

Unique Aircraft Disinfection Performance





Who we are

Jonas Scheld

- Licensed Aircraft Technician, EASA certifying staff B1 for airline and business aviation with 13 years well-founded experience
- Worked the last 7 years as self-employed flight engineer/certifying staff B1 on BBJ's + Global 6000 , joined Ryanair (REGG) in April 2020 in Frankfurt
- State certified disinfectant according German infection protection act (IfsG) §17 Abs. 3
- Worldwide experience in aircraft maintenance, completion, refurbishment and operations



Dr. Heiner Börger

- Studied Social- and Business Communication at the HDK Berlin (Hochschule der Künste)
- Directed a corporate event production company (CCS Commercial Communication Studios GmbH) in Frankfurt for 15 years
- Aviation professional since 1999 as helicopter pilot

A microscopic image showing numerous virus particles, likely influenza, with their characteristic spherical shape and surface spikes. The particles are illuminated in a blueish-white light against a dark background.

Motivation

The past few months have shown how quickly a pandemic can spread globally. The dramatic consequences affect not only the economy, but all of us. Global air traffic spreads a virus across the world within days, possibly before an epidemic is even detected at the place of origin.

An Interruption of these global transmission chains is therefore a central task in order to effectively prevent future pandemics.

Today, new developed disinfection techniques allow highly effective and safe disinfection services for **aviation** & facility management as well as pharma industry (origin) and healthcare – bringing the safety of us all a decisive step further. Meeting the extremely high requirements of aviation the disinfection service may also be used everywhere else.

What we do

We are specialists for professional disinfection of commercial aircraft. According to the aircraft operators' specific requirements, we offer approved, customized disinfection solutions, starting with certified wipe on/off disinfections up to novel, highly efficient surface and cabin air disinfection technologies.

Since beginning of 2020 we are able to offer a unique highly effective and safe disinfection service for aviation that makes a significant difference to the safety for all of us.

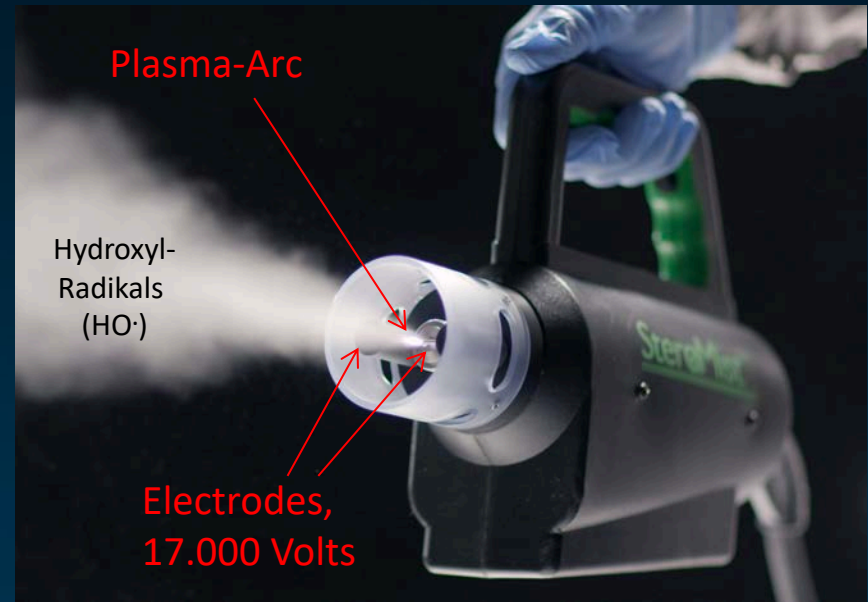


SteraMist®

Developed by the
U.S. Department of Defense
against feared anthrax attacks
after September 11th 2001

The SteraMist® Disinfection System

- Hydrogen peroxide molecules are becoming ionized by being sprayed over a high-energy atmospheric cold plasma arc. During this process they convert into hydroxyl radicals
- Particle size of the ionized mist: only 0.5 - 3 Micron
- Thereby the mist distributes like a gas - under hand guided control



Radicals have single, unpaired electrons and are therefore very reactive



SteraMist®
Highest Efficacy



HYDROXYL RADICALS

- destroy pathogenic organisms by oxidizing proteins, carbohydrates and lipids
- kill or inactivate all bacteria, viruses and spores including SARS-CoV-2 in seconds
- have a tremendous kill rate: $\text{Log}^{-6} = 99,9999\%$!

SteraMist®

Approved for Aircraft



- Not corrosive or harmful in any other way to the structure, electronics/avionics or the interior of the aircraft
- Approved by the EPA (Environmental Protection Agency, USA), explicit for use in airplanes.
- EASA conforms the use on aircraft, as the H_2O_2 values are below the given limits by EASA in:
SD Guidance on aircraft cleaning and disinfection - Issue 2





SteraMist®

The most Efficient Solution for Aviation

- Excellent gas-like distribution
- Ultra low contact time
- Ultra high killing rate
- Not corrosive and harmless to any material
- Absolutely safe for humans and animals
- Usable even for the cockpit
- Approved by authorities



SteraMist®

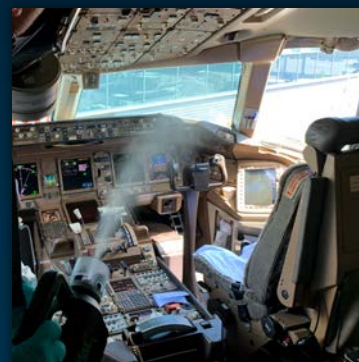
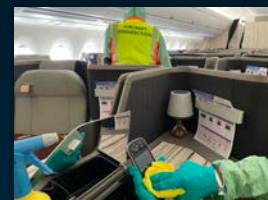
Benefits at a glance

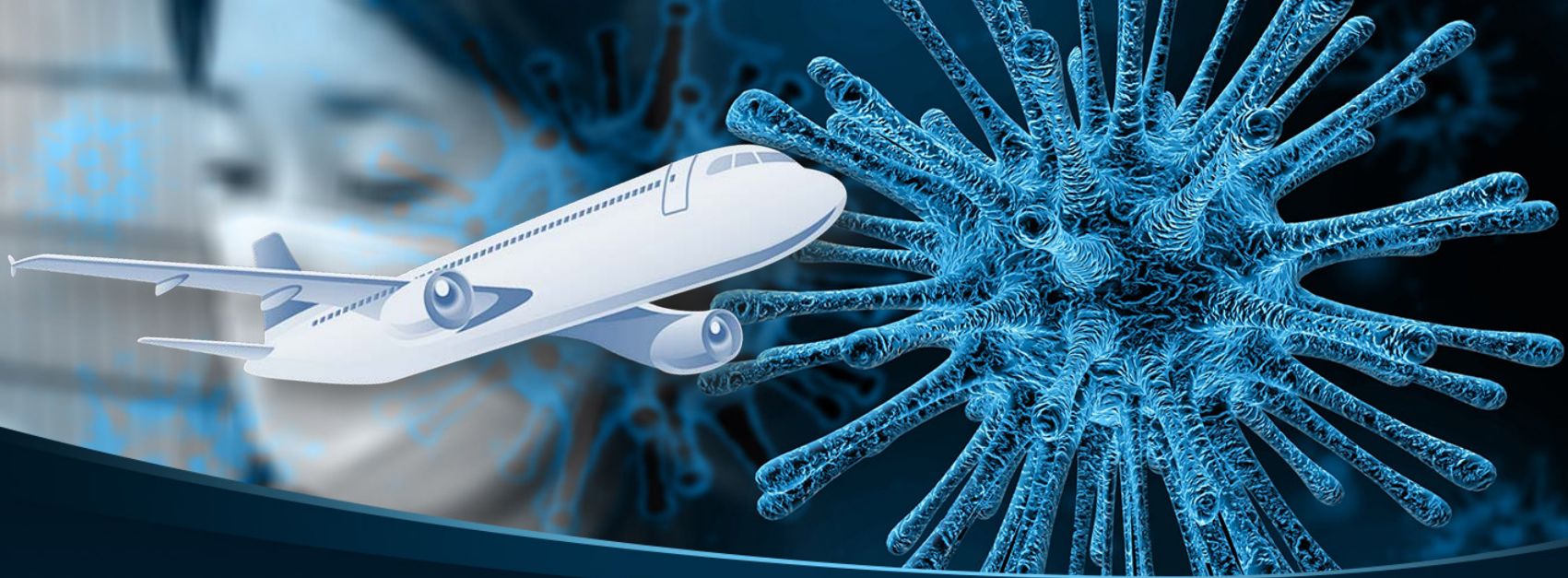
- **MAXIMUM SAFETY** for passengers & crew by 99,9999% kill rate
- **SHORT DOWNTIMES** through fast application and effectiveness
- **COMPLIES WITH EASA** regulations / recommendations
- **WELL COMMUNICABLE** evidence for responsible care



Disinfection-Methods for Airplanes

Sterile by SCHELD AVIATION SERVICE	BACOBAN DL FOR AVIATION	ALCOHOL ISOPROPYL 75%	STERAMIST Hydroxyl Radicals	ZEP IND. RTU DISINFECTANT	ZIP CHEM CALLA 1452
Method	Spray & Wipe	Spray & Wipe	iHP - Aerosol	Spray & Wipe	Spray & Wipe
Approved in Europe	✓	✓	✓	✗	✗
Compliant with EASA regulations	✓	✓	✓	✓	✓
Approved for all airplanes	✓	✓	✓	✓	✓
Tested by Airbus/Boeing	✓	✓	✗	✓	✓
Recommended for use in cockpit	limited	limited	✓	limited	limited
Efficiency / Effectiveness (combined)	75%	80%	100%	75%	75%
Turn-Around Disinfection of High Touch Areas (up to Boeing 777 / A330):					
Duration:	75 min	65 min	55 min	90 min	90 min
Costs:	990 €	970 €	950 €	not available	not available
Disinfection / Sanitization of COCKPIT ONLY:					
Duration:	20 min	20 min	15 min	not available	not available
Costs:	479 €	469 €	449 €	not available	not available





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