



**EQUIPMENT DISINFECTION SOLUTIONS**  
- Get full control of your disinfection processes

**BACTERICIDAL, VIRUCIDAL, FUNGICIDAL & SPORICIDAL**  
- TESTED IN COMPLIANCE WITH EN 17272



# THE STERISAFE DISINFECTION TECHNOLOGY IN A DEDICATED ROOM

**Sustainable ozone based disinfection technology without use of chemicals**

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## **Cost effective solution**

With a very low cost per disinfection cycle, STERISAFE's disinfection technology delivers some of the industry's most cost competitive solutions.



## **Active odour removal**

Ozone is a very powerful disinfectant if used correctly. However, there is another inherent benefit of ozone and that is its highly effective ability to remove foul and unwanted odours.



## **No chemicals**

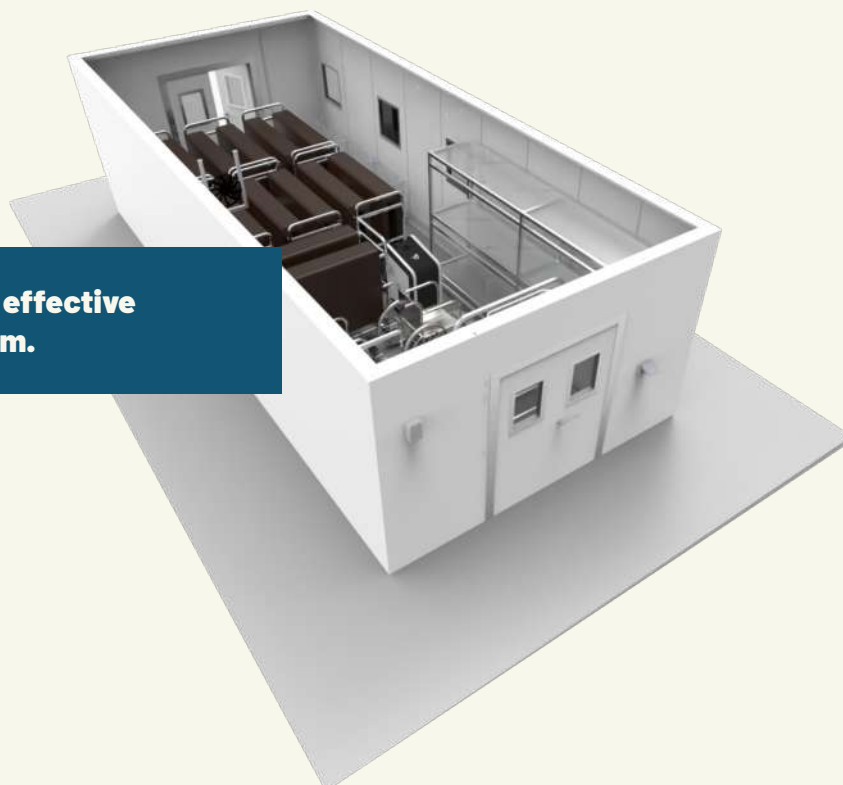
The STERISAFE solution delivers a chemical free alternative to other disinfection processes with a proven and tested biocidal effect of up to 99,99999% reduction of microorganisms. No longer the need to store or handle dangerous chemicals. The technology complies with the EN 17272 standard for bactericidal, virucidal, fungicidal and sporicidal activity.



## **Live monitoring and documentation of every disinfected batch**

The STERISAFE technology is equipped with state-of-the-art sensors and connectivity software. Every disinfection cycle is monitored and the results are automatically stored as a report in the cloud.

**Fast, easy, safe and effective disinfection in a room.**





# Automated disinfection of equipment

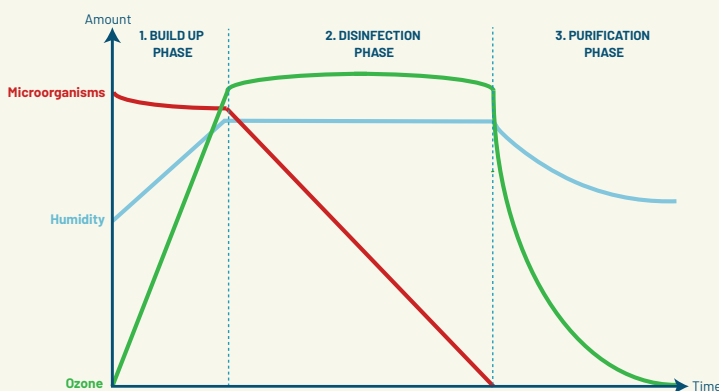
## The Full-Depth Disinfection Cycle technology

STERISAFE's patented Full-Depth Disinfection Cycle (FDDC) technology ensures that all equipment is disinfected fast, easily, safely and effectively.

The disinfection process consists of 3 phases (see graph 1 below): Starting the cycle will initiate the **build-up** and **disinfection phase**. During these phases, relative humidity and ozone in the room will be increased to reach set biocidal concentrations. Relative humidity is needed to strengthen the oxidative capabilities of the ozone gas.

Once disinfection is complete, the room needs to be safe for human operators as quickly as possible. This is achieved in the 3rd **purification phase**, where all the ozone and potential harmful by-products are actively removed. Once all three phases are complete the room is safe to enter, and the operator will automatically get a notification. All phases are monitored live via the operator's tablet, connected to the rooms sensors. After disinfection, a full report is automatically uploaded to the unique STERISAFE STRATOS cloud database software where the data is stored. These reports contain time stamps, batch numbers and data from the disinfection cycle. The software is highly customizable and can be made to suit all needs.

## The Full Depth Disinfection Cycle



Graph 1



*"Coupled with the effectiveness of the system, the validation that STERISAFE measures and stores is invaluable to us and our customers for peace of mind and auditing purposes"*  
 - O'Flynn Medical, Ireland

## Why ozone?



### Homogenous distribution of the biocide

Ozone is a gaseous biocide, with inherent properties which will spread much more easily to all areas of a room from floor to ceiling. This feature is especially useful when disinfecting equipment, when surfaces are often large and equipped with hard-to-reach fixtures and fittings.



### No storage or use of liquid consumables

Ozone is created in situ, which means that there is no need to procure, store hand handle dangerous chemicals.



### Sustainable

Because ozone is created in situ it is a much more sustainable alternative to other chemical-based disinfection processes which have to be manufactured and transported.



### Effective oxidant

Ozone is a very effective oxidant when used correctly. STERISAFE is the world leader in ozone disinfection.

# Current obstacles in equipment disinfection

## Chemicals and consistency

Manual disinfection processes are time consuming, costly, and unreliable.	Equipment disinfection with STERISAFE is fast and cheap because we control the environment automatically and do not use any consumables. The disinfection process consists of a gas-based biocide that is monitored to ensure a reliable and controlled disinfection each time.
Chemicals used in today's disinfection procedures are dangerous and people are often exposed to toxic amounts of chemicals on a daily basis.	A STERISAFE disinfection solution uses no chemicals and are equipped with extensive safety features, such as monitoring and remote control of the biocide, to ensure that operators never come into direct contact with the biocide.
Chemicals does not remove odours as well as ozone.	Ozone is well recognized for its ability to remove odours. At STERISAFE we have taken the step further and adapted it for disinfection as well. A two in one feature!
Many chemical-based solutions including manual cleaning lacks consistency and reliability. In part because of the human error and in part because of staff training.	STERISAFE's disinfection room removes the barrier of human error by being fully automated. It is easy to operate for new staff and requires only little introduction. Monitoring and sensor technology ensures that each batch is disinfected as thorough as the last.

Table 1

When it comes to disinfection of any equipment large or small the key parameter to aim for will always be consistency. If disinfection can be consistent, meaning carried out at the same speed, with the same efficacy and the same attention to detail, the result will always be more than satisfactory. Look at the left column of table 1. These represent just a few of the obstacles in equipment disinfection. The column to the right in Table 1, describes how we at STERISAFE solve these pertinent obstacles.

### **Consistent results for better care!**

At STERISAFE we have developed a solution that gives our clients full control of the disinfection environment. By integrating disinfection with careful monitoring in an airtight room, nothing is left to chance. **We are in full control of all the parameters that makes up for consistent disinfection every time.**

**Biocide concentrations**  
**Contact time**  
**100% surface coverage**  
**Safety**



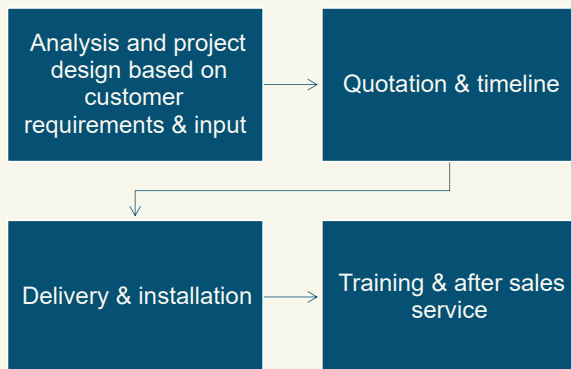


## Customized disinfection and room design

### A turnkey solution

All portable equipment can be treated in our dedicated disinfection room and because two projects are never the same, STERISAFE strives to deliver the best customized disinfection solutions for all our clients. Depending on requirements and needs, we provide everything, from small product installations to large turnkey solutions. The disinfection room can easily be implemented into current facilities or infrastructure.

With STERISAFE you are in good hands from the start. Our product specialist will guide you towards the best solution, based on your preferred and specific needs. From design to technical specifications and installation each solution is thoroughly considered to ensure a perfect fit with our clients requirements.



### Common variables in design

The most common variables in our designs are: efficacy, time consumption & batch size.

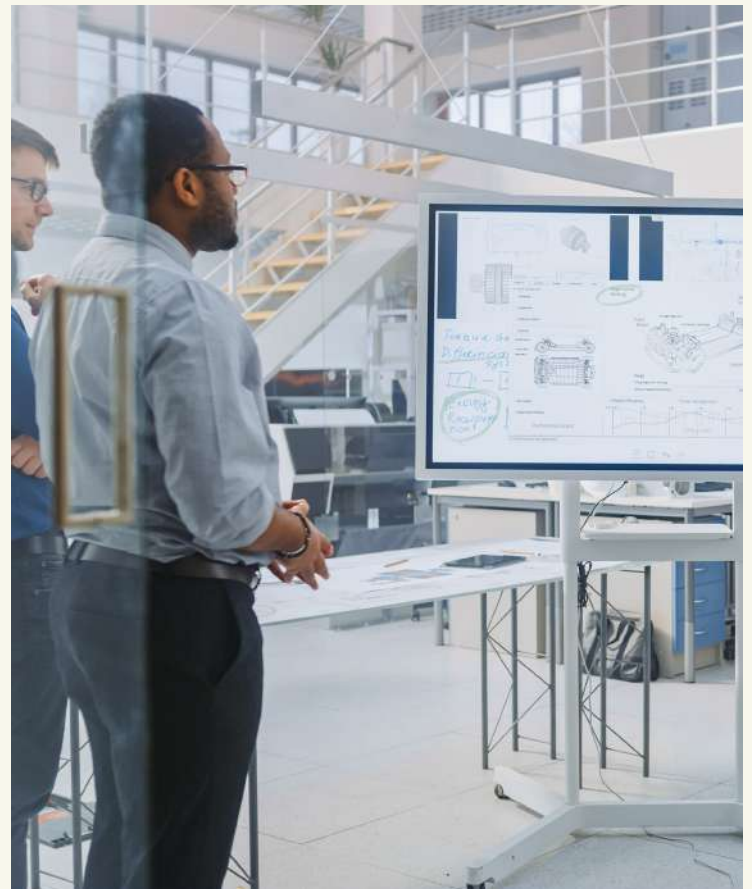
Efficacy



batch size



Time consumption



At STERISAFE, we pride ourselves in delivering trustworthy and accountable solutions to our clients worldwide.

Many years of experience with microbiology and ozone have taught us that disinfection efforts are often wasted without correct use and documentation of processes. This is why we have gone to extra lengths to ensure that our technology performs consistently every time. All our products and solutions are rigorously engineered, tested, documented, and approved to guarantee superior disinfection results, efficacy and safety.

We aim to be transparent in all our findings and to live up the most demanding standards.

# GET IN TOUCH

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