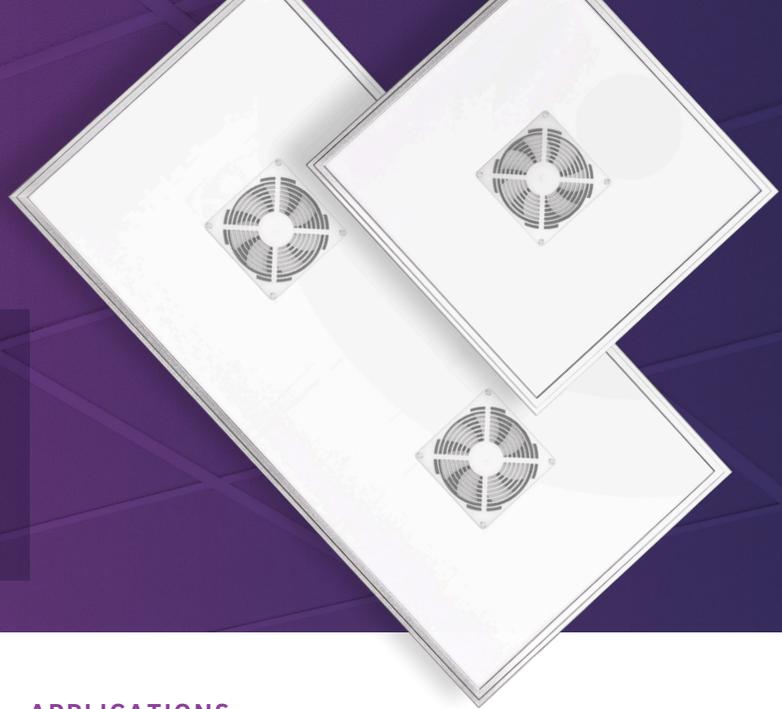


# Air Guardian

## Enclosed Air Disinfection and Purification Device

An FDA registered device that safely and rapidly disinfects and purifies room air. Air Guardian® removes microbial pathogens, including SARS-CoV-2, the virus that causes COVID-19. Air Guardian's unique multi-mode process also removes hazardous particles and pollutants so effectively that pure, clean, safe air is constantly released into the room.



### FEATURES

- Multiple modes of disinfection and air purification in a single device
- Air Guardian® can remove harmful pathogens from the air without the need for 0.3 or 0.1 micron filters - through intense UV and oxidation processes. Other systems rely on HEPA or MERV filtration as a primary means of removal, without pathogen destruction.
- Air Guardian® includes both an activated charcoal and may be used with either a HEPA or Micron filter for an additional layer of safety.
- Purified air is vented at least three feet away from the induction fan, and vents can be placed where optimal protective airflow is created based on each individual space
- Third party testing has certified that Air Guardian® emits no ozone or volatile compounds as a result of the disinfection and purification methods within the device.
- Third party lab and clinical models demonstrate 4 Log pathogen reductions in whole-room testing and 6 Log reductions in single pass results for all tested organisms, including RNA and DNA viral species, spores, vegetative bacteria, bacteria with ARG mutations, and fungal forms.
- Computational fluid dynamic (CFD) tests have validated air residency times within the device as 6.8 seconds for the 2 x 4 model and 23.2 seconds for the 2 x 2 model
- Air Guardian® requires minimal maintenance. LED lights have a rated 30,000 lifespan with no degradation or wavelength shift. Filter changes, when recommended, can be performed in minutes, and costs between four and ten dollars USD.

### WARRANTY

Ultraviolet energy: UV-A & UV-C LED diodes: 30,000 hours

UV-C wavelength specificity warranted at 265 nm for 30,000 hours

Fans: 5 years LED driver: 5 years

Chamber Housing: 25 years

### APPLICATIONS

- Retail
- Office
- Commercial
- Food production and storage
- Grow facilities
- Correctional facilities
- Municipalities
- Schools and universities
- Multi-unit housing
- Residential
- Athletic/exercise facilities
- Healthcare, including ambulatory surgery
- Assisted living and retirement centers
- Dental offices
- Dialysis clinics
- Hospitals
- Long term care facilities
- Medical offices
- Nursing homes
- Urgent care centers
- Veterans' facilities

### CERTIFICATIONS

- CE, ETL, RoHS
- Compliant with standards and all safety requirements from the International Commission on Non-Ionizing Radiation (ICNIRP)
- Aligned with CDC and NIOSH recommendations for optimal airflow, pathogen removal mechanisms (UV-C) and layered safety strategies
- Air Guardian® UVGI technology is recommended by ASHRAE as a high priority application for disinfection and infection prevention
- Aligned with REHVA recommendations for improving ventilation, reducing crosscontamination, and optimal airflow
- Patent pending •
- FDA Facility #10077990
- EPA Establishment # 98105-TX-1
- FDA Medical Device Classification Device Class 1 Listing #0420497



## DEVICES

Air Guardian® 2x2 and 2x4 devices can be installed in plenum spaces or on ceiling surfaces. A portable device is also available (see separate spec sheet) which provides protective, disinfected and purified airflow, in a moment's notice, anywhere it may be needed.

|                                 | 2x2       | 2x4       |
|---------------------------------|-----------|-----------|
| CFM fan speed (variable)        | 50-200    | 75-300    |
| Number of exhaust vents         | 2         | 2         |
| Number of induction centers     | 1         | 2         |
| Weight (lbs.)                   | 10.65     | 24        |
| Amps (10%)                      | 0.75      | 1.5       |
| Wattage                         | 38        | 80        |
| Decibels                        | 33        | 41        |
| Chamber total square feet       | 19        | 63        |
| Chamber total linear feet       | 18        | 28.7      |
| Chamber total Square inches     | 2750      | 9000      |
| UV-C Wavelength                 | 265nm     | 265 nm    |
| Photocatalyst, powder coat      | TiO2      | TiO2      |
| Surface Reflectivity            | 89%       | 89%       |
| Activated carbon filters        | 1         | 2         |
| Optional HEPA or Micron filters | 1         | 2         |
| Voltage                         | 122 - 277 | 122 - 277 |

## EFFICACY

It has been proven that the sum of the Air Guardian® applied science mechanisms and design elements kill, inactivate, or destroy microbial pathogens within seconds or sub-seconds while resident within the cubic volume of air which passes through the proprietary internal structures of the device.

These elements include intense UV energy and continuous photo-catalyzed oxidation. The high UV kill-curve in single-pass Log reductions is a result of dose energy over time, rather than distance traveled within the chambers.

The proprietary CFD design elements within the chamber increase the time under dose, where the dose is between 55,240 - 210,000 millijoules of precision wavelength irradiation.



*The primary source to your overall  
disinfection strategy*

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