

STERISAFE

AUTOMATED  
DISINFECTION  
SYSTEMS



# STERISAFE™ - PRO

Whole-room disinfection robot





INFUSER  
DISINFECTION

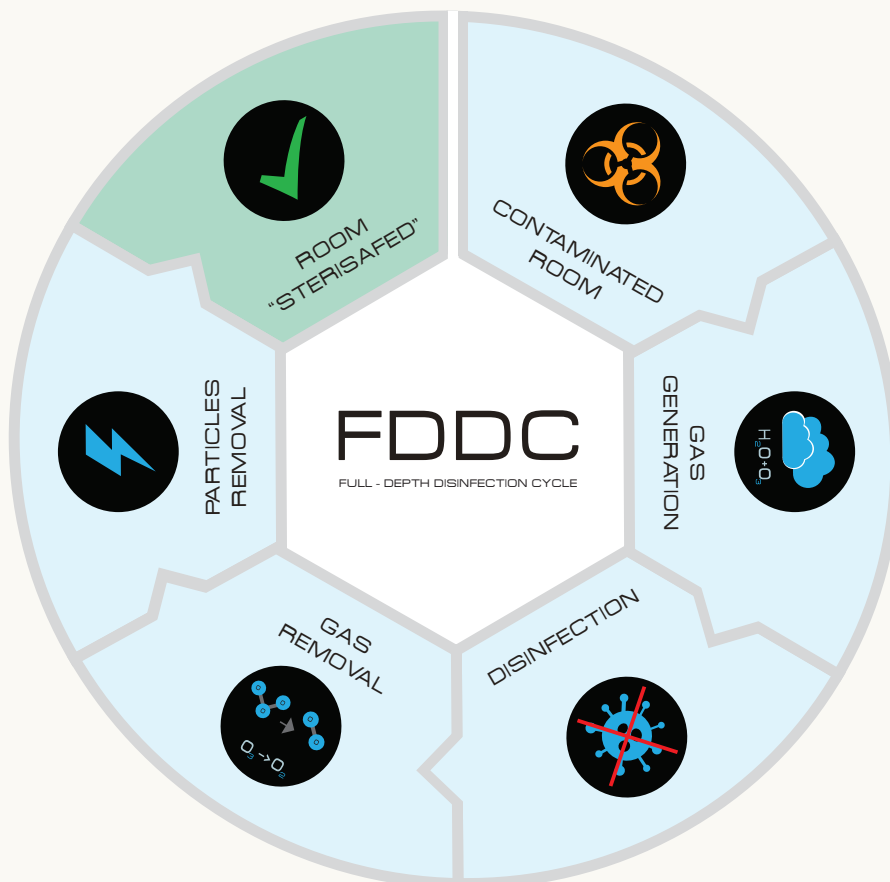
## FULL - DEPTH DISINFECTION CYCLE (FDDC) VISUALISATION OF THE SCIENCE BEHIND THE TECHNOLOGY

During the FDDC process, a biocidal gas is created in-situ. The oxygen contained in the ambient air is concentrated, then converted into ozone ( $O_3$ ). 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 99,999% 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





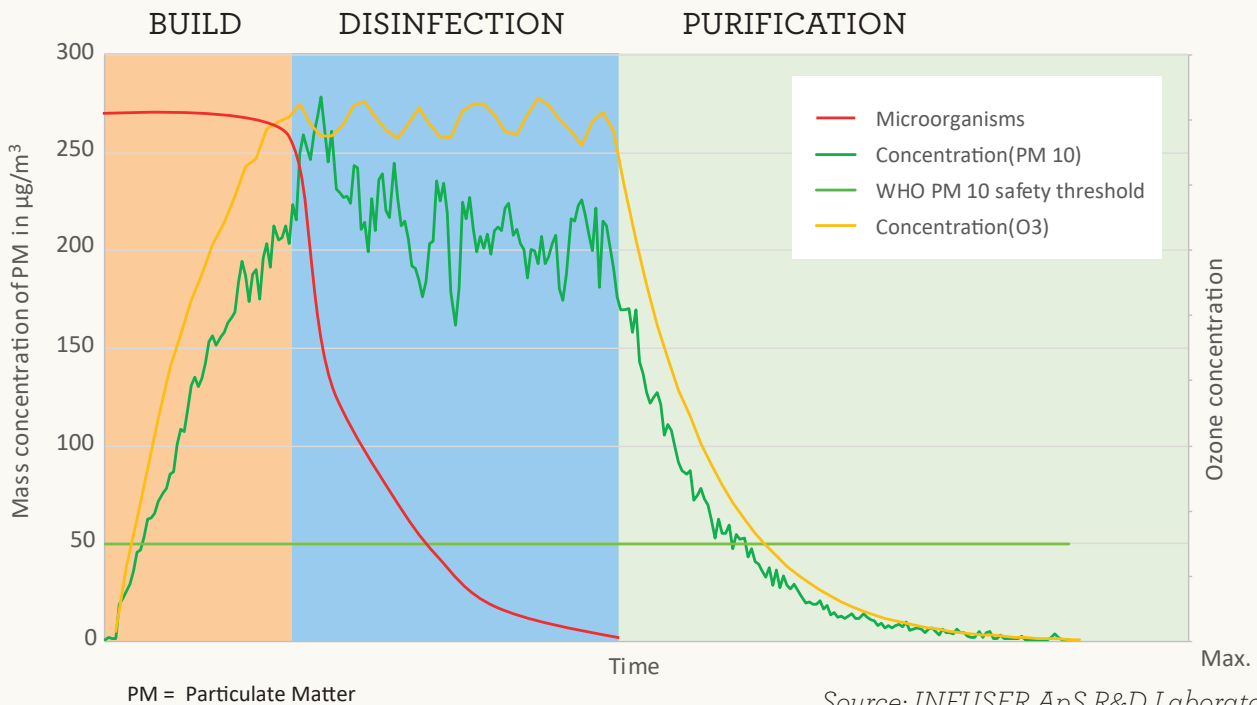
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# SAFETY, BY-PRODUCTS AND NANOPARTICLES REMOVAL

## Safety

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

## By-products and nanoparticles removal



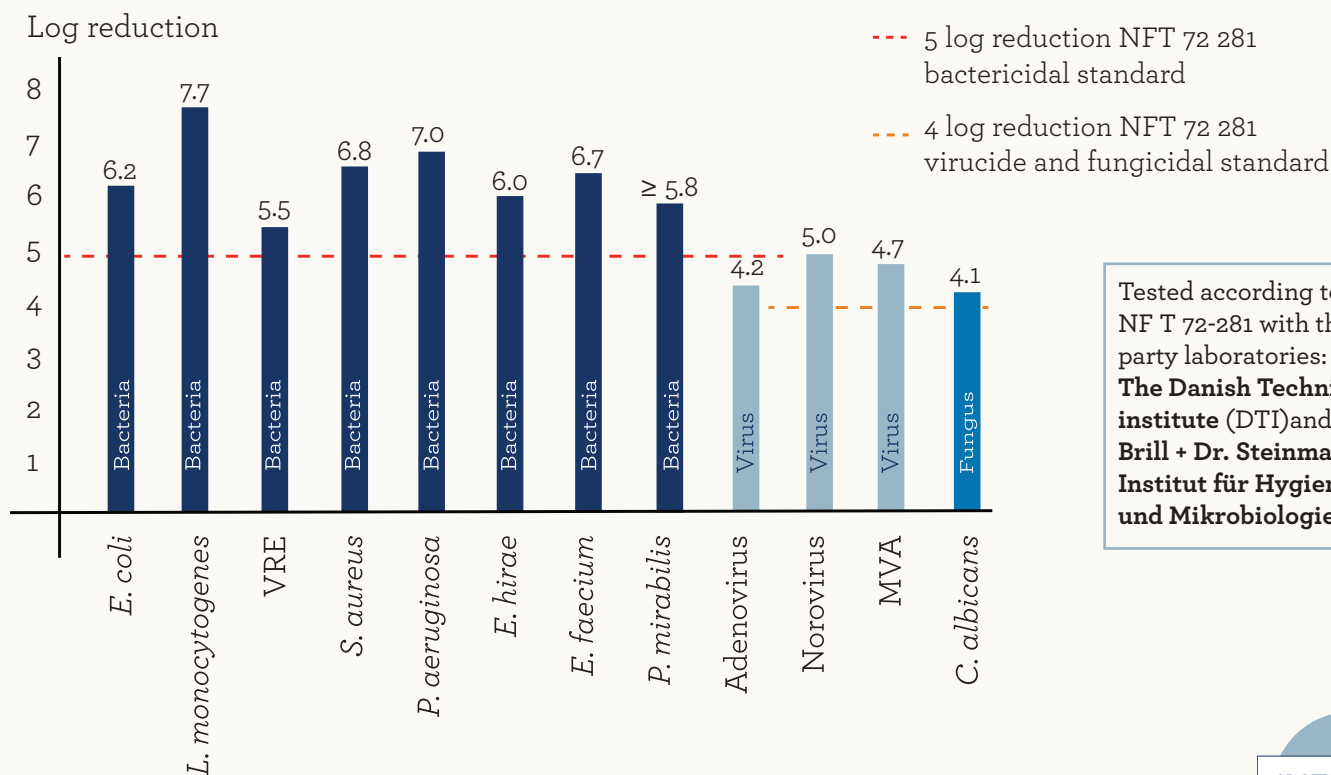
BUILDING: Preparation phase DISINFECTION: Disinfection phase PURIFICATION: Electro-catalytic purification phase



## 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)



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/cm<sup>2</sup> and by a factor of 3.3 for  $<2.5$  CFU/cm<sup>2</sup>.



### **Visual Hygicult TPC tests**

Door handle  
entrance door

Door handle  
balcony door  
inside

Bathroom 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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