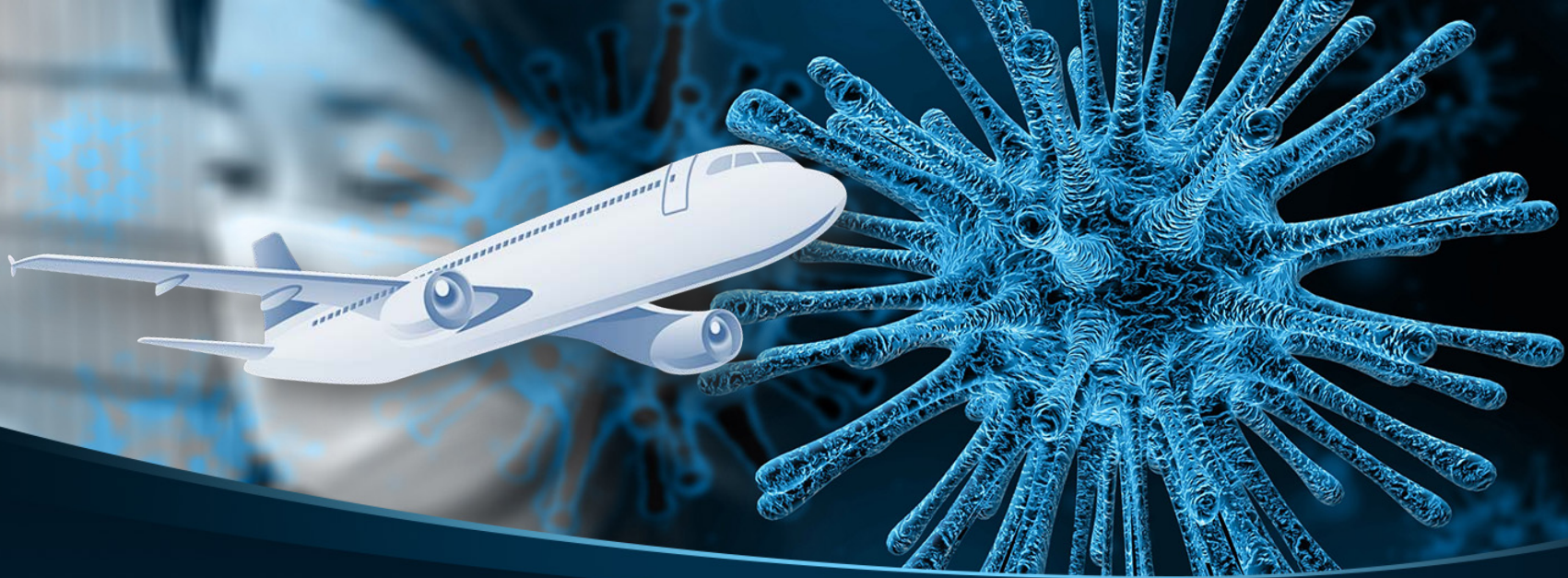


Scheld Aviation Service

Unique Disinfection Performance

www.scheld-aviation.com

sterile
by **SCHELD**
Aviation Service



Presentation - Aircraft disinfection with SteraMist

www.scheld-aviation.com

sterile
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Agenda

- Personal Information
- Key advantages
- The Binary Ionization Technology
- QRT – Quick Response Team
- Our service portfolio
- FAQ's
- Aviation related documents
- Media response about SteraMist




Business ready to fly... !

A microscopic image of a virus particle, possibly a bacteriophage, with a complex, multi-segmented structure. The image is heavily blue-tinted and serves as a background for the slide. A dark blue curved line separates the top image from the text area.


Personal information



Scheld Aviation Service - The Company



Scheld Aviation Service brings disinfection to the next level. Using the only non-corrosive method for aircrafts also applicable for the cockpit, we support to keep your operations save and running during these difficult times. Our experts disinfect all kinds of aircrafts, Simulators (FFS) and also other highly sensible products e.g. server - or surgery rooms. Despite disinfection and consulting services, we offer buying and renting options for the unique technology including full service offers to meet the different needs of our customers.



Jonas Scheld – CEO

- Certified Flight Engineer / State Certified Disinfectant -

Dr. Heiner Börger - CEO

- Helicopter Pilot-

Personal Information – The founders



Jonas Scheld - CEO

- Licensed Aircraft Technician B1 for airline and business aviation with 13 years well-founded experience
- Started in 2013 as self-employed flight engineer/certifying staff B1 on BBJ's and Global 6000 under Scheld Aviation Service
- state certified disinfectant acc IfsG §17 Abs . 3
- Worldwide experience in aircraft maintenance, completion, refurbishment and operations



Dr. Heiner Börger - CEO

- Studied advertising in Berlin
- Directed an event agency for over 15 years, realizing marketing and key account management events
- Aviation professional since 1999 as helicopter pilot in Germany, USA, South Africa in advertising/photo/film business and V.I.P. travel

Key Advantages

Key Advantages of our disinfection solution

Cost efficient

- No long-term damage
- Easy to transport
- Reduced manpower needed
- Less service from cleaning companies needed

Less ground time

- Time saving procedures available
- Service delivery during short turnarounds possible
- Ready to board 30 minutes after finished disinfection

Increased efficiency

- Faster solution with around 50% time saving compared to normal disinfection procedures

Positive PR effect

- Crew (internally)
- Media, PR and others (externally)

State of the art technology

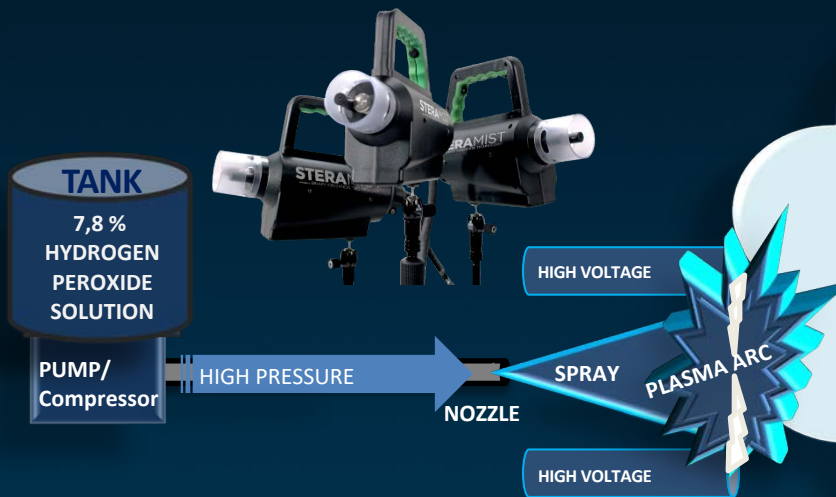
- Helps to eliminate a wide range of microorganisms in seconds
- Environmental friendly

NO biohazard left behind

- The technology allows the disinfection without any contaminated waste left behind

The Binary Ionization Technology

Binary Ionization Technology



IONIZED FOG

- Inactivates or kills pathogenic organisms through oxidation of proteins, carbohydrates and lipids
- log 6 reduction = 99,9999% (from 1 mio. pathogens only 1 remains)
- Leads to cellular disruption and/or dysfunction in just a few seconds
- Eliminates all bacteria, viruses, spores including Corona
- Also suitable for mold mitigation and remediation

Binary Ionization Technology

The one and only solution for aviation

- ✓ EPA registered technology
- ✓ The fog moves like a gas
- ✓ Working very fast
- ✓ Not corrosive at all
- ✓ Harmless to any material
- ✓ Usable for the cockpit
- ✓ Only classified as irritant



A microscopic view of numerous virus particles, appearing as blue, branching, and filamentous structures against a dark background.

Binary Ionization Technology

Technology is EPA registered

- H_2O_2 converts into ROS - Reactive Oxygen Species after passing an atmospheric cold plasma arc - highly effective against all known infectious microorganisms
- Does not contaminate the environment with any toxic by-products at all
- No wipe, no rinse - leaves no residues!



Binary Ionization Technology

The fog moves like a gas

- Even unreachable areas will be covered
- Easy to remove & ventilated via the airconditioning
- Will also decontaminate HEPA filters
- very low risk of application errors and missing out on areas compared to other methods



Binary Ionization Technology

Working very fast

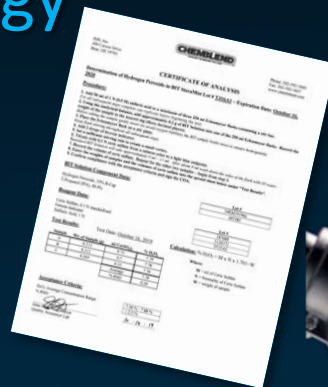
- All infectious microorganisms e.g. viruses or spores will be killed in only 5 seconds (SARS-CoV-2 in 3,5 seconds)
- Allows fast treatment of the complete aircraft including cockpit & cabin in approx. 1,5 hour, proven on a Boeing 737-800 with one unit. (half the time with two units)
- Smaller Jets within only 30 min



Binary Ionization Technology

Not corrosive at all

- Zero danger of corrosion for the aircraft aluminum structure, screws or other easy to corrode materials even when exposed due to scratches o.s.
- **NO** other H₂O₂ solution on the market is non-corrosive
- Approved for airplane use



Binary Ionization Technology

Harmless to any material

- Hard surfaces, soft surfaces, floors - even the finest fabrics and textiles will not be damaged in any way
- Especial suitable for any Private/Business Jet like a small Citation or a Boeing Business Jet
- No mechanical wiping (no scratches)
- No need to apply strong disinfectants on fine or delicate materials/surfaces





Binary Ionization Technology

Usable for the cockpit

- LRU's, screens, switches, cables, headsets, checklists - All that can be disinfected without any special caution



Binary Ionization Technology

Classified only as irritant

- No mixing required, no special clean up or biohazard material disposal required, no rinse, no wipe, no residue
- No hazardous DOT restriction for world-wide transportation or special requirements for transportation
- The first-choice technology for missions anywhere away from home base



Different disinfection methods – Overview at a glance

Disinfection Method	Kill log-6 reduction of 99,9999%	No long-term damage due to corrosion	Suitable for cockpit	No harm to any material	No special atmosphere (P,V,T) needed	Air conditioning has positive/no impact	No residues	No biohazard materials left behind	Environmental friendly	Needed time for application	*Compatibility to materials
BIT™ Binary Ionization Technology	✓	✓	✓	✓	✓	✓	✓	✓	✓	1 hour + ventilation time (15 min)	Non corrosive, no wipe, no rinse, no damage to any material
Scouring wipe with alcohol based on solutions	✗	✓	✗	✗ *	✓	✓	✗	✗	✗	Depends on manpower 2 min, exposure time on surface plus time for rinse	Damage trough wiping (scratches)
Fogging with H2O2	✗	✗	✗	✗ *	✗	✗	✓	✓	✗	Entire volume of cabin has to be filled. 2-4 hours + ventilation time	Highly corrosive, may damage materials
Fogging with H2O2 & silver	✗	✗	✗	✗ *	✗	✗	✗	✓	✗	Entire volume of cabin has to be filled. 2-4 hours + ventilation time	Moderately corrosive, may damage materials, residues of silver



One solution combining all advantages



- ✓ The fog moves like a gas
- ✓ Not corrosive at all
- ✓ Harmless to any material including delicate and valuable fabrics
- ✓ Usable for the cockpit
- ✓ Only classified as irritant
- ✓ The only non-corrosive system for aviation industry suitable for electronics
- ✓ Time and cost-efficient solution preventing long-term damages due to corrosion
- ✓ EPA registered technology leader
- ✓ 50% faster treatment compared to competitors
- ✓ Ready to board only 20 minutes after disinfection
- ✓ No biohazard left behind
- ✓ OMRI listed For Organic Use
- ✓ Easy to transport and only classified as irritant
- ✓ Long-term aviation professionals with in-depth market knowledge
- ✓ Providing and developing procedures for aircraft disinfection
- ✓ Helping to prevent possible upcoming worldwide pandemic
- ✓ Giving support to get the aircraft traffic back to normal


Quick Response Team

QRT – Quick Response Team

Unique, fast and reliable support

- Our Quick Response Team is ready to start within minutes to support you anywhere
- Via helicopter we can reach even remote places 24/7
- We will be faster since we are not only relying on public transport or major airports to reach our destination

Helicopter flight time from FRA (in hrs):



Berlin-Tegel:	02:50
Bremen:	02:10
Brussels:	02:00
Dortmund:	01:10
Düsseldorf:	01:15
Eindhoven:	01:40
Hamburg:	02:40
Hannover:	01:50
Köln/Bonn:	00:55
Leipzig:	01:55
Mailand:	03:00
Osnabrück:	03:00
Nürnberg:	01:10
Paderborn:	01:10
Saarbrücken:	00:55
Stuttgart:	00:55

Service Portfolio

Products and Services - We offer a holistic service approach

Hardware

Selling and rental of SteraMist™ surface and environmental units and BIT solution as licensed distributor in EU & Russia

Service

Time-flexible rental models with two service packages including maintenance, repair & 24/7 support (basic, premium)

Disinfection

Providing highly professional and exclusive disinfection mainly for Private/Business Jets with our team

Training & Consulting

Knowledge transfer as consulting for operators & airlines and training of external staff to deliver high-quality service standards

Customer centricity | Flexible solutions | Exclusive Distributor for Europe and Russia | In-depth industry knowledge | Training | State of the art technology

FAQ's

FAQ – What is the science behind the technology?

SteraMist™ produces a visible mist/fog, which is composed of the Reactive Oxygen Species (ROS), the Hydroxyl Radical.

These are created by mechanically altering the sole active ingredient, hydrogen peroxide, in TOMI's BIT™ solution, by passing through the cold plasma arc.

FAQ – Difference SteraMist™ and manual cleaning disinfection?

- Manual cleaning can produce inconsistent results because the user can easily miss areas during the clean.
- Completing a disinfection cleaning protocol with SteraMist™ offers greater coverage, in less time
- Superior results with a 99.9999% (six log) reduction and depending on the clean product, a manual clean will only provide a 99.9% or 99.99% (3 or 4 log reduction)

FAQ - Difference of SteraMist™ to Vaporized Hydrogen Peroxide?

- VHP requires all areas to be completely sealed and pretreated to specific humidity and temperature ranges. These products can be highly corrosive and leave residues that affect materials compatibility.
- SteraMist™ is much more flexible (Surface Unit does not require HVAC turned off)
- Non-hazardous to ship and store, and demonstrates superior compatibility with electronics since there is no need to wipe, and no residue is left behind

FAQ – Is SteraMist™ safe for electronics?

- Yes, SteraMist™ is ideal for electronics. The iHP™ process provides a dry mist/fog and a short contact time, leaving no residue
- SteraMist™ can quickly and easily treat electronics including delicate medical and scientific equipment

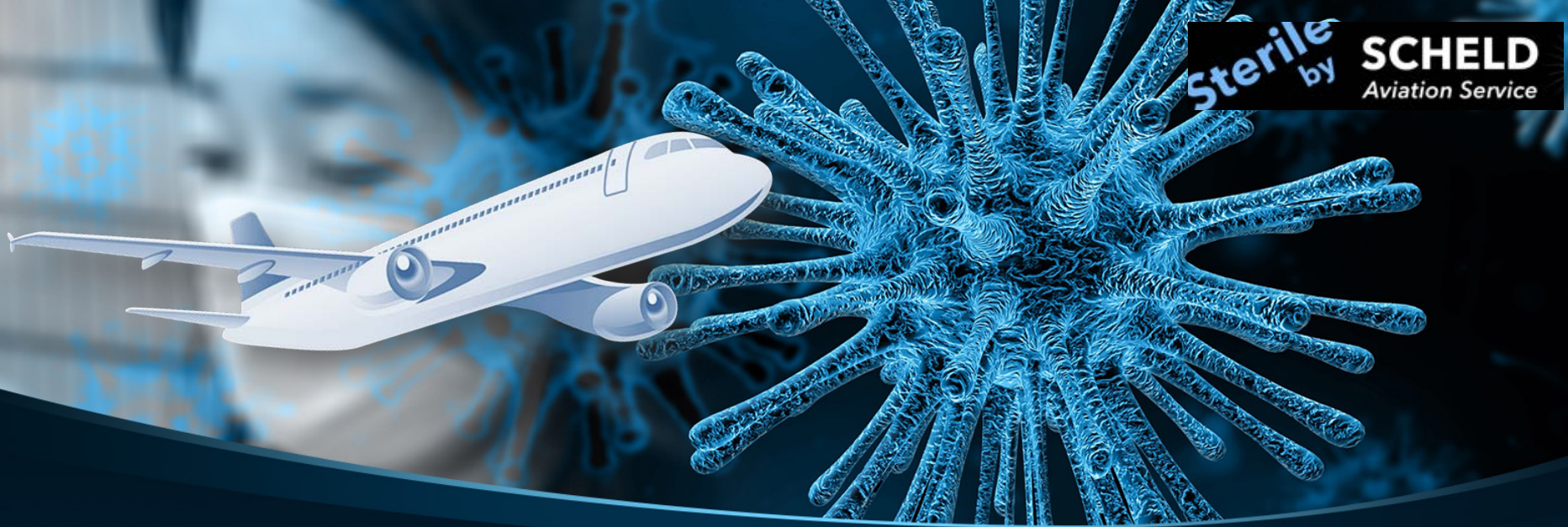
Media Response about SteraMist

Media Responses about SteraMist - Overview

- Media responses @: www.scheld-aviation.com
- Latest from SteraMist™ the system we use:
 - https://www.cleanroomtechnology.com/news/article_page/Halden_Shane_TOMI_Environmental_Solutions/164743
 - <https://yorkshiretimes.co.uk/article/York-Cleaning-Company-Invests-80000-In-New-Equipment-From-The-US>

We hope we can support you fighting against
the the spread of COVID-19 and any other
communicable diseases.

THANK YOU



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