



LABROMED LABORATOR

DISPOZITIV MEDICAL PENTRU DEZINFECTAREA AERULUI SDMA UVAC – 250 NON-OZON

Dispozitivele SDMA sunt dispozitive medicale de tip închis pentru dezinfectarea aerului, destinate pentru:

- ✓ *Prevenirea răspândirii bolilor infecțioase transmisibile pe cale aerosolă în spații închise*
- ✓ *Dezinfectarea aerului cu încărcătură microbiană înaltă și reducerea riscului de contaminare a personalului medical*
- ✓ *Dezinfectarea aerului în spațiile publice și sociale*



Dezinfectarea aerului în unitățile curativ-profilactice, sanitaro-profilactice etc.

ADVANTAGES

- ✓ High efficiency in air disinfection
- ✓ Ecological - no ozone emission
- ✓ A safe use of UV-C light inside the installation
- ✓ The operation of the installation in continuous mode with the possibility of use in the presence of people ensures the performance of work activities without interruptions
- ✓ Easy installation and maintenance

MODE OF EXPLOITATION

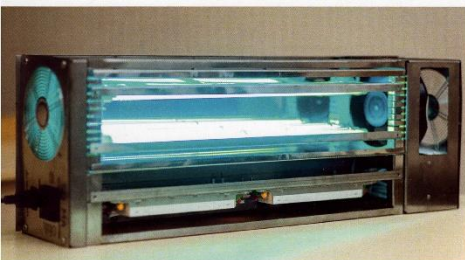
- ✓ in non-stop operation mode 24/7/375
- ✓ SDMA devices can be installed horizontally or vertically at a height of 1.5 from the floor level.
- ✓ It is recommended to install SDMA devices at a distance of about 0.4 m from the heat source.
- ✓ SDMA devices connects to electrical networks in accordance with European Standards in the field of electrical safety: EN 60335-1:2012/A1S:2021, EN 60601-1:2006/A1:2016/AC:2019, EN 61010-1:2010/A1:2019, DIRECTIVE 2014/35/EU

TECHNICAL PARAMETERS OF THE SYSTEM

SDMA UVAC-250

a medical device registered in the State Register of Medical Devices of the Republic of Moldova: DM000367363 on 18.08.2022.

Characteristics	Allowed Values
Nominal voltage, (AC) V	230
Current frequency, Hz	50-60
Rated current, A, max.	2,5-5
Noise level dB, max.	56
Weight kg, max.	24
Overall dimensions mm, max.	815x280x195
Volume of disinfected air, m ³ /h	250



- The UV-C radiation with a frequency of 253.7 nm breaks down the sequence of DNA and RNA, leading to the destruction of the replication system of pathogens. Once the DNA and RNA sequence is no longer correct, they can no longer reproduce.
- The UV-C light annihilates viruses and bacteria by destroying their ability to reproduce.
- The destruction of the reproduction apparatus of the dispersed pathogenic suppliers in the aerosol phase takes place by physical methods, during the displacement of the airflow with a fan through the channel of the air stream processing module with polished walls up to the mirror phase, amplifying the destruction of DNA and RNA structures.

Medical Devices of the Republic of Moldova:
DM000367363 on 18.08.2022.

Ultraviolet Air Cleaner

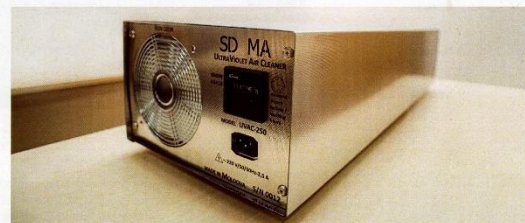
AIR DISINFECTION SYSTEM SDMA UVAC
with Germicidal UV-C Lighting, by physical methods,
NON-OZONE, in non-stop operation mode 24/7/375



- **DIPLOMA OF EXCELLENCE**
AWARDED TO THE INSTITUTE OF APPLIED PHYSICS, AND „LABROMED LABORATOR” SRL FROM THE NATIONAL INSTITUTE FOR RESEARCH AND DEVELOPMENT IN ELECTRICAL ENGIN, INSTITUTE OF ENGINEERING ICPE-CA BUCHAREST, ROMANIA INTERNATIONAL EXHIBITION OF INVENTICS INVENTICA 2022, IASI, ROMANIA
- **DIPLOMA OF TECHNOLOGICAL TRANSFER AWARD**
AWARDED TO “LABROMED LABORATOR” SRL – MOLDOVA, IN RECOGNITION OF HIGH SCIENTIFIC CONTRIBUTION AND LOYALTY TO THE XXVI INTERNATIONAL EXHIBITION OF INVENTICS INVENTICA 2022, IASI, ROMANIA

Patent for invention
MD 1650 Y 20221130

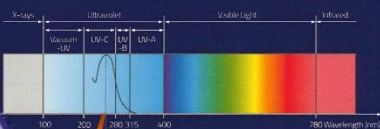
Awarded with the Gold Medal
at the International Exhibition-2022,
INTERNATIONAL EXHIBITION OF INVENTICS
INVENTICA 2022, IASI, ROMANIA



AIR DISINFECTION SYSTEM SDMA UVAC (hereinafter, SDMA devices)
are medical devices designed for:

- Prevention of aerosol spread of contagious diseases in closed spaces
- Air disinfection in the rooms of medical units with a high microbial load to reduce the risk of contamination of the medical staff
- Air disinfection in closed spaces of public institutions of all levels, including schools, kindergartens, medical facilities, nursing homes, industrial plants, the food industry, and also in locker rooms, shops, warehouses, waiting rooms, crowded places, etc.

The Spectrum of Light



- UV-C Lamps – 9000 Life Hours
- Electronic ballast - 50000 Life Hours
- Fan - 110000 Life Hours
- Electrical module – 20000 Starts/Stops
- Stainless steel case – 50 Year Warranty

MANUFACTURER

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AIR DISINFECTION SYSTEM SDMA

The SDMA devices are medical closed-type air disinfection devices designed for:

- ◆ Prevention of aerosol spread of contagious diseases in closed spaces
- ◆ Air disinfection in the rooms of medical units with a high microbial load to reduce the risk of contamination of the medical staff
- ◆ Air disinfection in closed spaces of public institutions of all levels, including schools, kindergartens, medical facilities, nursing homes, industrial plants, the food industry, and also in locker rooms, shops, warehouses, waiting rooms, crowded places, etc.

ADVANTAGES

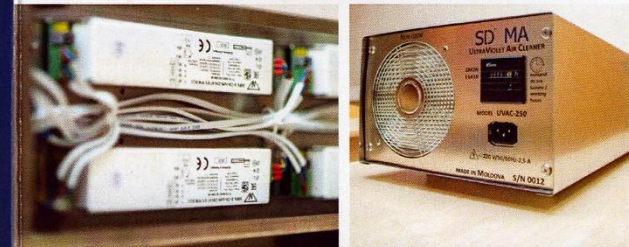
- ✓ High efficiency in air disinfection
- ✓ Ecological - no ozone emission
- ✓ A safe use of UVC light inside the installation
- ✓ The operation of the installation in continuous mode with the possibility of use in the presence of people ensures the performance of work activities without interruptions
- ✓ Easy installation and maintenance

TECHNICAL PARAMETERS OF THE SYSTEM SDMA UVAC-250

a medical device registered in the State Register of Medical Devices of the Republic of Moldova: Dm000367363 on 18.08.2022.

Characteristics	Allowed Values
Nominal voltage, (AC) V	230
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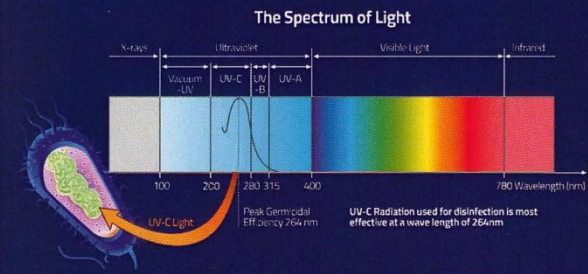
- ✓ The UV-C radiation with a frequency of 253.7 nm breaks down the sequence of DNA and RNA, leading to the destruction of the replication system of pathogens.
- ✓ Once the DNA and RNA sequence is no longer correct, they can no longer reproduce.
- ✓ The destruction of the reproduction apparatus of the dispersed pathogenic suppliers in the aerosol phase takes place by physical methods, during the displacement of the air stream with a fan through the channel of the air processing module with polished walls up to the mirror phase, amplifying the destruction of DNA and RNA structures.



MODE OF EXPLOITATION

- in non-stop operation mode 24/7/375
- The SDMA is installed in a horizontal or vertical position at a height of 1,5m from the floor level.
- The SDMA is recommended to be installed at a distance of about 0.4 m from the radiators.
- SDMA devices connects to electrical networks in accordance with European Standards in the field of electrical safety: EN 60335-1:2012/A15:2021, EN 60601-1:2006/A1:2016/AC:2019, EN 61010-1:2010/A1:2019, DIRECTIVE 2014/35/EU

- UV-C Lamps** – 9000 Life Hours
- Electronic ballast** - 50000 Life Hours
- Fan** -110000 Life Hours
- Electrical module** – 20000 Starts/Stops
- Stainless steel case** – 50 Year Warranty



UVAC 6,5 m³/h

A compact and innovative solution for air disinfection of airborne microbes such as bacteria, viruses, and allergens in the interior of transport units and cars in the presence of people



- Ultraviolet Air Cleaner UVAC 6.5 is a medical device registered in the State Register of Medical Devices of the Republic of Moldova: DM000367355 on 18.08.2022.
- (Disinfection of the air stream takes place with the help of UVC light produced by UV-C LEDs.
- The air stream at the entrance to the device is filtered using a filter element.
- Installation is carried out in the rear trunk of the car or by attaching it to the headrest of the seat.
- SDMA devices connects to electrical networks in accordance with European Standards in the field of electrical safety: EN 60335-1:2012/A15:2021, EN 60601-1:2006/A1:2016/AC:2019, EN 61010-1:2010/A1:2019, DIRECTIVE 2014/35/EU
- Average duration of exploitation of no less than 7 years.

CONTACTE

ADRESA

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Medical device registered in the State Register of Medical Devices of the Republic of Moldova: on 18.08.2022.

Ultraviolet Air Cleaner

AIR DISINFECTION SYSTEM SDMA UVAC
with Germicidal UV-C Lighting NON-OZONE
by physical methods in non-stop operation mode
24/7/375

Global Medical Device Nomenclature
(GMDN) 65418 Ultraviolet

Awarded with the Gold Medal
at the International Exhibition-2022,
Iasi, Romania



- ✓ **DIPLOMA OF EXCELLENCE**
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LABROMED LABORATOR

Manufacturer:

Labromed Laborator SRL

Institute of Applied Physics, 5, Academiei Street, of. 228,
MD-2028 Chisinau, Republic of Moldova



LABROMED LABORATOR



15^{EDITION}

DIPLOMA



MA

GOLD MEDAL

AIR DEZINFECTION DEVICE

Micu Alexandru

IASI - ROMANIA



patronage of
CERCETĂRII,
DIGITALIZĂRII

2023



is awarded to:



President of International Jury
Prof. Dr. Eng. Mohd Mustafa Al Bakri ABDULLAH

President of Scientific Committee
Prof. Dr. Ion SANDU



May 13, 2023





LABROMED LABORATOR



INSTITUTUL NAȚIONAL DE CERCETARE-DEZVOLTARE
PENTRU INGINERIE ELECTRICĂ ICPE-CA București

DIPLOMĂ DE EXCELENȚĂ

se acordă **LABROMED Laborator S.R.L.**, Republica Moldova
pentru invențiile prezentate la

**A 15-a ediție a Expoziției Europene a Creativității și Inovării
EUROINVENT 2023**

11—13 mai 2023, Iași, România

Director General INCDIE ICPE-CA,

Dr. ing. Sergiu NICOLAIE

mai 2023

EUROINVENT 2023



LABROMED LABORATOR





LABROMED LABORATOR

**EXPOZIȚIA NAȚIONALĂ „FABRICAT ÎN MOLDOVA”,
EDIȚIA A XX-A, 1-5 februarie 2023, Chișinău, Republica Moldova**





LABROMED LABORATOR



REPUBLICA MOLDOVA
Agenția de Stat pentru
Proprietatea Intelectuală

BREVET
DE INVENȚIE
DE SCURTĂ DURATĂ

Nr. 1650

eliberat în temeiul Legii nr. 50/2008 privind protecția invențiilor

Titlul: **Dispozitiv pentru dezinfectarea aerului**

Titulari: "LABROMED LABORATOR" S.R.L., MD; MICU
Alexandru, MD

Data depozit: 2021.08.09

Durata brevetului : 6 ani

Descrierea invenției, revendicările și desenele constituie parte
integrantă a prezentului brevet de invenție de scurtă durată

Director general

CHIȘINĂU

