

AIR GUARDIAN®

Destroys air pathogens. Safely. Continuously.

PROVEN to kill microbial pathogens, including SARS-CoV-2, in seconds or sub-seconds

(see page 2)

- ✓ ZERO byproducts make it safe for any space
- ✓ Contributes towards **WELL Certification** points
- ✓ FDA Registered Establishment #3017489474

✓ **Qualifies for K-12 ESSER III Federal Funding**

✓ FDA Medical Device Class II Listing #04204917

✓ **FDA** **EPA** **CE** **UL** **ETL** **RoHS** **IoT**



Air Guardian® is the only solution that has adopted ideal airflow induction and venting, while holding air within the device long enough to kill dangerous pathogens.



Patented medical-grade device that continuously pulls air upward and away from room occupants

Purified air is vented downward moving untreated air into fan path for reprocessing

Airflow dynamic produces frequent air changes, compliant with CDC and FDA guidelines

Key Advantages:

- Precision room treatment based on room use, occupancy and social density
- Effective at killing and controlling mold and mildew
- Reduces CO2 levels to improve cognitive function
- Improved Air Quality will reduce sick days
- Mitigates odors
- Minimal annual maintenance
- Machine grade asset with long warranties

The Case for Air Guardian

Advantage	Air Guardian	HVAC Filtration	Bi-Polar Ionization	UVC Box
Customizable	Each space is treated independently	Each space is treated the same	Each space is treated the same	Each space is treated independently
Affordable	LOW maintenance and energy cost	HIGH maintenance and energy cost	LOW maintenance and energy cost	LOW maintenance and energy cost
Safe	Proven safe with ZERO byproducts	Filters kill nothing and are pathogens reservoirs	Proven to produce hazardous byproducts	Some potential for hazardous byproducts
Effective	Whole room testing at 99.99% success	No testing and less than 10% success	Studies are yielding negligible results	Air treatment time is too short for success

AIR GUARDIAN®

Efficacy of Upper-Room UVGI System

Air Guardian® is an FDA registered Medical Device which meets or exceeds all disinfection and purification standards and requirements, including those set by the FDA, EPA, ASHRAE, ETL, ICNIR, and CE.

- ❖ Air Guardian efficacy was tested in a nationally recognized, independent laboratory for its ability to inactivate and remove MS-2 Bacteriophage virus ATCC-1157-B1 as a proxy for SARS-CoV-2 human coronavirus. The testing was performed under whole-room conditions, in conformance with ISO testing standards and procedures. Certified results show that Air Guardian eliminated 99.99% of all viral particles aerosolized into a whole room sealed chamber. Notably, this study was performed without Air Guardian's micron filters; thus, true UV-C and oxidation energies accounted for ALL viral inactivation and destruction. No active viral particles were trapped in filters during the test.
- ❖ In addition, Air Guardian's UV-C LEDs have been tested against SARS-CoV-2 in a BSL-III lab at Korea University and achieved a 4-Log (99.99%) reduction of the SARS-CoV-2 virus.
- ❖ Air Guardian® has been additionally tested and modeled in certified laboratories. Results include dose-time destruction/removal studies of over 80 microbiological species, including gram-positive, gram-negative, vegetative bacteria, mold, fungus, influenza, salmonella, candida, c-diff, and several spore forms, including fungal, yeast, and mold forms.
- ❖ SARS-CoV-2 and MS-2 Bacteriophage (Escherichia coli strain) were completely eradicated (not just filtered) within 1 second under time-dose modeling within the Air Guardian® device.
- ❖ The sealed Air Guardian® is certified by multiple regulatory agencies as safe, emitting no ultraviolet light, oxidizing molecules (ozone), hazardous byproducts, or volatile compounds into room air.

"Not only does the Air Guardian Product Line present an immediate answer to the current pandemic our students and faculty face, but we have also future proofed our ceilings in our yearly fight against Influenza. Safe student attendance is our main priority and with this installation we have provided a long-term battle plan that can face the unforeseen future of viruses."



Ricky Shelton

Energy Manager, Barbers Hill ISD
Vice President, TEMA
(Texas Energy Managers Association)



Proven Pathogenic Destruction

The following list of microbes and pathogens are killed **in less than one second** within the Air Guardian® device:

VIRUS

SARS-CoV-2 and All Variants

Influenza viruses
Norovirus
Feline calicivirus (FCV)
Rhinoviruses
Severe Acute Respiratory Syndrome (SARS)
Middle East Respiratory Syndrome (MERS)
Measles
Infectious Hepatitis
Poliovirus – Poliomyelitis
Adenoviruses
Bacteriophage (MS2)
Enteroviruses
Rotavirus
Tobacco mosaic

MOLD

Aspergillus
Aspergillus flavus
Aspergillus glaucus

Mold continued

Aspergillus niger
Gram-Negative staphylococcus
Gram-Positive staphylococcus
Legionella
Mucor racemosus A
Mucor racemosus B
Oospora lactis
Penicillium
Penicillium expansum
Penicillium roqueforti
Rhizopus

YEAST

Blastomyces
Candida albicans
Candida Auris
Coccidioides
Cryptococcus gattii
Cryptococcus neoformans

BACTERIA

Acinetobacter baumannii
Bacillus anthracis (Anthrax)
Bacillus magisterium sp. (spores)
Bacillus magisterium sp. (veg.)
Bacillus paratyphus
Bacillus subtilis
Bacillus subtilis spores
Clostridium difficile
Corynebacterium diphtheriae
Ebertelia typhosa
Escherichia coli
Leptospiracanicola (Infectious Jaundice)
Micrococcus candidus
Micrococcus sphaeroides
Mycobacterium tuberculosis
Neisseria catarrhalis
Phytomonas tumefaciens
Proteus Vulgaris
Pseudomonas aeruginosa
Pseudomonas fluorescens

Salmonella enteritidis
Salmonella paratyphi (Enteric Fever)
Salmonella typhimurium
Salmonella typhosa (Typhoid Fever)
Sarcina lutea
Serratia marcescens
Shigella dysenteriae (Dysentery)
Shigella flexneri (Dysentery)
Shigella paradysenteriae
Spirillum rubrum
Staphylococcus albus
Staphylococcus aureus
Staphylococcus hemolyticus
Staphylococcus lactis
Stenotrophomonas maltophilia
Streptococcus pneumoniae
Streptococcus viridans
Typhimurium
Vibrio comma (Cholera)
Vibrio spp.
Vibrio vulnificus

Notable partners

