STERISAFE

AUTOMATED
DISINFECTION
SYSTEMS

STERISAFE™- PRO

Whole-room disinfection robot

INFUSER

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DISINFECTION

FULL - DEPTH DISINFECTION CYCLE (FDDC)

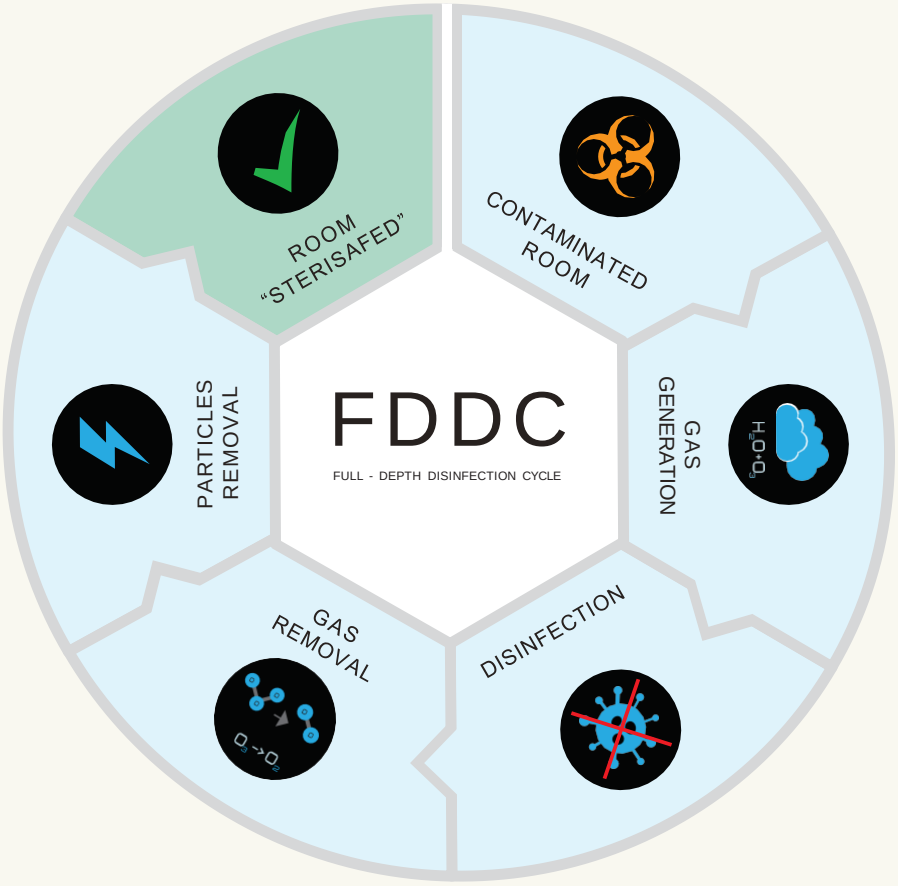
VISUALISATION OF THE SCIENCE BEHIND THE TECHNOLOGY

During the FDDC process, a biocidal gas is created in-situ. The oxygen contained in the ambient air is concentrated, then converted into ozone (O3).
It is thoroughly dispersed in the room. Simultaneously, the humidity level is controlled for optimum disinfection.

The gaseous mixture creates a powerful biocidal environment bathing all surfaces.

Once the disinfection is completed, the process is reversed and the remaining biocidal gas is turned back to harmless oxygen. During the ozone removal stage, the by-products, such as particles and nanoparticles are also removed.

The room is immediately safe to re-enter. The room is free of pathogens, chemicals and particles. The FDDC process takes between 1.5 and 2.5 hours.



STERISAFE™-PRO

World's first whole-room disinfection robot that eliminates up to 99,9999% of the viruses, bacteria and fungi on surfaces, while at the same time purifying the air from particulate matter (PM 2.5 &PM 10) and nanoparticles.

THE TOMORROW OF AUTOMATED ROOM DISINFECTION

- Is chemical free
- Removes by-products and nanoparticles
- Has low running cost
- Is safe for patient and staff
- Is easy to use

HAVING STERISAFE™-PRO AT THE HOSPITAL WARD RESULTS IN

- Reduced hospital acquired infections (HAIs)
- Improved patient outcomes
- Savings

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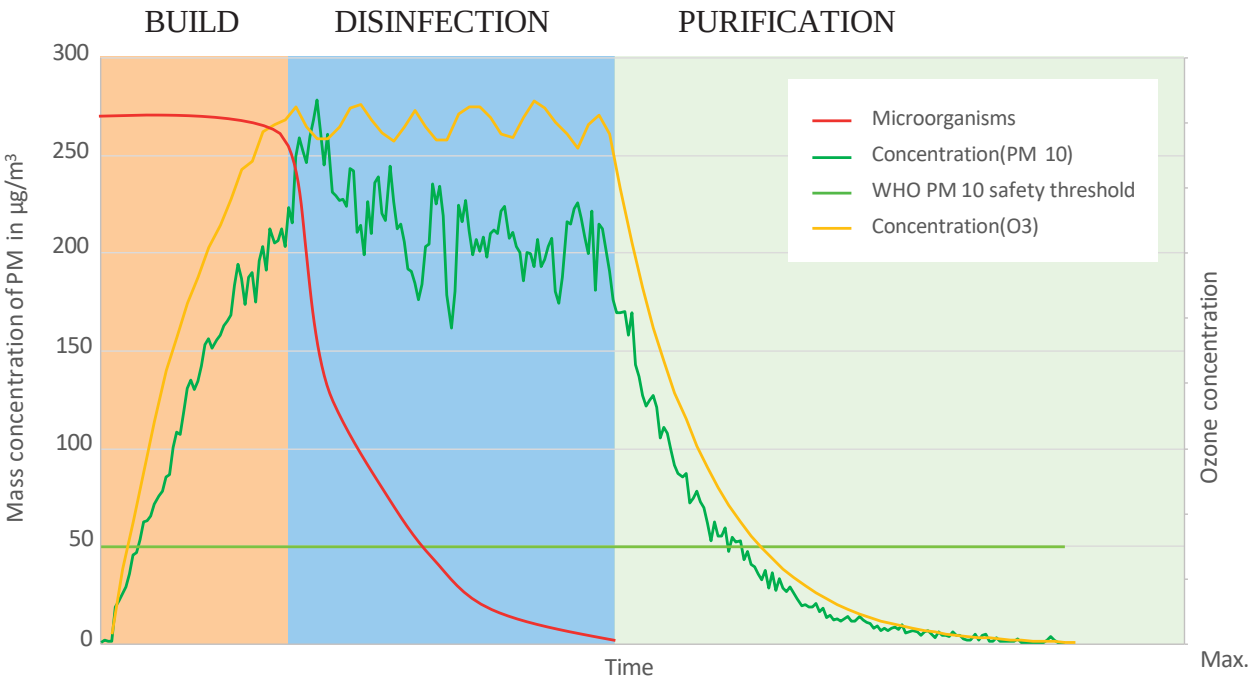
SAFETY, BY-PRODUCTS AND NANOPARTICLES REMOVAL

Safety

- Surface and air disinfection
- Continuous monitoring of the biocide agent
- Active removal of the biocide agent after disinfection
- Compliance with Biocide Product Regulation via EUO3TA and listing by ECHA under Article 93 &95
- No handling and storage of chemicals
- Remote control via wireless tablet
- Safety sealing equipment
- Pocket size sensor to monitor the biocide agent

By-products and nanoparticles removal



PM = Particulate Matter

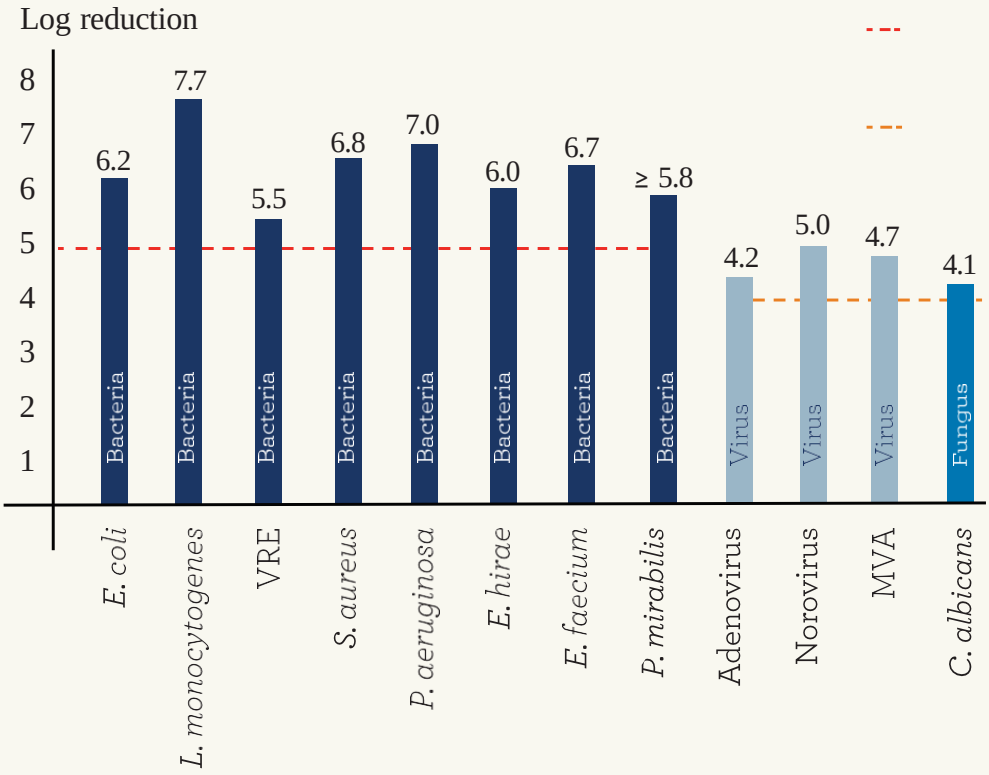
Source: INFUSER ApS R&D Laboratory

BUILDING: Preparation phase DISINFECTION: Disinfection phase PURIFICTION: Electro-catalytic purification phase

TEST DOCUMENTED BY THIRD PARTY LABORATORIES

All tests performed in accordance with standard NF T 72-281(2014), the latest standard for real condition whole-room disinfection.

Biocidal Product Regulation Efficacy March 2017, European Chemicals Agency (ECHA)



5 log reduction NFT 72 281 bactericidal standard

4 log reduction NFT 72 281 virucide and fungicidal standard

Tested according to NF T 72-281 with third party laboratories: **The Danish Technical institute** (DTI)and **Dr. Brill + Dr. Steinmann Institut für Hygiene und Mikrobiologie**

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REFERENCES

STERISAFE™-Pro in operation in Al Emadi Hospital, Doha, Qatar since 2016.

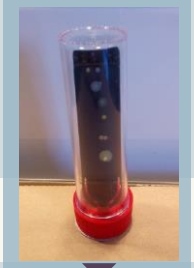
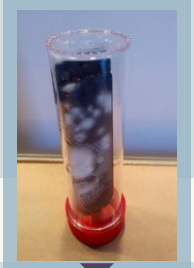
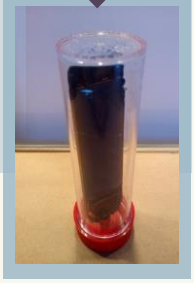
It disinfects weekly operating theaters (OTs) and patient rooms.

Dr. Adel Aziz, Head of Accreditation & Infection Control Department: "**STERISAFE™-Pro** is one of our most strategic procurements. It is a new technology that is chemical free, uses only water and ergonomic to use. It is safe, effective and economical."

STERISAFE™-Pro in operation in a tertiary hospital in the state of Baden-Württemberg, Germany.

STERISAFE™-Pro elevated the level of hygiene in the treated rooms by a factor of 2.6 for <5 CFU/cm² and by a factor of 3.3 for <2.5 CFU/cm².

Visual Hygicult TPC tests

	Door handle entrance door	Door handle balcony door inside	Batroom under the mirror	Wardrobe door inside
After manual cleaning before STERISAFE-Pro terminal disinfection				
After manual cleaning after STERISAFE-Pro terminal disinfection				

INFUSER SCIENCE

INFUSER's science is always based on atmospheric chemistry and on applying nature's own self-cleaning ability. Our innovative technologies help solve the environmental challenges of the modern world - whether fighting multi-resistant bacteria and viruses or removing pollution and odour from factories and inside buildings.

INFUSER's R&D lab is located in the heart of Copenhagen Science City. The University of Copenhagen and The Metropolitan University College assist in the development of STERISAFE™-Pro and the Full-Depth Disinfection Circle (FDDC).

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