

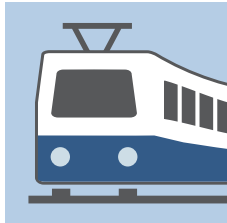


## Smart & Sophisticated Bio Decontamination



efficient.  
innovative.  
safe.

**DCX**  
disinfection control  
extended



No matter  
where...

container  
public transport  
hospital laboratories  
pharmaceutical industry  
hotels ambulances  
kindergarten retirement homes  
schools airplanes  
food industry  
clinics



Staphylococcus aureus . Pseudomonas aeruginosa . KPC (Klebsiella pneumoniae Carbapenemase) . Enterococcus hirae . MRSA (Methicillin resistant S. aureus) . **BACTERIA**. Candida albicans . Aspergillus brasiliensis . Proteus mirabilis . Acinetobacter XDR (Extensively drug resistant) . Escherichia coli . **VIRUS**. Corona Virus (SARS-CoV-2), Human Norovirus (HNV) Feline calicivirus (FCV) . ESBL (Extended-Spectrum Beta-Lactamase) Aspergillus Niger . **SPORES** Geobacillus stearothermophilus. Clostridium difficile . VRE (Vancomycin resistant Enterococcus) **INSECTS** Bed Bugs (Cimex Lectularius)

# Quality controlled Hygiene can save billions

## Microorganisms could be dangerous and a cost factor

4.5+ million people get a nosocomial infection in a hospital in Europe and USA with more than 136.000 direct attributable deaths every year.<sup>1</sup> 600+ million people worldwide get food related infections with more than 420.000 deaths every year.<sup>2</sup> Contaminated vehicles and facilities must remain closed until proper decontamination while contaminated food must be treated as hazardous waste.

## What if we prevent...



Using the latest  
technologies of DCX  
increases your  
hygiene measures  
and safety

<sup>1</sup> [http://www.who.int/gpsc/country\\_work/burden\\_hcai/en/](http://www.who.int/gpsc/country_work/burden_hcai/en/)

<sup>2</sup> <http://www.who.int/mediacentre/factsheets/fs399/en/>



# DCX System Solution for more safety

## DCX sets new hygiene standards

DCX creates micro-aerosols based on a patented technology. The systems vaporize a low concentrated special designed liquid with hydrogen peroxide at room temperature in order to decontaminate the air and all enclosed surfaces. The intelligent system improves hygiene standards by offering reproducible and quality controlled results. Viruses, bacteria, fungi and spores are reduced effectively.

## Proven activity: 99.9999% germ free in 30 minutes

*Geobacillus stearothermophilus* is a spore forming bacteria and recommended by the RKI for the validation of sterilization processes. Several tests with DCX technologies showed a log 6 reduction within 30 minutes.



# DCX System

two powerful model sizes,  
for every application

## DCXplus

Compact, but what a performance.  
Easiest way for routine standard  
decontaminations even when space  
is very limited e.g. ambulances.

**Room volume:** 350 m<sup>3</sup>

**Dimensions:** 410 x 610 x 915 mm

**Weight:** approx. 22 kg

**Voltage:** 80-230 V / 50Hz

**Power:** max. 300 Watts

## DCXpro

Maximum power for maximum outcome.  
Validate your processes or plug in  
additional devices to make it perfectly  
suitable for your demands.

**Room volume:** up to 1.500 m<sup>3</sup>

**Dimensions:** 950 x 450 x 920 mm

**Weight:** approx. 50 kg

**Voltage:** 80-230 V / 50Hz

**Power:** max. 400 Watts

compact  
edition 2022





Different solutions  
especially designed to fit  
your needs for hygiene  
purposes, restaurants  
and food industry  
or pest control



### **Epecially developed and tested fluid to save money and food**

Two DCXpro systems can be used to decontaminate facilities of + 6.000m<sup>3</sup> for outbreak management. Quality controlled hygiene can be achieved with DCX to reduce production losses and reduce the related high costs for waste disposal.

### **Sustainable pest control for optimal facility management**

Bed bugs are a global pest problem and can be found almost everywhere and in higher numbers, e.g. hotels and public transport. The innovative DCX technology has a lasting effect and will save a lot of troubles, a lot of time and money while destroying bed bugs (*cimex lectuarius*), their eggs and increase hygiene at the same time.



# Hygiene saves money, time and lives.



## **Epecially developed for food safety**

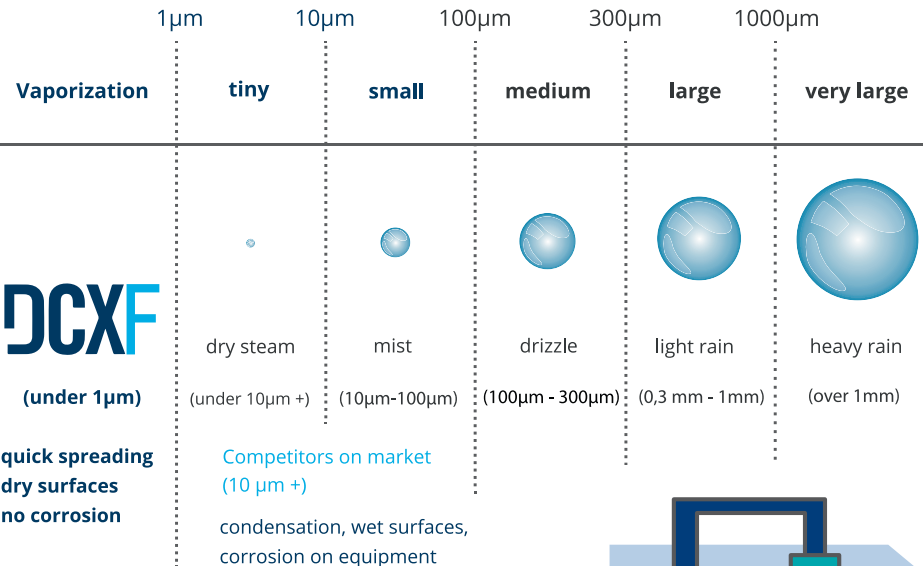
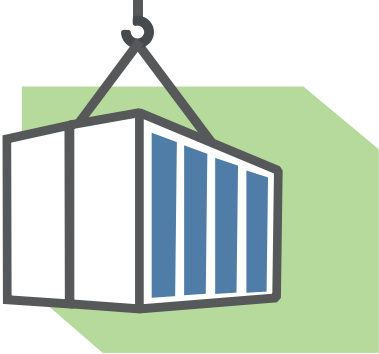
The decontamination with hydrogen peroxide can reduce the chance to get a multi drug resistant organism by 64% and by 80% for Vancomycin resistant Enterococcus VRE. In contrast to former practices, the DCX decontamination provides a well-documented quality controlled process to complete your hygiene protocol.

## **DCX Profitability**

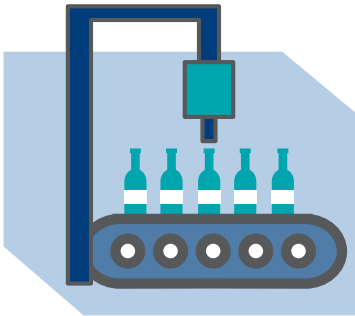
DCX systems reduce costs at many different levels. Decontamination during changeover times could be kept shorter with DCX in comparison to time consuming manual cleaning. Pharma- and food production losses due to contamination could be minimized as well as the costs for hazardous waste disposal. Better hygiene measures can be used to create a positive public image and negative publicity could be prevented at the same time.

**References:** **Facility Management** public and private hygiene provider. **Food industry** animal shelters. **Healthcare** public and private hospitals, ambulances. **Laboratories.**

# Quality controlled DCX Decontamination with **Micro Aerosol**



Quality controlled  
hygiene is essential to  
increase safety where  
microorganisms may  
danger people, animals  
and products.





The 7.5%  $\text{H}_2\text{O}_2$  - concentration is safely applicable, easy to store and biodegradable without any residues.



symbolic photo

### DCX Fluids

Different fluids designed for your needs no matter where e.g. health care facilities, food industry, public transport or facility management.

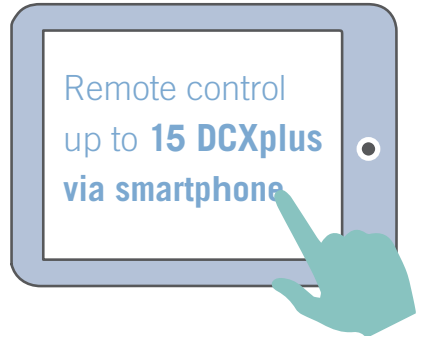
### Effective and residue-free bio-decontamination

DCX systems use a special designed liquid based on low concentrated hydrogen peroxide. During the bio-decontamination, hydrogen peroxide decomposes to water and oxygen. Based on your needs there are different fluids available to be used for infection control, food industry, mould or pest control (*cimex lectularius*).



## How does the DCX decontamination work?

DCX systems such as DCXplus and DCXpro vaporize a special designed hydrogen peroxide liquid solution. Furthermore, micro-aerosols also offer excellent compatibility for a variety of materials, electronic devices and electrical systems, which means that electronically devices may remain inside the room.



**DCX supplies**  
for maximum impact  
and your safety

## DCX Utility Box

Additionally, also accessories, personal protective clothes, sensors and sealing materials have been developed and tested in order to offer not just the best technology, but also a complete fast solution for room, air and surface decontamination.



“The room disinfection with cold aerosolized hydrogen peroxide is a promising new approach to surface decontamination.”

Univ.-Prof. Dr. Franz Allerberger\*

## Reproducible process according to plan

Standard hygiene measures are mostly carried out manually with hardly or even without any objective quality control. The DCX process runs fully automatic and regulates itself based on sensor measurements. DCXF-Fluid is certified as disinfectant and recommended by VAH (GER).

\*Former head of the Austrian Agency for Health and Food Safety (AGES), Dep Public

## verified & patented



# DCX Systems

## Technical specifications

Dimensions mm (L / W / H)  
Weight  
Voltage  
Power  
Room size  
Type of protection  
Insulation class  
Battery operation

### DCXplus

610 x 410 x 915  
approx. 22 kg  
80-230 V / 50 Hz  
max. 300 Watts  
500m<sup>3</sup>  
IP20  
Class I  
2 x Lithium-ion (48V; 14,4 AH)

### DCXpro

950 x 450 x 920  
approx. 50kg  
230 V / 50 Hz  
max. 400 Watts  
up to 1500m<sup>3</sup>  
IP10  
Class I + Class II  
No

## H<sub>2</sub>O<sub>2</sub>-Steamgenerator

Atomizing Process  
Size of aerosol  
Operation temperature

ultra-sonic  
< 1 µm  
15 to 35°C

ultra-sonic  
< 1 µm  
15 to 35°C

## DCXF-Fluid

H<sub>2</sub>O<sub>2</sub> -concentration  
Canister Volume  
Storage up to

7.5 %  
10 L  
30°C

## DCXF-AP Fluid

H<sub>2</sub>O<sub>2</sub> -concentration  
Canister Volume  
Storage up to

7.5 % & 0,32 % Natur Pyrethrum  
10 L  
30°C

We reserve the right to make technical changes  
in the course of further development

## Certifications

CE compliant in accordance with relevant  
standards of the applicable EU. DCX technology certified according to EN 17272

## Certified Desinfectant

DCX Fluids are listed as effective disinfectant and recommended  
by the following organizations: VAH, Association for Applied Hygiene,  
Germany. ÖGHMP, Austrian Society for Hygiene, Microbiology and  
Preventive Medicine. All Austrian manufacturers are ISO certified.



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EN 17272