices are black no matter what color you choose.

MAC500s DYNAMIC Air Purification

STOP CORONAVIRUS From Spreading

GIRCL

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DOCUMENT

& FFEC

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 ft/34 m3*

*Reduction rate depends on room size

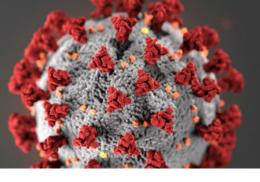


ACTIVELY REDUCE VIRUS IN THE AIR YOU BREATHE

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

MAC500S REDUCES AIRBORNE VIRUSES EFFECTIVELY



In May 2021, the Centers for Disease Control officially recognized that SARS-CoV-2—the virus that causes COVID-19—is airborne, meaning it is highly transmissible through the air. It took more than a year into the pandemic and even now very little is being done to mitigate airborne transmission risk. Fighting airborne virus is the key to stop the virus from spreading.

ASHRAE: "Airborne transmission of SARS-CoV-2 is significant and should be controlled."*

CDC: "The principal mode by which people are infected with SARS-CoV-2 is through exposure to respiratory droplets carrying infectious virus."**

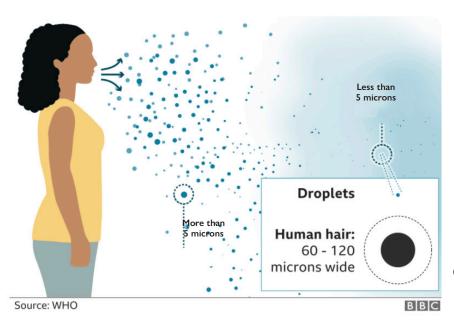
THE DIFFERENCE BETWEEN DROPLET AND AIRBORNE TRANSMISSION

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.



Aerosols created by a sneezing, coughing, singing, talking etc. can contain virus and can linger in the air for several hours.

The aerosols emitted from the human body are hotter than ambient air which makes them rise in normal room temperature.

- Aerosol can travel far longer than 2 meters (6 feet).
- Aerosols can contain virus.
- Aerosols are invisible to the human eye.
- Aerosols transmitted from a human tend to rise in the room as these aerosols are warmer than ambient air.
- Cough: Travels up to 5,8 m (19 feet) 3,000 droplets

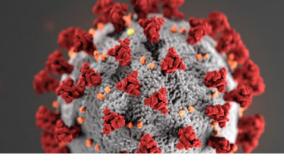
Sneeze: Travels up to 7,9 m (26 feet) 40,000 droplets

⁶⁶ Viruses in aerosols (smaller than 100 μm) can remain suspended in the air for many seconds or 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. **

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.





DOCUMENTED EFFECT

A study from a technological institute in Denmark states that the Danish-developed air purifier MAC500s effectively reduces viruses in the air. In rooms where the air purifier is in use, a more resistant virus, than corona virus, is reduced by 89 % already during 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 has been 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 is more difficult or just as difficult to break down 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 MS2 virus. The reduction will then very quickly reach 100 % as shown in table 3 and figure 4. on page 9 in the full report.

				DANISH TECHNOLOGICA INSTITUTE
Jimco A/S Mjalbyvėj 7 DK-5900 Rudkøbing				Teknologiparken Kongsvang Allé 29 8000 Aarhus C Denmark Phone +45 72 20 20 1 Info@dtl.dk www.dtl.dk
		2	October 2020	
Declaration of test and	assessment			
Declaration of tess any Dansh Technological Institu- Institution virus of the Jin The test was conducted wi (5997-61) on host Escher rate of inactivation of the between the natural inact the use of the Jinneo MAC determined by samplingen Product test clearly show active INS2 caused by the Based on the measured Window Control Control South Control Control Product attribution Reduction, %	th the unit installer r was tested using <i>ichia coli</i> (ATCC 15 aerosolized MS2 w yration rate and th 500 air purifier. Th of the air in the chi- difference betwee s a reduction of the e air purifier.	d in a 20 m ³ sealed MS2 bacteriophage 597) as a virus surt as determined as th e inactivation rate inder over a 2-hou n the Natural decay e concentration of a	room. The s (ATCC ogate. The le difference neasured during as were r period. The test and the irborne and	

* Christopher M. Walker & Gwangpyo Ko University of Texas Health Science Center at Houston, Houston, TX, and Department of Environmental Health, Institute of Health and Environment, Seoul National University, Seoul, Korea. Environ. Sci. Technol. 2007, 41, 5460-5465

DOCUMENTED EFFECT ON Reduction of Virus in The Air



DANISH TECHNOLOGICAL INSTITUTE

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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 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

Best regards, Bioengineering and Environmental Technology Life Science, Darish Technological Institute Casper Laur Byg, PhDKspesialists Allé 29 Bioengineering and BOO Authurfal Dechterby Danish Technological Institute

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 NOx.

MAC500s

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



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

Cumulative Time (mins)	TBC (CFU/m³)	TFC (CFU/m³)	SIAQG (CFU/m³)
0	280	60	
15	900	1190	TDC: 500
30	370	630	TBC: 500 TFC: 500
45	310	320	11 0. 500
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.



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 distributer 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 Jakes peak flow has gone from 200 to 350.

I would highly recommend the MAC500s to others!

Helen Shepherd









NO USE OF CHEMICALS



COLD STORAGE



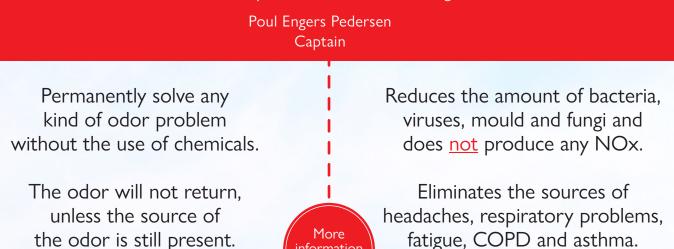
AVOID FOOD LOSS

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.

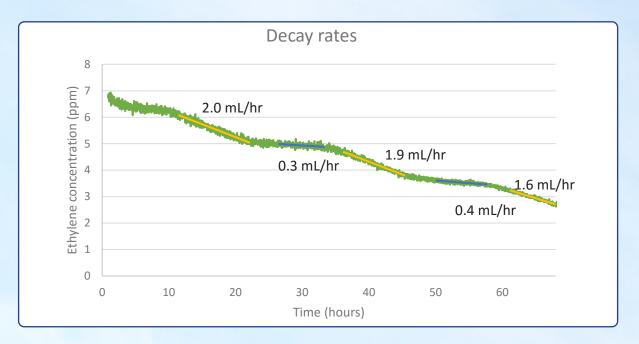


information on jimco.dk

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 %.

WITHOUT OZONE

TREATMENT WITH & WITHOUT UV-C PRODUCED OZONE

WITH OZONE



- (Joseph)

Grapes





Oranges

WITH OZONE





Strawberries





Tomatoes



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OZ 1000 MADE IN DENMARK

THE OZ SERIES OZ1000 OZ1000T OZ2000

JIMCO.DK

ELIMINATE VIRUSES, Bacteria Mould, Fungi and yeast

OZ1000 & OZ2000

AN EFFECTIVE SOLUTION IN THE FOLLOWING AREAS:

- Residential homes Smoky rooms, bathrooms, kitchen areas, residential rooms.
- ✓ Car Dealers Treatment of smelling cars.
- Hotels Treatment of hotel rooms, disinfection of kitchens, treatment of smokey bars, treatment of waste sites etc.
- Painters and Decorators
 Treatment of painting fumes.
- Restaurants and Discos Odor treatment of carpets and furniture after cleaning.
- Apartment Buildings Odor treatment before new tenants move in, removal of odors in connection with waste sites/chutes.
- Police Stations Odor treatment of detention cells and police cars.

- Village Halls Odor treatment in connection with social and official gatherings.
- Crematoriums Odor treatment of various rooms.
- Trucks Odor treatment of cargo holds.
 OZ1000 and OZ2000 are also available for 24 volt.
- Waste Water Treatment Plants Roasting rooms, sludge treatment rooms, pump stations in the open.
- Damage Control Companies Odor treatment after fire, flooded cellars due to sewers running back to drains, odor treatment after vermin.
 Damage due to dry frying in the kitchen.



OZ1000 / OZ2000

TECNICAL DATA: OZ1000 (T) / OZ2000

UV-lamps: Operating hours (lamps): Voltage: Power consumption: Recommended room area for odor abatement: Finish: 1x16 W / 2x16 W 8000 / 8000 230 V or 120 V / 230 V or 120 V 30 W / 60 W

125 m3 / 250 m3 Stainless steel and coated



OZ1000T With timer

Length: 430 mm

Width: 130 mm

Height: 130 mm

REMOVE UNPLESANT ODORS

JIMCO A/S specializes in the removal of nuisance odors using patented UV-C & OZONE technology. Using this technology, any number of nuisance odors are eliminated and the risk of transferring infectiously diseases is reduced.

OZ1000 and OZ2000 not only removes the odor from the air, but also the odor that may remain in carpets, curtains, walls etc. Poor indoor climate affects people's quality of life and health negatively. It may be malodor from garbage, mould fungis, cigarettes, industrial processes etc.

Bad smell may itself cause discomfort, but indoor air pollution is also the source of headaches, respiratory problems, fatigue, muscle tension, asthma, allergy, dry mucous membrane and eye irritation.

All these problems affect peoples' working ablility and concentration.

ADVANTAGES

- ✓ Clean physical process without chemicals
- Minimal power consumption
- ✓ Advantageous compared to filter techniques
- ✓ No negative environmental impact
- ✓ Does not produce any NOx
- ✓ High operational security
- ✓ Requires minimum maintenance
- ✓ Easy to install
- ✓ Small investment
- ✓ Easy to move



ODORS CAN BE HARD TO ELIMINATE

Even in a well-ventilated room it may be difficult to remove nuisance odors.

With OZ1000 & OZ2000, you can permanently solve any kind of odor problems without using chemicals. Unless the source of the odor is still present, the odor will not return.

EASY TO INSTALL

OZ1000 & OZ2000 should be installed high in the room – on a bookshelf, wall or ceiling.

A GOOD INVESTMENT

It is an investment in better personal well-being, better efficiency, increased job satisfaction and less absence due to illness.

WARNING!!!

People or animals must not be present in the room or area being treated with OZ1000 & OZ2000.





STOP CORONAVIRUS From Spreading

REDUCE VIRUS ON SURFACES AND IN THE AIR











REDUCES FUNGAL SPORES



REDUCE VIRUS WITH 99.84 %

Designed to effectively decrease the spreading of any disease in rooms and areas without the presence of people.

WARNING!!!

People or animals must not be present in the room or area being treated with OZ1000 or OZ2000.

OZ2000 TEST RESULT AUGUST 2020

Reduction of 99.84 % of Vaccinia virus

(the most resistant enveloped virus. All corona viruses are enveloped viruses).

This means that reduction of SARS-CoV2 will be the same at the very least.

decontamination time	disinfectant	Concentration	carrier	log₁₀ TCID₅₀/ml	average log (geometric)	RF
240 min ozone			carrier - 1	2.75		
	max 1.68 ppm	carrier - 2	2.75	2.79	2.63	
		carrier - 3	2.88			

Test setup was 4 hours treatment in 31 m3 room. OZ2000 reached 1,68 ppm. The room was NOT disinfected before start, the window was open 2 hours before test start which would have increased the amount of airborne microorganisms before test start. This test is very close to what happens in reality.

REMARKABLE SANITIZATION RATES ON SURFACES

Vaccinia Virus (MVA)

99.84 % Staphylococcus aureus 97.812 % **Enterococcus hirae** 83,782 % Escherichia coli 95.926 % Acinetobacter baumanii (bactericidal) 99,224 % Candida albicans (yeasticidal) 98,878 % Aspergillus brasliensis (mold) 20,567 % Salmonella typhimurium 96.48 % Listeria Monocytogenes 99.61 % Mycobacterium terrae 99.993 % Mycobacterium avium **99.997** %



In Europe, Modified Vaccinia Virus Ankara (MVA) represents the official model virus for all enveloped viruses, Therefore the conclusion can be drawn that after passing examinations an activity against all enveloped viruses including members of the virus family coronaviridae (like MERS-CoV, SARS-CoV1 and SARS-CoV2) is achieved.

QUOTES AND RECOMMENDATIONS

Constantly clean and fresh air

"As a safety training company finding a product that would protect our clients during training was of paramount importance. We wanted to provide peace of mind and comfort to our training team and clients, so after researching various options available to us we chose the JIMCO MAC500 and OZ2000.

These units ensure we provide constant air and surface cleaning during training modules and deep disinfection overnight for an ultra-clean work environment. The fact they are also environmentally friendly and reduce the amount of chemicals we use for cleaning is also a big advantage. I would highly recommend the JIMCO range of portable air purifiers to anyone for air and surface disinfection."

- Tom from Safety Training, Ireland



No need for asthma medicine anymore

"It is with great pleasure that we can tell you what positive effects the MAC500 has had on Inge's asthma. We have had the machine for almost four years and during that time Inge has managed to get rid of asthma medicine.

The Department of Pulmonary Medicine at Vejle Hospital was amazed at the healing effect the MAC500 has had on Inge. I do not have lung diseases; but it has amazed me what air change there is in the living room after a night of air purification. The machine runs 24/7. We give the warmest recommendations for this product."

- Søren from Middelfart, Denmark





UV-C AND OZONE SOLUTIONS FOR THE FUTURE Europe · South America · North America · Africa · Asia · Middle East

TECHNICAL DATA

MAC500S

UV lamp: 1x8 w Voltage: 230 V Weight: 1,98 kg / 4,36 lbs. Power consumption:25 wOperating lamp:8000 hoursRoom 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.

OZ1000 (T) / OZ2000

UV-lamps: 1×16 W / 2×16 W Voltage: 230 V or 120 V / 230 V or 120 V Finish: Stainless steel and coated

Length: 430 mm

Power consumption: 30 W / 60 W Operating lamp: 8000 / 8000 hours Recommended room area for odor abatement: 125 m3 / 250 m3

Height: 130 mm

Width: 130 mm

For information please contact. Michael Kløcker Business Unit Manager E: mk@jimco.dk T: +45 2149 3348



Find JIMCO partner here