

The **INDUCT** units by **activTek** are designed to help eliminate sick building syndrome by reducing pollutants, **VOC's, smoke, mold, and bacteria.** Sick Building Syndrome is a commonly used term used to describe situations in which building occupants experience acute health and discomfort effects that seem to be linked to time spent in a building. These complaints may be localized in a particular room, or it can also be a widespread problem throughout an entire building or structure.

The **INDUCT** products are installed in the ducts of an HVAC system where most sick building syndrome problems start to occur. Combining high intensity **UVX** light with a specially developed rare metal hydrophilic coating on an engineered matrix, the **ActivePure RCI Cell (Radiant Catalytic Ionization)** reduces airborne and surface contaminants and odors while creating superoxide ions and hydroperoxides. These products of our **Advanced Oxidation Process** continue working to reduce more odors and **VOC's** and to attack microorganisms.



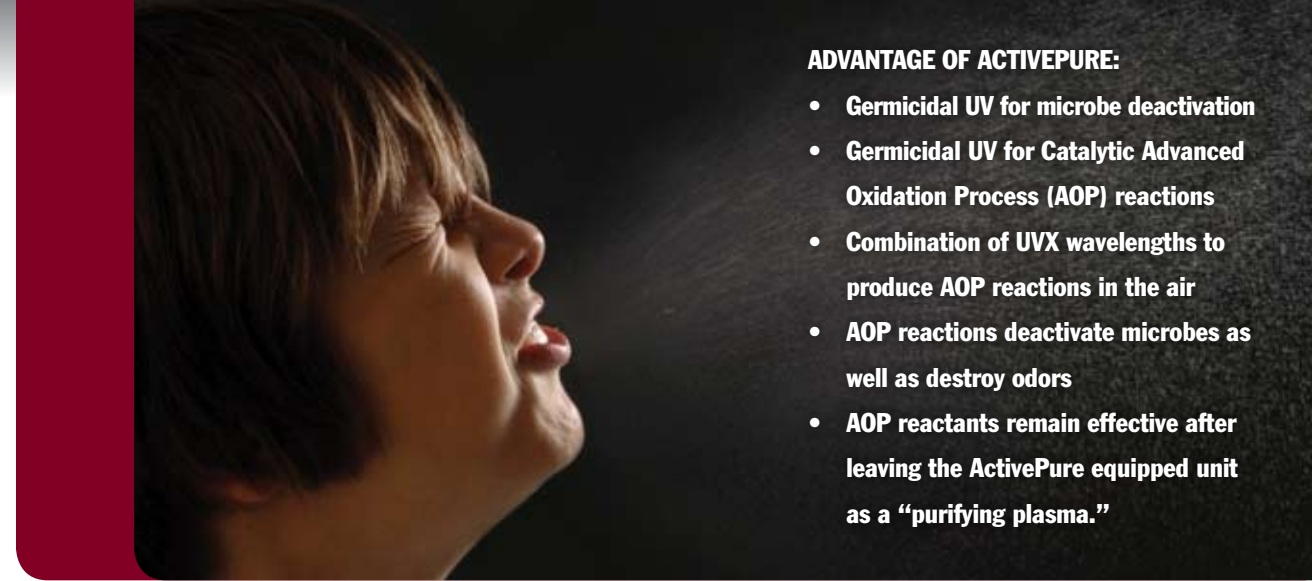
TEST STUDIES

Peer reviewed and published testing from two universities proving the ability to reduce up to 99.99% of Mold, Fungi, Bacteria, and Viruses, including MRSA and Avian Bird Flu on surfaces
 — Kansas State University:
 — University of Cincinnati

COMPELLING STATISTICS:

— More than 90,000 life-threatening illnesses and nearly 19,000 deaths are estimated to occur annually after an MRSA infection*
 — ActivePure (RCI) Reduced 99.8% of MRSA in 24 hours.

* U.S. Centers for Disease Control and Prevention



ADVANTAGE OF ACTIVEPURE:

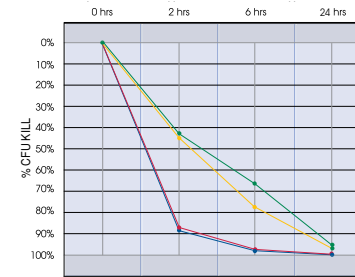
- **Germicidal UV for microbe deactivation**
- **Germicidal UV for Catalytic Advanced Oxidation Process (AOP) reactions**
- **Combination of UVX wavelengths to produce AOP reactions in the air**
- **AOP reactions deactivate microbes as well as destroy odors**
- **AOP reactants remain effective after leaving the ActivePure equipped unit as a “purifying plasma.”**

UVX LIGHT AND THE SUN

By engineering the proper light wavelengths into the **ActivePure (RCI) Cell**, **activTek** offers a highly effective system designed to utilize 254nm hv germicidal UV light. Falling between visible UV light and invisible X-Rays in the light spectrum, **UVX** makes use of the same oxidation and ionizing properties of light as naturally occurring sunlight.

The **ActivePure** process takes advantage of these germicidal and ionizing properties, and combines them with the photocatalytic reactions of specific rare and noble metals to create **Radiant Catalytic Ionization**.

COMPARING THE EFFECTS OF ACTIVEPURE (RCI) TECHNOLOGY AND OZONE TECHNOLOGY



“ActivePure & O³ Compared” Vs % Microbe Reduction
 03 Exposure Hrs @ 0.02 ppm for ActivePure and 0.05 ppm for Ozone only

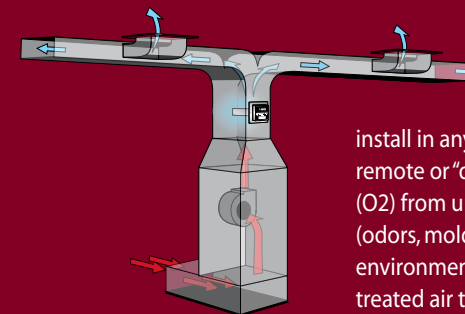
TESTING BY KANSAS UNIVERSITY

- Candida albicans & ActivePure
- Candida albicans & Ozone
- Stachybotrys & ActivePure
- Stachybotrys & Ozone

HOW DO “UV BULBS” COMPARE TO ACTIVEPURE?

Technology Comparison	Using ActivePure RCI	Using UV Bulb
Control Space	16,000 ft ³	0.95 ft ³
Microbe “kill” in entire structure	99.9%	2%
Particulate Control in entire structure	Yes	NO
Odor Control in entire structure	Yes	NO

*Scientific tests have demonstrated the technology in **activTek** air purifiers can substantially reduce microbial populations on **surfaces** – including but not limited to *Escherichia coli*, *Listeria monocytogenes*, *Streptococcus* spp., *Pseudomonas aeruginosa*, *Bacillus* spp., *Staphylococcus aureus*, *Candida albicans*, and *S. chartarum*. These statements have not been evaluated by the FDA. These products are not intended to diagnose, treat, cure, or prevent any disease.



activTek INDUCT units...

install in any HVAC system directly into the plenum or directly above the air handler in remote or “down stream” locations. They work by converting water vapor (H₂O) and oxygen (O₂) from untreated air into Hydro-peroxides and hydroxyls, eliminating various microbes (odors, mold, bacteria, viruses, VOC's, etc.) from the air and creating a healthier indoor environment. Untreated air enters the air handler, passes by the **INDUCT** unit, and releases treated air through the AC vents.

VALIDATION:

- Ionization reduces airborne particles by up to 100 times over natural decay
- ActivePure deactivated approximately 90% of airborne microorganisms in less than 60 minutes
- Dr. Grinshpun concluded the combination of the two technologies provided a more significant reduction of airborne biocontaminants than either of the two technologies working independently. This conclusion validates the synergistic effect of a multiple technology strategy.

Staph: 98.5% reduction
(Staphylococcus aureus)

MRSA: 99.8% reduction
(Methicillin Resistant Staphylococcus aureus)

E. coli: 98.1% reduction
(Escherichia coli)

Anthrax family: 99.38% reduction
(Bacillus spp.)

Strep: 96.4% reduction
(Streptococcus spp.)

Pseudomonas aureuginosa: 99.0% reduction

Listeria monocytogenes: 99.75% reduction

Candida albicans: 99.92% reduction

Black Mold: 99.93% reduction
(Stachybotrys chartarum)

Avian influenza: 99.9% reduction in 2 hours
(H5N8)

APPLICATIONS:

- Any HVAC system with accessible ducts
- Residential Homes
- Apartments
- Offices/Businesses

activTek has various INDUCT units available to accommodate the various size and air flow rates of different HVAC systems.



DESCRIPTION:

- Duct or plenum installed natural air system
- Discreet or concealed installation
- 120/220 volt optional installation
- UV bulb monitoring indicator included
- Low maintenance – no cleaning required
- Ultra low power consumption - 15W

ACTIVEPURE (RCI) CELL REPLACEMENT:

ActivePure RCI cells should be replaced every two years to ensure optimal effectiveness and provide a safety margin for our indoor environment conditioning equipment.

About activTek Environmental:

activTek's mission is to become the total solution provider for all indoor air and water quality problems in commercial buildings and residential new construction.



Our company has been awarded Certified Space Technology status by the NASA affiliated Space Foundation. ActivePure technology is based on NASA research developed for the International Space Station to reduce exposure to harmful contaminants.



ActivePure technology recreates the same natural processes that reduce pollution outside, indoors. Safe, natural purifiers actively seek out pollution and exposure to illness-causing germs on surfaces.



The better way to naturally cleaner air.

activTek's ActivePure technology does not treat or cure people of any disease, nor is it a medical device. It treats the air people breathe, and the environment they live in.

** See your activTek Distributor for complete details.*



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BREATHE EASIER.



The better way to naturally cleaner air.