midas electronics

MidasAnAir®

air disinfection units

with concentrated flux of non-ionizing uv radiation

AIR DISINFECTION EFFICIENCY UP TO 99%

MidasAnAir® 12015

horizontal & vertical installation

MidasAnAir® 3040T

horizontal & vertical installation

How it works

The air loaded with microorganisms is driven inside the device by the air circulation system. Inside the device there are located UV-C generators whose radiation is concentrated through an ellipsoidal mirror system that forms a resonance cavity which leads to the maximum efficiency of the device.

The air circulation time is carefully chosen, accounting the level of energy necessary for destroying every type of microorganism and the energy that is created by the generators. It is important to know that the use of this patented principle led to increased device efficiency.

The system was conceived and built to be completely harmless for humans and to have maximum efficiency.

The air from the enclosure is disinfected
up to 99%

Key benefits

- stops the spread of diseases and sicknesses;
- helps preserve the archived objects and documents;
- the resonant cavity generates a high level of energy per sq. cm., thus the level of microorganisms in the air is drastically reduced (93-99%);
- no toxic debris;
- totally eliminates the need for usage of chemical products, thus protecting the users and the environment;
- significant energy saving;
- ozone free.

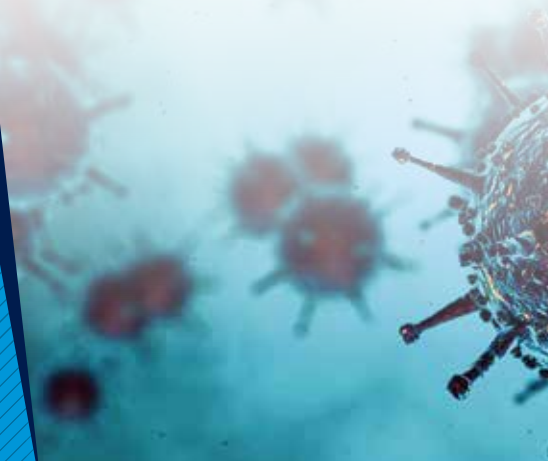
Features

- electronic timer for storing total functioning time of the ultraviolet generators;
- the system is based on a microprocessor that has permanent auto testing and monitoring functions of the device for detecting potential failures that may occur (UVC generator failure; air circulation system failure; exceeding functioning time of the UV-C generators), allowing the system to identify a potential partial or total inability of the device to disinfect the air;
- remote control for turning the device on/off and for setting the operating time, this should depend on the room's volume for an efficient disinfection and for a maximum life time of the generators.

Microorganisms successfully destroyed by MidasAnAir units

bacteria

Bacillus anthracis *(Anthrax)*
Bacillus anthracis spores *(Anthrax spores)*
Bacillus magaterium sp. (spores)
Bacillus magaterium sp. (veg.)
Bacillus paratyphusus
Bacillus subtilis spores
Bacillus subtilis
Clostridium tetani
Corynebacterium diphtheriae
Ebertelia typhosa
Escherichia coli
Leptospiracanicola *(infectious Jaundice)*
Micrococcus candidus
Micrococcus sphaeroides
Mycobacterium tuberculosis
Neisseria catarrhalis
Phytomonas tumefaciens
Proteus vulgaris
Pseudomonas aeruginosa
Pseudomonas fluorescens
Salmonella enteritidis
Salmonela paratyphi *(Enteric fever)*
Salmonella typhosa *(Typhoid fever)*
Salmonella typhimurium
Sarcina lutea
Serratia marcescens
Shigella dyseteriae *(Dysentery)*
Shigella flexneri *(Dysentery)*
Shigella paradysenteriae
Spirillum rubrum
Staphylococcus albus
Staphylococcus aureus
Staphylococcus hemolyticus
Staphylococcus lactis
Streptococcus viridans
Vibrio comma *(Cholera)*



Microorganisms successfully destroyed by MidasAnAir units

molds

Aspergillius flavus
Aspergillius glaucus
Aspergillius niger
Mucor racemosus A
Mucor racemosus B
Oospora lactis
Penicillium expansum
Penicillium roqueforti
Penicillium digitatum
Rhisopus nigricans

protozoa

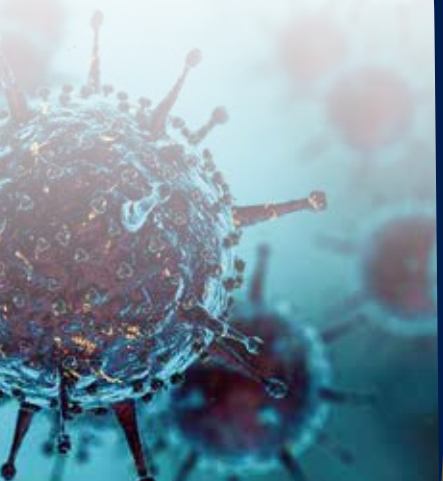
Chlorella Vulgaris
Nematode Eggs
Paramecium

viruses

Infectious Hepatitis
Influenza
Poliovirus *(Poliomyelitis)*
Tobacco mosaic
SARS-CoV-2
H5N1
H1N1

yeasts

Brewers yeast
Common yeast cake
Saccharomyces carevisiae
Saccharomyces ellipsoideus
Saccharomyces spores

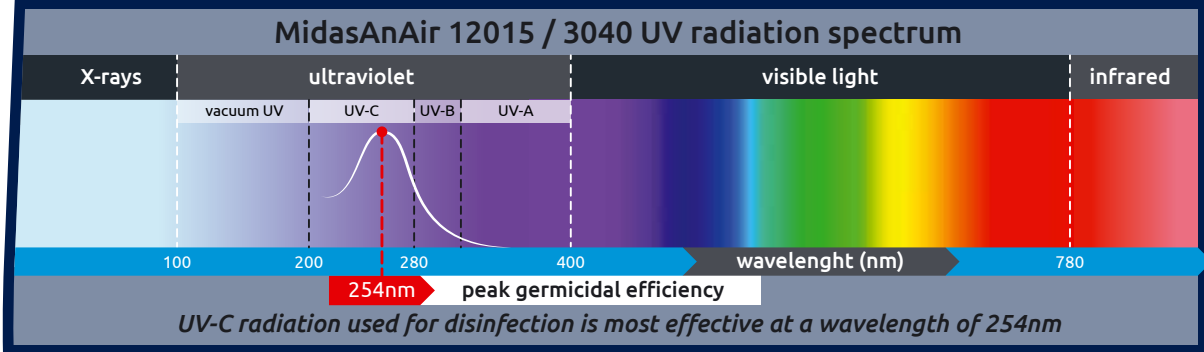


Ultraviolet radiation facts

The ultraviolet radiation has a wavelength covering a spectrum between 100 and 400 Nanometers and can be found in the solar light. This type of radiation can be classified in three categories, based on its wavelength:

- UV-A radiation, ranging from 315 to 400nm wavelength;
- UV-B radiation, ranging from 280 to 315nm wavelength;
- UV-C radiation, ranging from 100 to 260nm wavelength.

Ultraviolet radiation has been used as a means of destroying airborne bacteria and disease when subjected to proper levels. The highest germicidal effect can be achieved at 254nm, when the radiation is best absorbed by the nucleus acids of microorganisms.



Applications

MidasAnAir systems can be used as air purifier wherever there is a high risk of spreading viruses, airborne bacteria and diseases:

- hospitals, medical cabinets and sanitary units: operating rooms, isolation rooms, intensive care units, examination rooms, emergency rooms, bronchoscope / sputum rooms and waiting areas;
- pharmaceutical industry;
- schools and nurseries;
- public food units and food packaging facilities;
- general office space and receptions, public and private institutions;
- document archives, valuables and patrimony storage units;
- museums and rare / antique item preserving units;
- cosmetic and beauty saloons.

TECHNICAL DETAILS	3040	3040T	12015
UV lamp power	2 x 15W	2x 25W	6 x 55W
UV lamp made by	Philips / Osram	Philips / Osram	Philips / Osram
nominal frequency	50/60HZ	50/60HZ	50/60HZ
UV generators lifespan	9.000h	9.000h	9.000h
wavelength	254nm	254nm	254nm
airflow	45mc/h	90mc/h	up to 600mc/h
supply voltage	110/230V AC	110/230V AC	110/230V AC
grid connection	grounded socket	grounded socket	grounded socket
absorbed power	45W	65W	380W
operation mode	remote control	remote control	remote control
full electric control / hourly counter	yes / yes	yes / yes	yes / yes
presence allowed during operation	**yes**	**yes**	**yes**
running time	24/7	24/7	24/7
installation (horizontal / vertical)	on wall (H)	on wall (H+V)	on wall (H+V)
wall mounting brackets	-	yes	yes
mobile rack installation	-	yes	yes
dimensions (mm)	715x235x120	710x240x125	1.400x400x300
weight	5,3kg	5,7kg	12kg
noise level	19dB	<30dB	<40dB
warranty period	24 months	24 months	24 months

CE OZONE FREE NON TOXIC UVC

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