

F. A. Q. about ACACS:

1. Does American Standard have an Indoor Air Quality solution for Light Commercial and Residential Package Units for factory and retrofit options?

Yes: The American Standard Catalytic Air Cleaning System

Available:

Kits from Genesis Air (IR sourced product provider) for **package** residential units

From Thybar (IR sourced product provider) for **curb mounted light commercial** RTU's

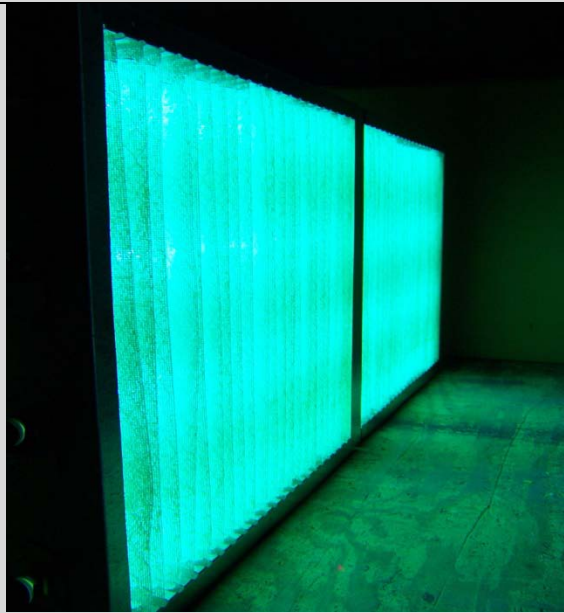


2. How does it work?

Photo Catalytic Oxidation

- The Oxidation of Carbon
- The Reduction of Volatile Organic Compounds
- Degradation of Cellular Structure in Pollen, Mold, Bacteria and Virus

3. Can you describe the features of ACACS?



- Oxidation/Reduction Reaction, not Capture
- Low Static Pressure Drop .05in @ 500fpm
- Energy requirements/ general rule .05 to .1 watts per cfm. (at 500fpm.)
- Ease of installation in new or existing retrofit jobs
- Dual use - effective with both BIO and VOC's
- 15 year Catalyst Life 12,000hr UVGI lamp life.

4. Is ACACS effective in reducing Odors?

Musty smell associated with mold or fungi = Yes

Sewer gas (waste treatment plant & bathroom / locker room) = Yes

Lingering Cooking Odors = Yes

Cigarette Smell = Yes

Cleaning Solvents = Yes

Paint or carpet = Yes

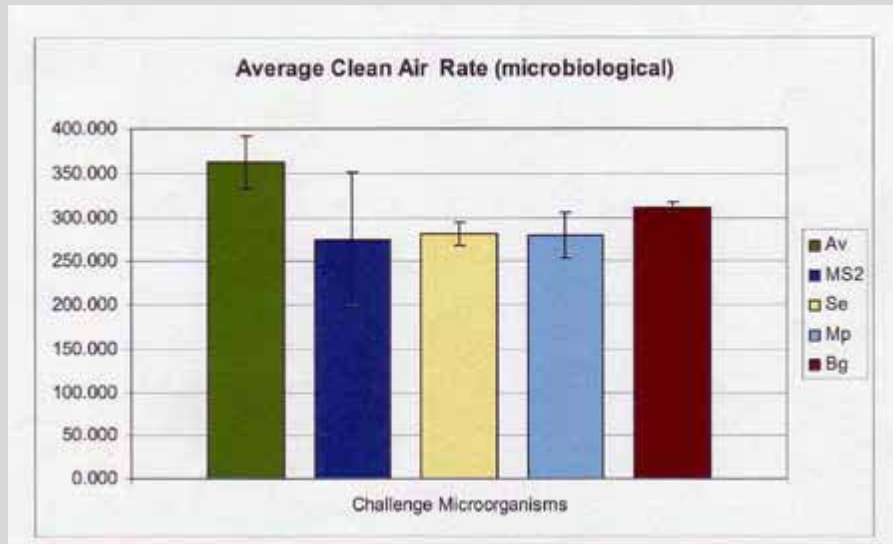
Animals both living in the structure and from outside source (feeds lot) = Yes

Exhaust from cars, trucks, busses, aircraft, generators and helicopters = Yes

Fumes from petrochemical plants = Yes

5. Will ACACS help in reducing chances of getting sick from airborne Viral and Bacterial disease?

Yes, extensive third party testing shows ACACS is effective in removing most of the airborne biological contaminate in a short period of time.



Clean Air Rate Microbiological

Third Party Testing Courtesy of RTI International

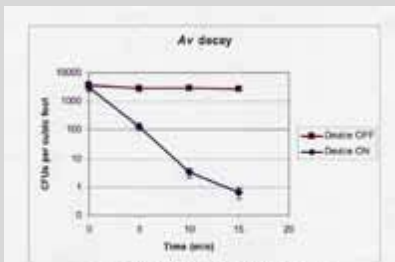


Figure 5. Decay curves for the Av fungal spores

Aspergillus versicolor

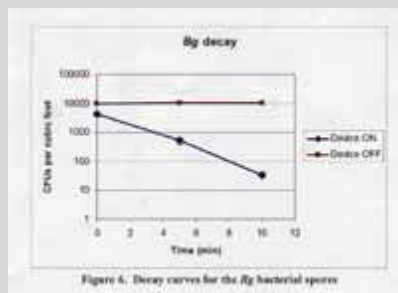


Figure 6. Decay curves for the Bg bacterial spores

Bacillus anthracis

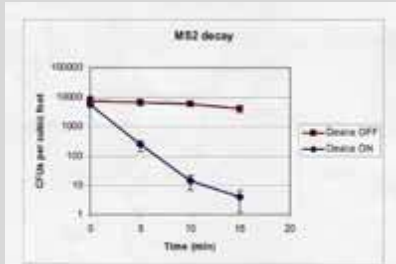


Figure 4. Decay curves for the MS2 virus

E.Coli

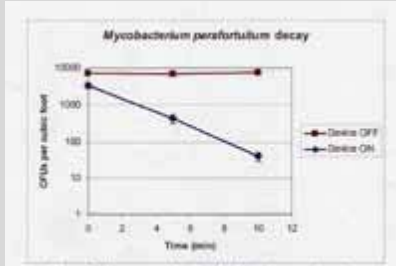


Figure 7. Decay curves for the *Mycobacterium parafortitulum*

Tuberculosis

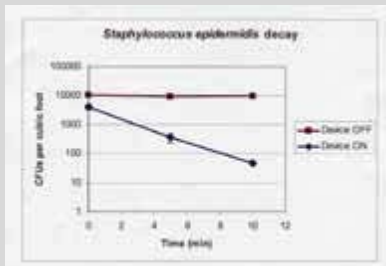


Figure 3. Decay curves for *Staphylococcus epidermidis*

MRSA