

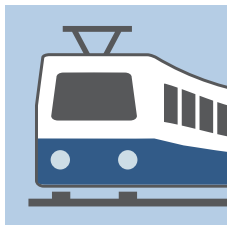


## Smart & Sophisticated Bio Decontamination



efficient.  
innovative.  
safe.

**DCX**  
disinfection control  
extended



No matter  
where...

container  
public transport  
hospital  
laboratories  
pharmaceutical industry  
hotels  
ambulances  
retirement homes  
kindergarten  
airplanes  
schools  
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**. 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 after 30 minutes.





# DCX System

two powerful model sizes,  
for every application

## DCXpert

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

**Room size:** 3.000 m<sup>3</sup> +  
**Dimensions:** 1256 x 590 x 920 mm  
**Weight:** approx. 90 kg  
**Voltage:** 230 V / 50Hz  
**Power:** max. 600 Watts

## DCXpro

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

**Room size:** up to 1.500 m<sup>3</sup>  
**Dimensions:** 950 x 450 x 920 mm  
**Weight:** approx. 50 kg  
**Voltage:** 230 V / 50Hz  
**Power:** max. 400 Watts

compact  
edition



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



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

Two DCXpert 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.

### **Fast 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 approach will save a lot of troubles, a lot of time and money while destroying bed bugs (*cimex lectularius*), their eggs and increase hygiene at the same time.



# Hygiene saves money, time and lives.



## Especially developed for food safety

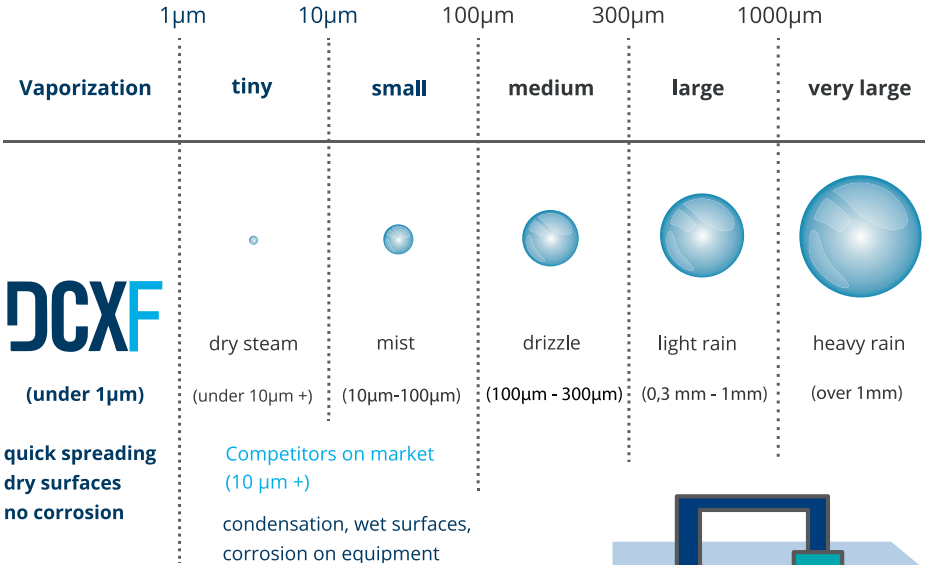
The decontamination with hydrogen peroxide can reduce the chance to get a multi drug resistant organism by 64% and by 80% for Vancomycin resistant Enterococcus VRE. In contrast to former practices, the DCX decontamination provides a well-documented quality controlled process to complete your hygiene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

## DCX Profitability

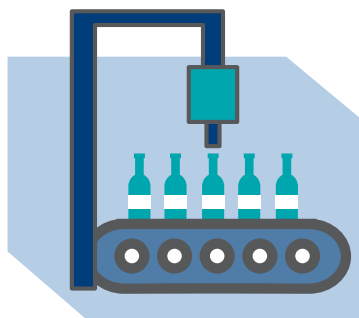
DCX systems reduce costs at many different levels. Decontamination during changeover times could be kept shorter with DCX in comparison to time consuming manual cleaning. Pharma- and food production losses due to contamination could be minimized as well as the costs for hazardous waste disposal. Better 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% H<sub>2</sub>O<sub>2</sub>-  
concentration is safely  
applicable, easy to store  
and biodegradable  
without any residues.



### 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 hygiene purpose, food industry or pest control (cimex lectuarius).



## How does the DCX decontamination work?

DCX systems such as DCXpert 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



### DCXpert Utility Kit

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 solution for room 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) and ÖGHMP (AT).

\*Head of the Austrian Agency for Health and Food Safety (AGES), Dep Public and former president of the Austrian Society for Hygiene, Microbiology and Preventive Medicine (ÖGHMP)

## verified & patented

**Zertifikat / Certificate**

Verband für Angewandte Hygiene (VAH)  
Austrian Society for Hygiene, Microbiology and Preventive Medicine (ÖGHMP)  
Deutscher Berufsverband für Hygiene- und Desinfektionsfachleute e.V. (DBfH)

DCX Technologies GmbH  
Karl-Liebknecht-Str. 10  
10245 Berlin

Bezeichnung	Vollständig	Anzahl
DCX Technologies GmbH		

DCX Technologies GmbH  
Karl-Liebknecht-Str. 10  
10245 Berlin

**CE - Konformitätsklärung**

DCX Technologies

Hersteller: DCX Technologies GmbH  
Karl-Liebknecht-Str. 10  
10245 Berlin

Produkt: DCX Technologies GmbH  
Karl-Liebknecht-Str. 10  
10245 Berlin

**发明专利证书**  
Certificate of Innovation Patent

发明专利证书  
发明专利证书

发明专利证书

发明专利证书

**Expertise**

DCXF (Wasserdampf)

auf Basis von Messergebnissen und Daten aus dem Jahr 2012 und 2013 von Dr. phil. T. Kolberger (C) am 11.02.2014 und Dr. phil. T. Kolberger (C) am 11.02.2014 (siehe auch die 18. Seite auf seine persönliche Mitteilung)

Aufgrund der Ergebnisse dieser Prüfungen bescheinigt die Sachverständigenkommission (siehe die bei folgender Kennzahl) mit Ein- und unter geringer Belastung gegen Bakterien (ausgenommen Tuberkulosebakterien) und Bsp. gegen Pilze (ausgenommen Aspergillus) einen

**Patenturkunde**

Gemäß dem Patentrechtgesetz ist für die in der angefügten Patentschrift beschriebene Erfindung ein Patent unter der Nummer 512219 erteilt worden.

Wien, am 15. Juni 2016

Österreichisches Patentamt



www.dcxtec.com

# DCX Systems

## Technical specifications

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

## DCXpert

1256 x 590 x 920  
approx. 90 kg  
230 V / 50 Hz  
max. 600 Watts  
3000m<sup>3</sup>+  
IP10  
Class I + Class II

## DCXpro

950 x 450 x 920  
approx. 50 kg  
230 V / 50 Hz  
max. 400 Watts  
up to 1500m<sup>3</sup>  
IP10  
Class I + Class II

## 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

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

## Certification of Conformity

CE compliant in accordance with relevant  
standarts of the applicable EU.

## Certified Disinfectant

DCXFluid is 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.

# DCX

disinfection control  
extended

DCX Technologies GmbH

Grinzing Allee 5  
1190 Vienna  
office@dcxtec.at  
www.dcxtec.com