

# air<sup>+</sup>scrubber<sup>®</sup>

PLUS<sup>®</sup>

WITH CERTIFIED SPACE TECHNOLOGY™



DID YOU  
**KNOW:**

**80** % of **GERMS  
BACTERIA  
& VIRUSES**  
are transmitted by the surfaces  
we touch

webmd.com



[www.AirScrubberPlus.com](http://www.AirScrubberPlus.com)

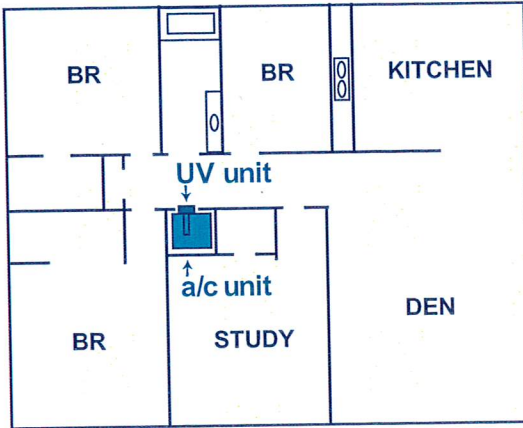


# Technology Comparison

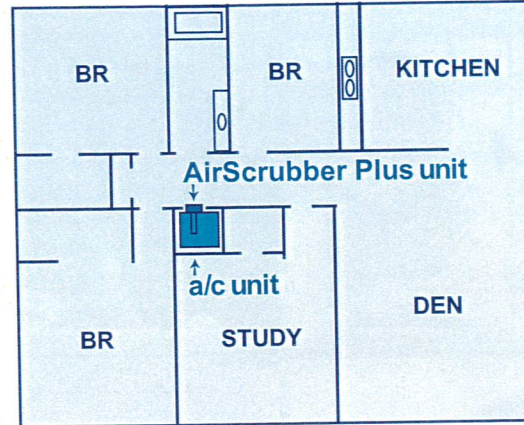
You may have already heard of other types of clean air technology, however we'd like to show you a quick comparison of systems.

## 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®
<b>Control Space</b>	0.95 ft <sup>3</sup>	16,000 ft <sup>3</sup>
<b>Microbe Reduction</b> (Entire Structure)	No	Yes
<b>Particulate reduction</b> (Entire Structure)	No	Yes
<b>Odor reduction</b> (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.



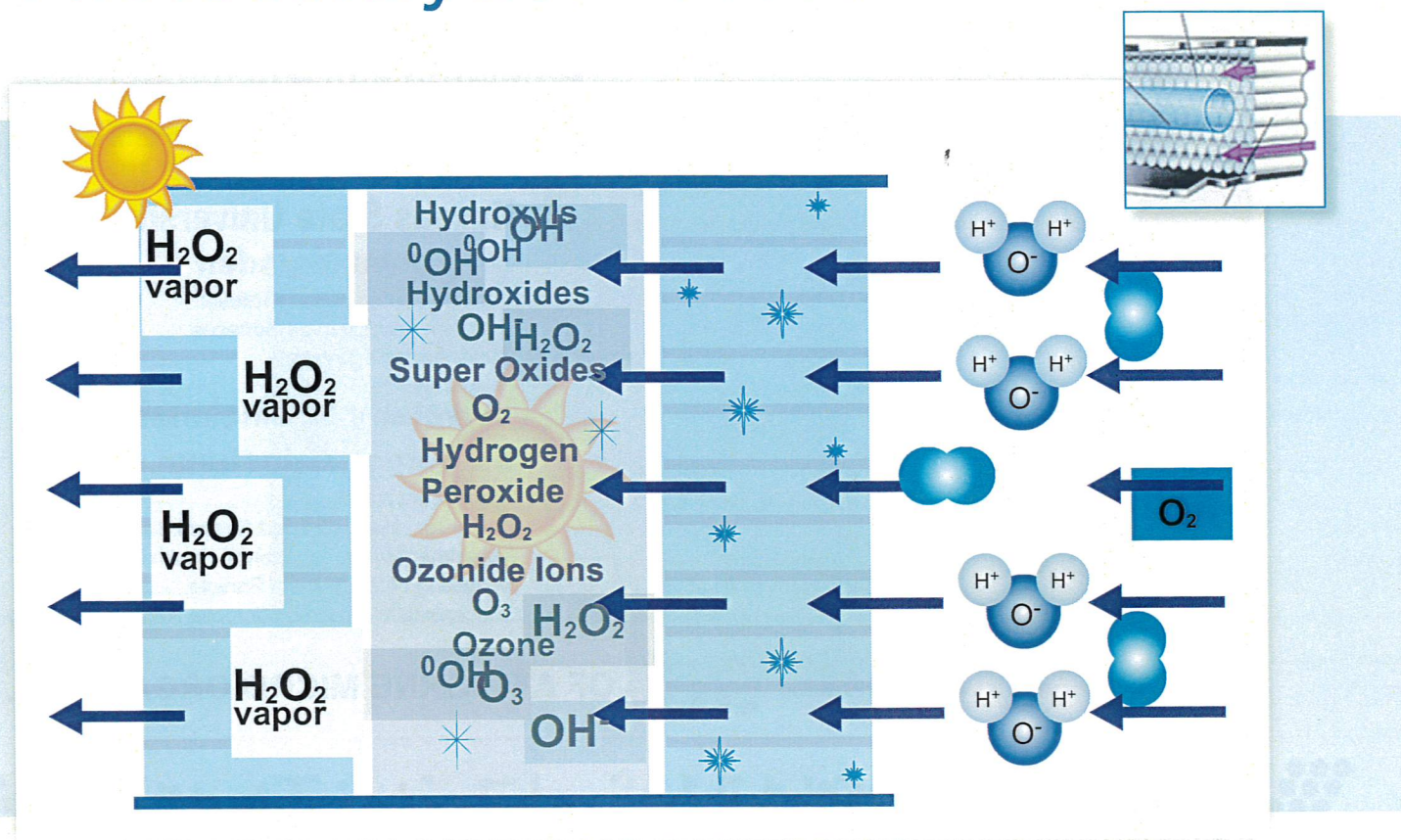
### Question:

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

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



# 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

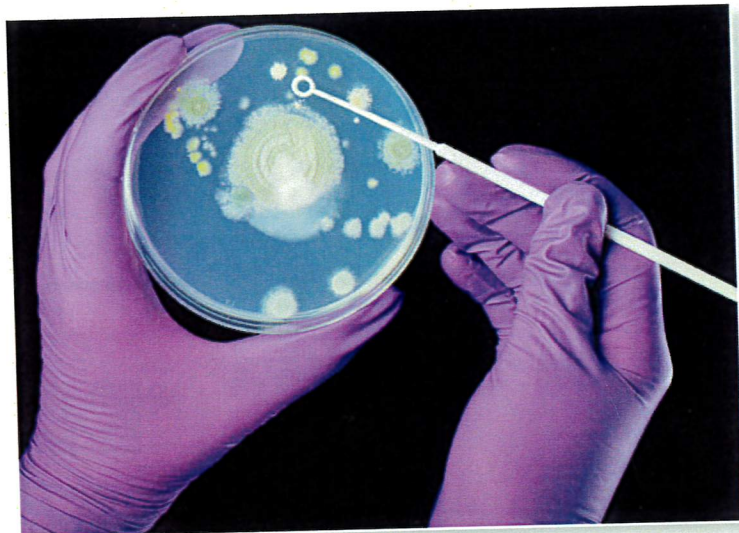
### Home Improvement Odors

- 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 University<sup>1</sup>



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

<sup>1</sup>Testing 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.

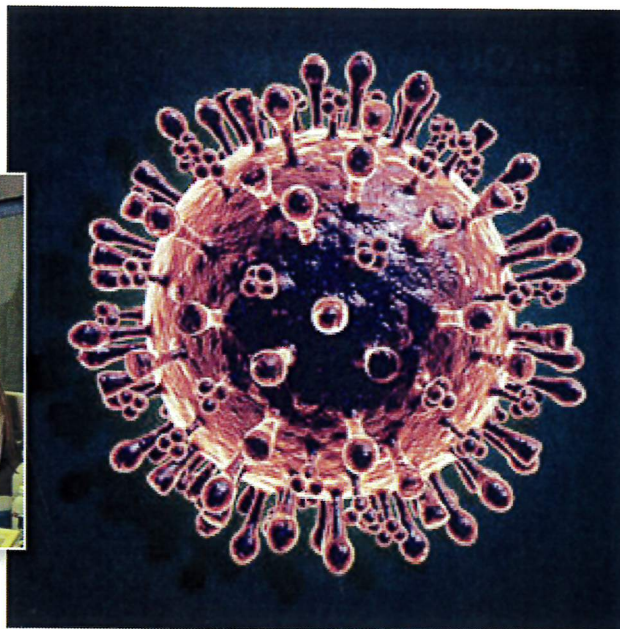
# Avian Flu Testing

Tested by the most highly respected labs in the industry.

**Sandia National Laboratory**

**Dr. Jill Bieker**

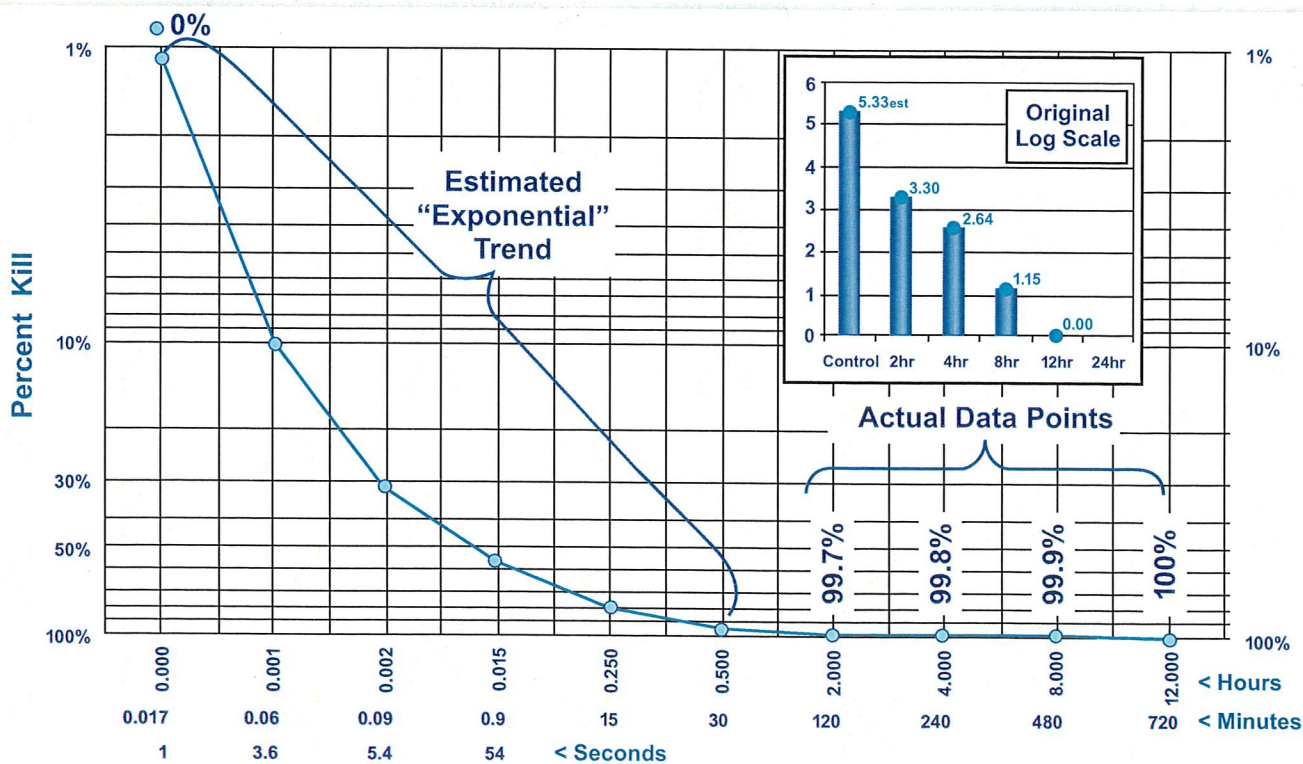
Spring 2006



## 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

# Hospital Test Data

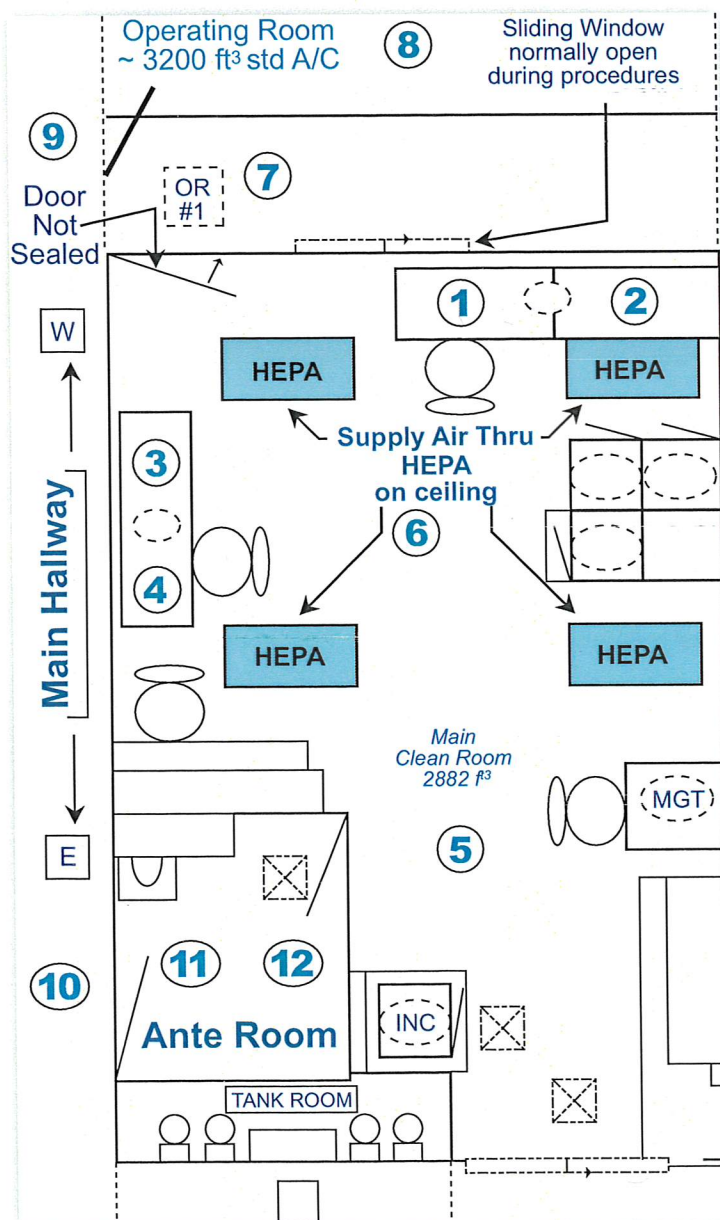
Test data from an In Vitro Fertilization Lab in a Large Midwestern Hospital Clean Room in USA.

## 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:

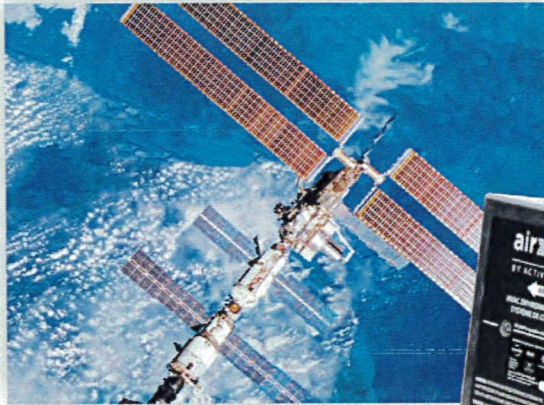
**air scrubber PLUS<sup>®</sup>**  
WITH CERTIFIED SPACE TECHNOLOGY™

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

## Research Based upon:

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

## 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®

[www.AirScrubberPlus.com](http://www.AirScrubberPlus.com)

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