

air**scrubber**^{PLUS}[®]

WITH CERTIFIED SPACE TECHNOLOGY™



DID YOU
KNOW:
80 % of **GERMS**
BACTERIA
& **VIRUSES**
are transmitted by the surfaces
we touch

webmd.com



www.AirScrubberPlus.com

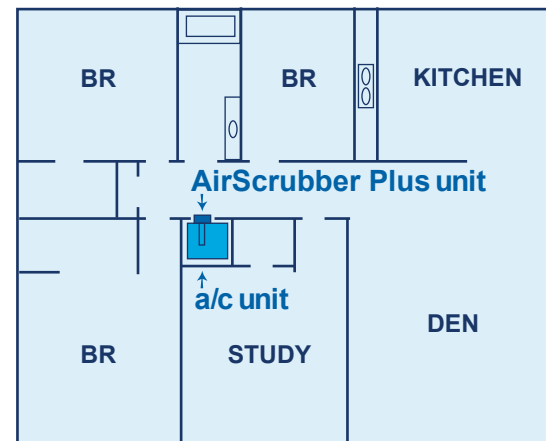
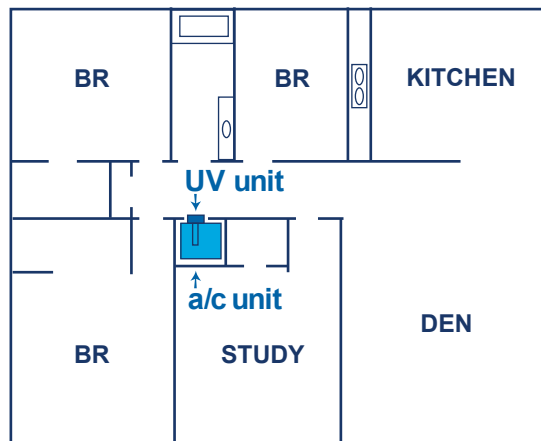
Technology Comparison

You may have already heard of other types of clean air technology, however we'd like to show you a quick comparison of systems.

UV Bulb Comparison

STRUCTURE USING
"Germicidal UV" bulb

STRUCTURE USING
"Air Scrubber Plus®"



UV BULBS

AIR SCRUBBER PLUS®

TECHNOLOGY COMPARISON

	Using UV Bulb	Using AirScrubber PLUS®
Control Space	0.95 ft ³	16,000 ft ³
Microbe Reduction (Entire Structure)	No	Yes
Particulate reduction (Entire Structure)	No	Yes
Odor reduction (Entire Structure)	No	Yes

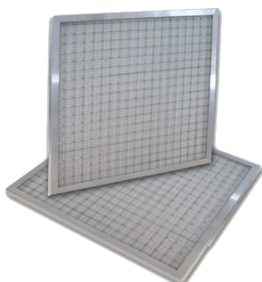
Passive Technology Comparison

The idea behind passive technology is to systematically circulate the air in the home through a filtration system. However, this system fails to clean surfaces, especially those that have been touched. With the Air Scrubber Plus® the air as well as all surfaces in the structure receive cleaning.

Question:

Can an **Electrostatic Filter** suck bacteria from...

- ...a door knob?
- ...a countertop?
- ...any surface?



Clean Environment Technologies

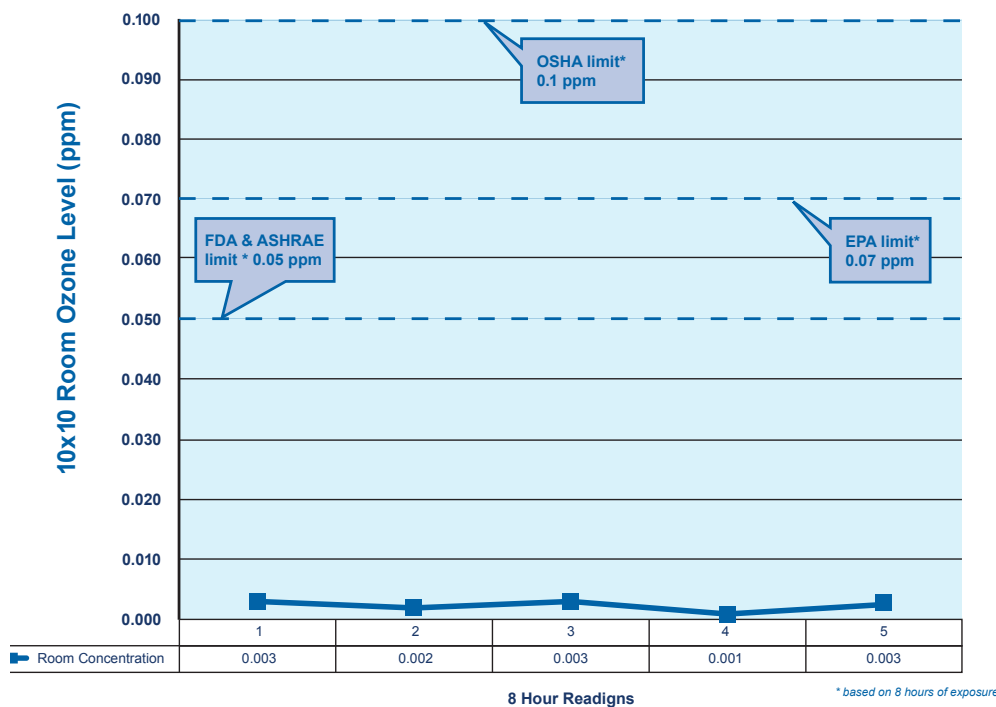
The Environmental Protection Agency ranks indoor air pollution among the top five environmental health risks and states “The best way to address this risk is to control or eliminate the sources of pollution...”. Working to reduce or eliminate pollution at its source is the foundation of the Air Scrubber’s air purification line. We provide environmental conditioning products that actively work out in the environment, taking the solution to the source, where it’s needed most. Air Scrubber Plus® products utilize three innovative, active technologies to clean and disinfect the air of homes and offices: ActivePure Technology, ozone and ionization.

ActivePure Technology

The ActivePure process involves a target surface; in this case a honeycomb cell coated with our proprietary formulation of non-nano titanium dioxide and several transition elements. A broad spectrum UV light source of 185-400 nm is located adjacent to the “target” cell. Oxygen and water molecules in the air react with the UV and coated cell to produce superoxide ions, hydroxyls and Hydrogen peroxide. Hydroxyls, peroxide and even ozone are among the strongest oxidizers known.



Installed Air Scrubber Plus® O³ Concentration in Application



Ozone

Ozone is in the air we breathe every day. Globally, ozone has a long history as a disinfectant. We use it in America to purify our municipal drinking water, swimming pools and spas. Ozone is widely used in the heating, ventilation, and air conditioning industry (HVAC) for disinfection. It has been successfully used for many years in homes or office areas to destroy mold, mildew, fungi and smoke odors. Air Scrubber Plus® products, which have been designed to create ozone, are safe when installed and used properly. Induct units provide control of many odors and microorganisms while maintaining levels well below the US EPA exposure limits.

Ionization

Ions do not form on their own, but are created by the effect of energy. Energy sources that create ions are the sun’s radioactivity, electricity, or friction. Negative ions are generally produced in large numbers in situations where water evaporates. After a rainstorm, the air will typically be rich in negative ions. This is nature’s way of cleaning the air. Air Scrubber Plus® products emulate nature by cleaning the air with negative ions created electrically and/or through friction.

California Environmental Protection Agency Air Resources Board

Air Scrubber Plus, model A1013C, has been tested and certified to comply with the California Air Resources Board requirements. ARB certification number is 1853.

Hospital Test Data

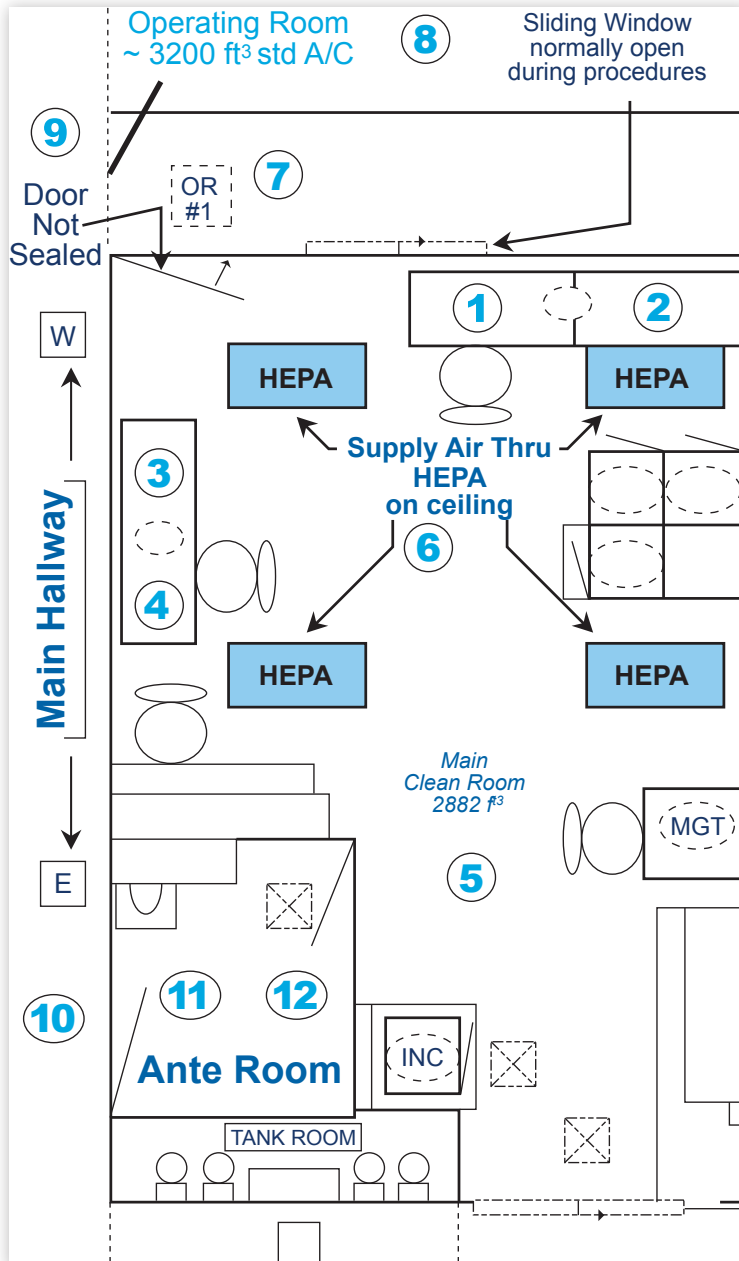
Test data from an Invitro Fertilization Lab in a Large Midwestern Hospital Clean Room in USA.

Air Quality Survey

Test data as received from:

OB/GYN-IVF Lab

June 8, 2006



Loc	Class	Before/m3	After/m3	Imp %
01	5	1391.4	77.7	94%
02	5	692.2	21.1	97%
03	5	621.5	7.1	99%
04	5	374.3	7.1	98%
05	6	11,569.1	2,366.1	80%
06	6	22,236.5	332.0	99%
07	7	337,161.9	165,484.6	51%
08	7	249,121.4	153,887.2	38%
09	8	1,614,245.0	334,401.6	79%
10	8	1,304,842.0	373,078.3	71%
11	7	247,614.7	53,614.7	78%
12	7	203,518.4	50,302.2	75%

All particle counts were taken in accordance with ISO 14644-1 standards.

Microbial Colonies

Before and After installation of:

airscrubber PLUS®

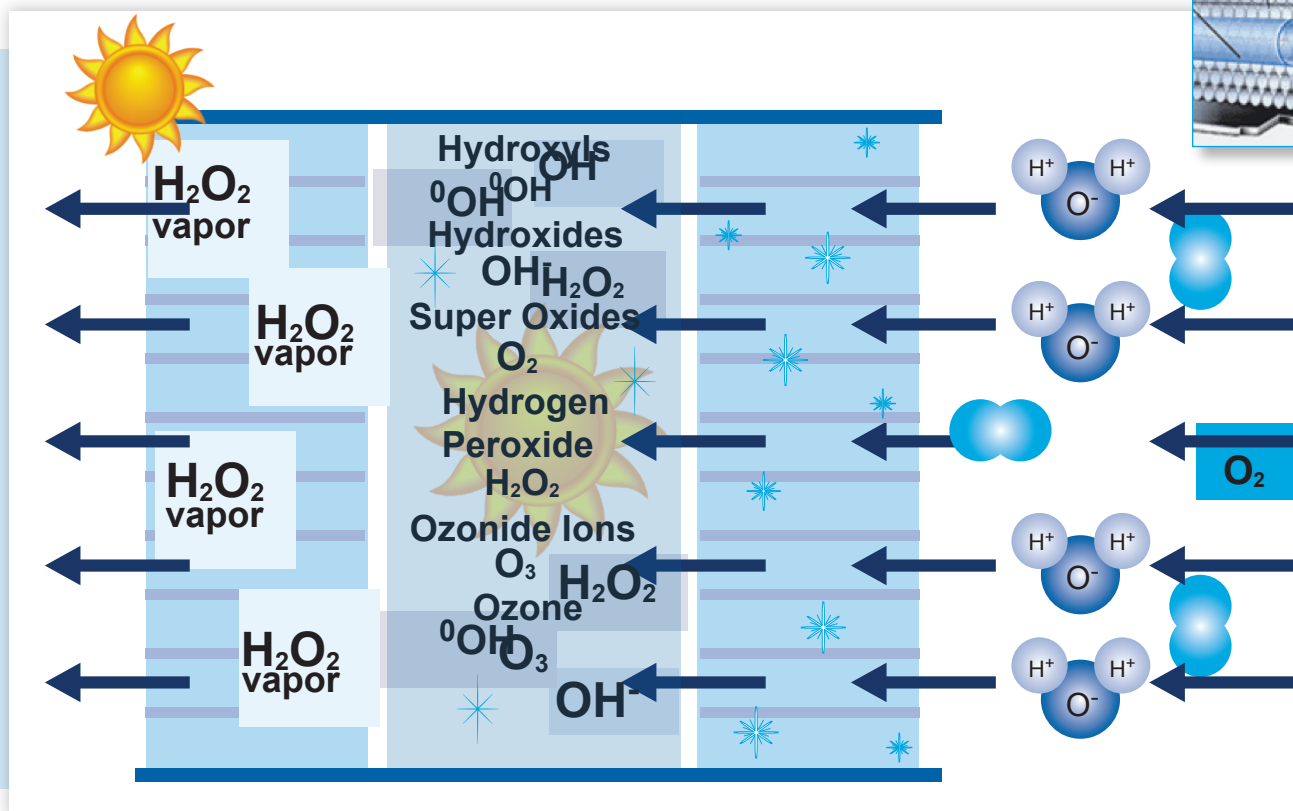
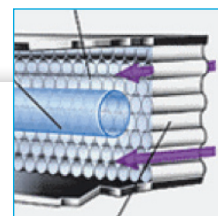
WITH CERTIFIED SPACE TECHNOLOGY™

#	LOCATION	BEFORE	AFTER
1-2	<i>Horizontal Flow Clean Bench</i>	0	0
3-4	<i>Horizontal Flow Clean Bench</i>	0	0
5-6	<i>Main Clean Room</i>	14	0
7-8	<i>Operating Room</i>	9	0
9-10	<i>Hallway</i>	27	8
11-12	<i>Ante Room</i>	23	15

Research Based upon:

- Particulate count/m3 measured @ 0.5 um • Typical office 2-3 million/m3 @ 0.5um
- Before and After Data using: Two 9" Air Scrubber Plus® units in A/C ducts.

Photocatalytic Process



Provides 24hr a Day Treatment

Kills germs on surfaces like doorknobs, toilets, kitchen counters and in pet areas.
Air Scrubber Plus® can tackle odors caused by Smoke, Pets and Food.



Reduce Everyday Odors

Home Improvement Odors

- Construction Projects
- Paint
- Glue
- Plywood
- New Carpet
- Chemicals



Active Pure Technology

Scientifically Tested



Tested by the most highly respected labs in this industry.

Kansas State University

Dr. James Marsden

Regents Distinguished Professor
Microbial Reduction on Surfaces
(Mold, Bacteria & Virus)

University of Cincinnati

Dr. Sergey Grinshpun

Department Head,
Center for Health-Related Aerosol Studies,
Department of Environmental Health
Reduction of the Aerosol Particle
Concentration Airborne Microbial Reduction (Virus)

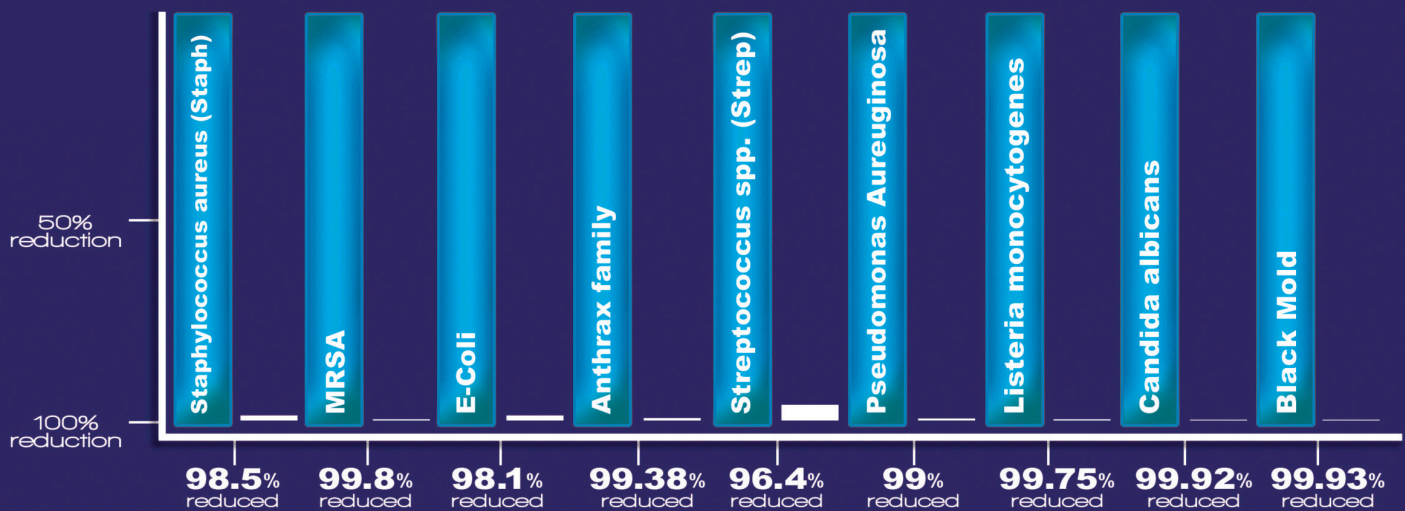
REDUCES APPROXIMATELY **90%** OF AIRBORNE MICRO ORGANISMS.

Kansas State University Testing

Ability of Unique Photocatalytic Device to Reduce Microbial Populations on Surfaces in 24 hours.

Up to 99% Reduction of Surface Micro-Organisms

As tested by Kansas State University¹



Air Scrubber Plus® technology has been studied in controlled university testing for reduction of particulate in the air and contaminants on surfaces. Help protect your home and family against dust, allergens, mildew, smoke, odors, and odor-causing bacteria easily and conveniently with Air Scrubber Plus® technology

¹Testing on behalf of activTek Environmental by Dr. James Marsden, at Kansas State University was conducted to determine the effectiveness of ActivePure® (RCI) Technology for the inactivation of Staph (Staphylococcus aureus), MRSA (Antibiotic Resistant Staph), E. coli (Escherichia coli), Bacillus spp., Streptococcus spp., Pseudomonas aeruginosa, Listeria monocytogenes, Candida albicans, and black mold on stainless steel surfaces at various contact times in a controlled airflow cabinet. Further testing was conducted for activTek Environmental at the University of Cincinnati Center for Health-Related Aerosol Studies to investigate the novel air purification technique combining aerosol/bioaerosol control mechanisms of unipolar ion emission and photocatalytic oxidation promoted by the ActivePure® (RCI) technique.

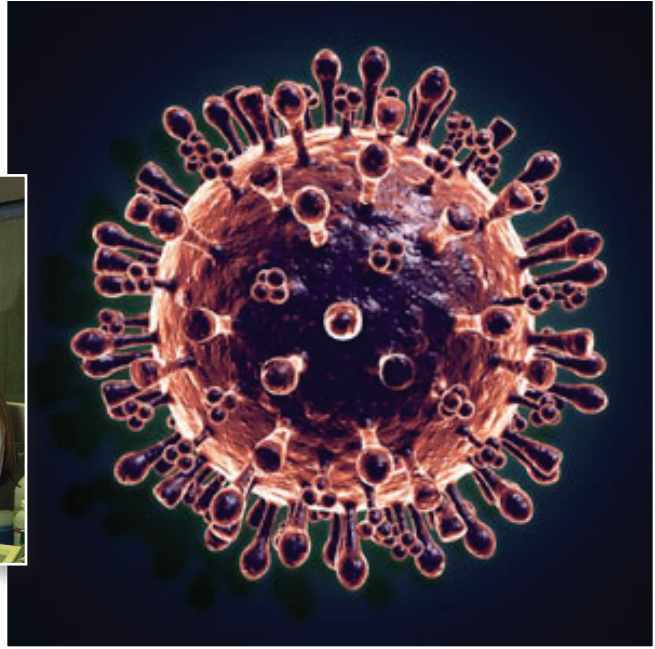
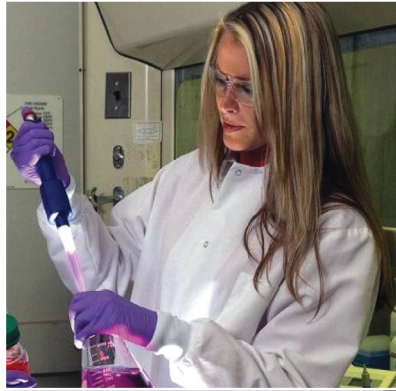
Avian Flu Testing

Tested by the most highly respected labs in the industry.

Sandia National Laboratory

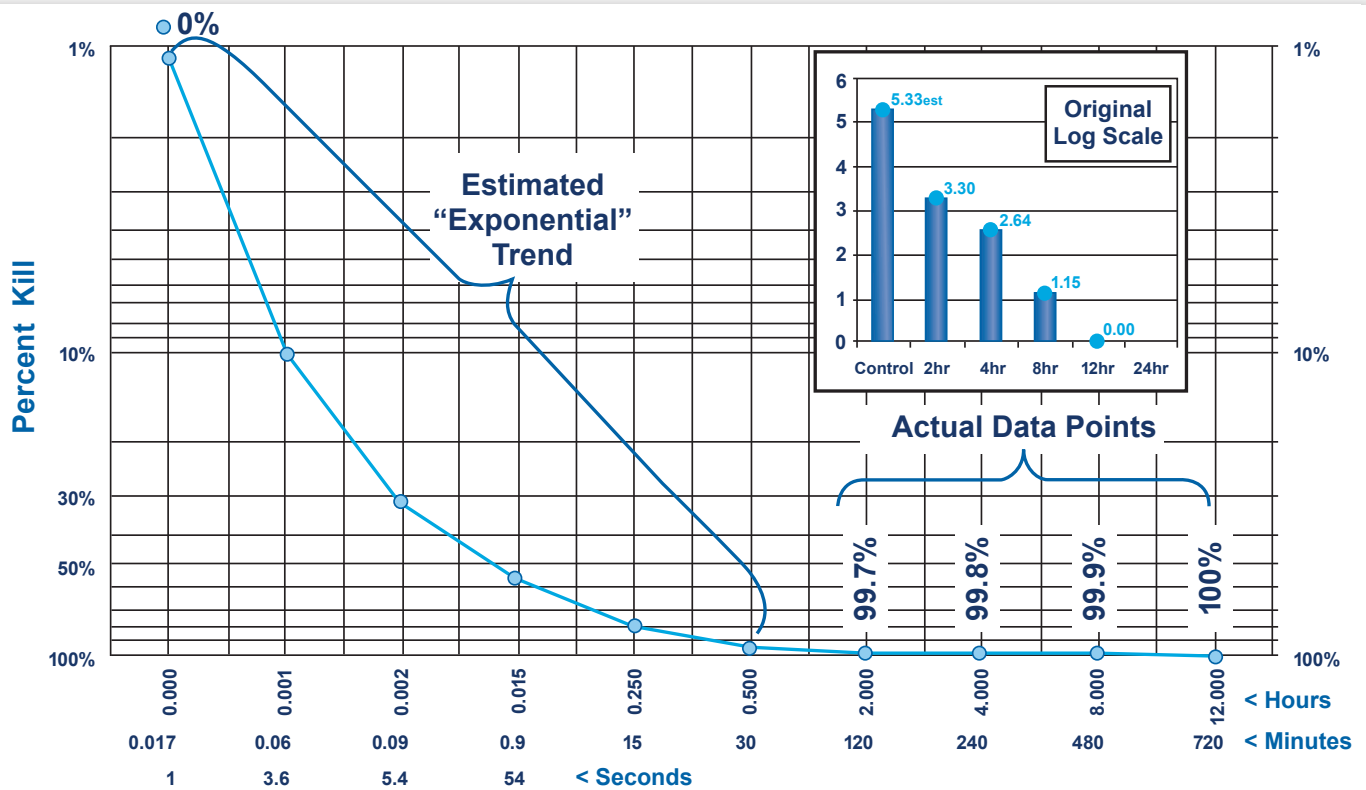
Dr. Jill Bieker

Spring 2006



KSU Avian Flu (H5N8 Summary)

Stainless Steel Coupon - Percent Kill on Surfaces - After Exposure to RCI Technology
Dr. James Marsden - Kansas State University 2006



Preliminary Results

CERTIFIED SPACE TECHNOLOGY



Air Scrubber Plus air purification products use a variation of technology originally developed in cooperation with NASA for use on the International Space Station.

The Certified Space Technology logo is licensed to activTek by the Space Foundation for use on Air Scrubber Plus purification products. The Space Foundation recognizes products whose origins come directly from technology or resources derived from the space program.



 **Enviro
Professionals**

SHOWCASING AIR SCRUBBER PLUS®

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