



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.¹ 600+ million people worldwide get food related infections with more than 420.000 deaths every year.² 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

¹ http://www.who.int/gpsc/country_work/burden_hcai/en/
² <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 m³ +
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 m³
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 in public transportation, 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 + 6.000m³ 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

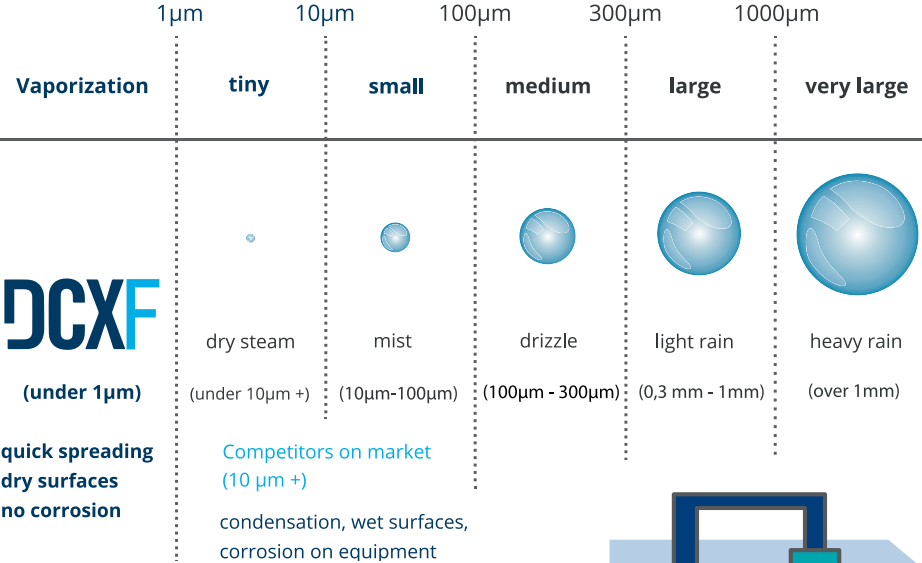
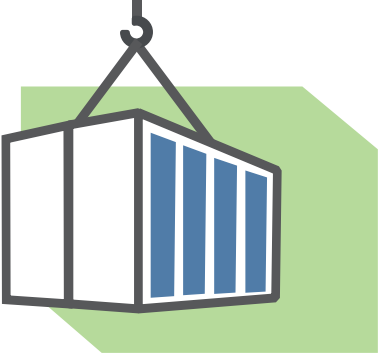
The decontamination with hydrogen peroxide can reduce the chance to get a multi drug resistant organism by 64% and by 80% for Vancomycin resistant Enterococcus VRE. In contrast to former practices, the DCX decontamination provides a well-documented quality controlled process to complete your hygiene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

DCX Profitability

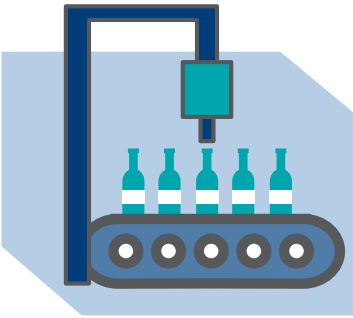
DCX systems reduce costs at many different levels. Decontamination during changeover times could be kept shorter with DCX in comparison to time consuming manual cleaning. Pharma- and food production losses due to contamination could be minimized as well as the costs for hazardous waste disposal. Better 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 endanger people, animals and products.



The 7.5% H₂O₂-
concentration is safely
applicable, easy to store
and biodegradable with-
out 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 specially 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 lectularius*).



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



DCX 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, surface and air decontamination.

“The room and air 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 and listed 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



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DCX Systems

Technical specifications

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

DCXpert

1256 x 590 x 920
approx. 90 kg
230 V / 50 Hz
max. 600 Watts
3000m³+
IP10
Class I + Class II

DCXpro

950 x 450 x 920
approx. 50kg
230 V / 50 Hz
max. 400 Watts
up to 1500m³
IP10
Class I + Class II

H₂O₂-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

H₂O₂ –concentration 7.5 %
Canister Volume 10 L
Storage up to 30°C

DCXF-AP Fluid

H₂O₂ –concentration 7.5 % & 0,32 % natural Pyrethrum
Canister Volume 10 L
Storage up to 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
standards of the applicable EU.

Certified Disinfectants

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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