

# Tested and approved



Autonomous Units

# DMD4000 tested and approved: **Desinfection of indoor climate**

## **The technology is evidence approved from Statens seruminstituts guidelines**

DMD4000 has the approval; to be harmonised up against the EN 17272:2020 standard. By tests in conjunction with this standard it shows the desired antimicrobial effect against vegetative bacteria, fungi, moulds and spores in a 70,6 m<sup>3</sup> room with a contact time of 2 hours.

DMD4000 uses an airborne desinfection solution of hydrogenperoxide and peracetic acid (hydrogenperoxide < 8%, Peracetic acid < 0,2%) for room desinfection. DMD4000 produces a dry mist ("dry fogging") containing hydrogenperoxide and peracetic acid, that fills the air in the room. The dry mist is made up of drops (8-12µ), which cover any exposed surface.

Our solution producer handles the documentation regarding the solutions desired effect against vegetative bacteria, fungi, moulds and spores under clean conditions with the use of NF T72-281-tests of desinfectants for room desinfection.

The robot is CE, EN1525 & ANSI B56.5 CleanroomCertified (ISO Class 4) approved and follows all international infection hygienic guidelines. DMD4000 is risk assessed in cooperation with Teknologisk institut.

## **Tested against COVID19**

DMD4000 is tested against the COVID19 virus at SDU klinisk institut. The test shows that DMD4000 deactivates any active SARS-CoV-2 (COVID19 viruscells).

# Over 200+ reports document the efficiency of Autonomous Units formulations against the following microorganisms:

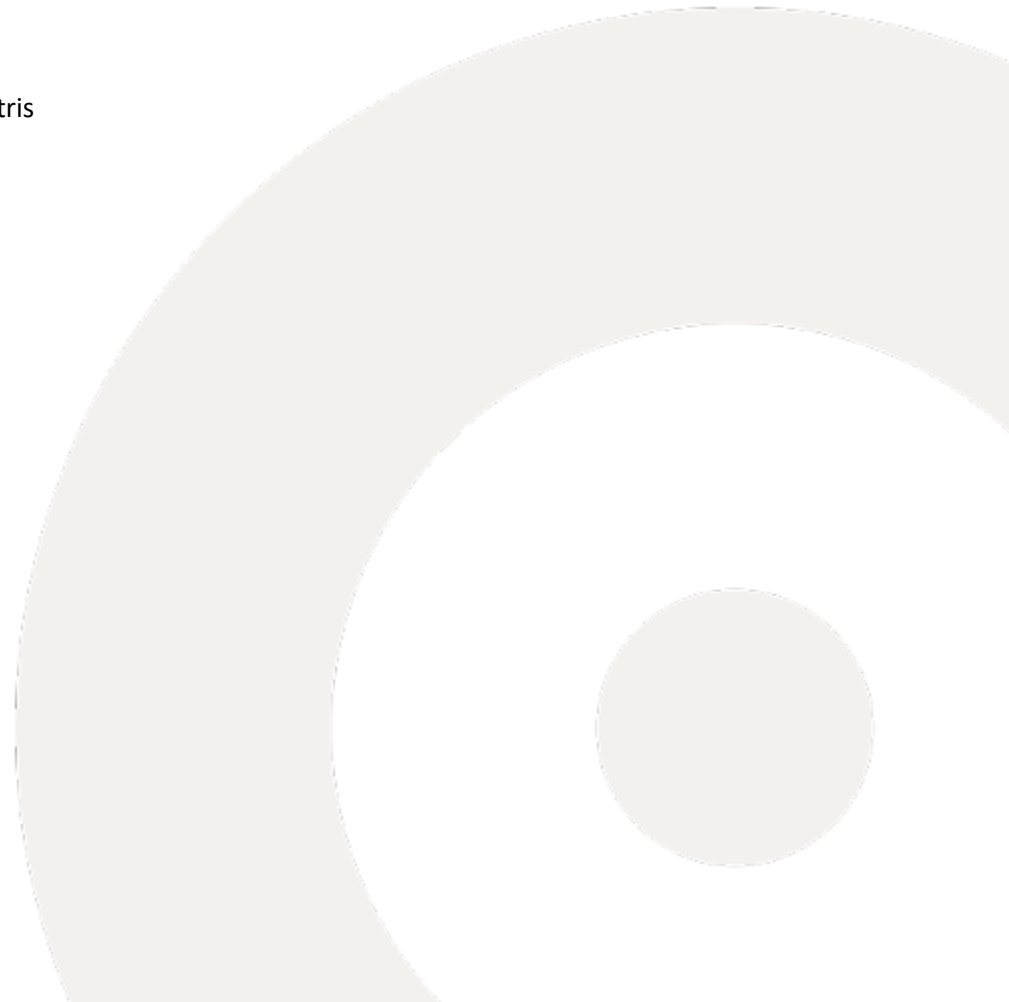
Absidiacorymbifera  
Acinetobacterlwoffii  
Aeromonassalmonicida  
Agrobacteriumradiobacter  
Alternariaalternata  
Anthrax(Bacillusanthracis)  
Aspergillusniger  
Aspergillusniger-spores  
Astenionellaformosa  
Bacilluscereus  
Bacilluslicheniformis  
Bacillusmesentericus Bacillusubtilis  
Bacillusubtilisspores  
(S.B.AspergillusfumigatusAdenovirus)  
Bacilluscirculantsvegetative and  
spores  
Bacillussp. marine  
Bacteriacinerea  
Bacteriaerwinia  
Botrytisacinerea  
Burkholderiacepacia  
Campylobacterjejuni  
Candidaalbicans CDC gr. IV c-2  
Chlamidomonassp.  
Colera(V. cholerae)  
Corona virus  
Chryseomonasluteola  
Chroomonasnorstedtii  
Ciliatag. sp.  
Citro. fre.  
Cladosporiumcladosporoides  
Clostridium difficile  
Clostridium novyi

Clostridiumperfringens  
Clostridiumsporogenes  
Coagulase+ve staphylococci  
Comomonasacidovorans  
Corynebact.  
Criptomonassp.  
Dermatophagoidespteronysinus  
ECBO virus  
Enterobacteraerogenes  
Enterococcusfaecium  
Enterococcusfaecalis  
Enterococcusshirae  
Erwiniacarotovora  
Eschericiacoli  
Flagellataapochromatica  
Flavobacter/Cytophaga  
Flavobacteriumindologenes  
Fragiliasp.  
Fusarium usariumspp alionellasp.  
G. candidum  
Hepatitis B  
Hepatitis C surrogate(BVDV)  
Herpes simplex type 1  
HIV-1  
Influenza A virus  
Influenza A, H5N1, H1N1  
Influenza A, H5, H7 und H9  
Klebsiellaoxytoca  
Klebsiellapneumoniae  
Lactobacillusbrevis  
Lactobacilluslindneri  
Lactobacillusplantarum  
Lactobacillussp

Lactobacilluswildtype  
Legionellapneumophila  
Leuconostocmesenteroides  
Listeria innocua  
Listeria monocytogenes  
Melosiravar.  
MRSA Micrococcusluteus  
Mcrococccimarine  
Micrococcuspyogenesaureus  
Micrococcusroseus  
Micrococcusandidus  
Mucor  
Microsporungypseum  
Mycobacteriumphlei  
Mycobacteriumsmegmatis  
Mycobacteriumspez.  
Nagleriafowleri  
Naumaniellasp.  
Neisseriameningitidis  
Newcastle Diseasevirus  
Nitzschiasp. Norovirus  
Ochrobactrumanthorpi  
Orthopoxvirusvaccinia  
PapovavirusSV-40  
Paramyxovirus  
Pasteurella  
Pedicoccusdamnosus  
Pedicoccussp  
Penicillium  
Penicilliumdigitatum  
Penicilliumroqueforti  
Penicilliumverrucosum  
Pestis(Y. Pestis)

Pichiamembranaefaciens  
Poliovirus 1  
Proteusmirabilis  
Proteusvulgaris  
Pseudomonasaeruginosa  
Pseudomonasacaligenes  
Pseudomonaschlororaphis  
Pseudomonasfluorescens  
Pseudomonaspec.  
Pseudomonassyringaepv. Tomato  
Ralstoniapicketti  
Rhizopus  
Rotatoriag. sp.  
Saccharomycescerevisiae  
Saccharomycesuvarum  
Sacch.cerevisiavar. uvarum  
ssp.carlsbergensis  
Salmonella enteritidis  
Salmonella paratyphi  
Salmonella sp.  
Salmonella typhimurium  
Salmonella typhi  
Salmonella typhosa  
Sarcinalutea  
Staphylococcusagalactiae  
Staphylococcusalbus  
Staphylococcus aureus  
Staphylococcusfaecium  
Staphylococcusmarcescens  
Stephanodiscushantzschii  
Streptococcusfaecalis  
Streptococcuslactis  
Streptococcuspyogenes  
Trichophytonmentagrophytes

Pseudorabies virus  
Trichophytonmentagrophytes  
Pseudorabies virus  
Trophozoiteprotozoainl. Amoebae  
Tuberculosis(Mycobacterium  
Tuberculosis, resistant strain H37 Rv)  
Tuberculosis(Mycobacterium  
Tuberculosis, wild-typestrain)  
Vaccinavirus  
VRE  
V. parahaemolyticus  
Xanthomonascampestris  
Zoogloeasp.



DMD4000

## Overview

Company:	Autonomous Units
Brand:	DMD4000 Robot
Designated use:	Dry Mist Disinfection
Capacity:	4000m <sup>3</sup>
Disinfection speed:	8000ml/h
Tank:	15l
Number of Nozzles:	3
Disinfection levels:	Log3-Log6 = 99.9999%
Spray length:	2-6 meters
Spray angle:	65° (Vertical), 40° (Horizontal)
Sensor coverage	360°
Color	Pure White
Batteries:	2 pc. Li-NMC, 24V, 40Ah
Patent pending Automated solution	
Data & Error reports by SMS or Mail	





## DMD4000

# Dimensions

Length:	890 mm / 35 in
Width:	580 mm / 22.8 in
Height:	989 mm / 39 in
Height above floor:	50 mm / 2 in
Weight:	120 kg / 264 lbs
Ground clearance:	50 mm / 2 in
Min. corridor width:	1000mm / 39 in
Min. door width:	900mm / 35.4 in

DMD4000

## Environment

Ambient temp. Range:	+5°C to 40°C (humidity 10-95% non-condensing)
IP Class:	IP20
Proces compliance:	EN17272 & NFT 72 281:2014
Robot compliance:	CE, EN1525 & ANSI B56.5 Clean Room Certified (ISO Class 4)
Environment:	Indoor only
Noise level:	60-74dB
Charging time	Up to 4 hours (0-80%: 3 hours)
Wifi:	Dual-band wireless AC/G/N/B
Bluetooth:	4.0 LE, range: 10-20 m / 33-66 ft.
Sensor covage:	SICK microScan3 safety system SICK safety laser scanners S300 (2 pcs. front and back) 360° visual protection around robot





**Autonomous Units**