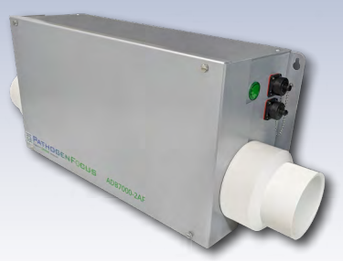
PATHOGENFOCUS

Air Disinfection Biosecurity Technology

What is ADB?

- Continuous and ubiquitous air and surface disinfection
- Fast, safe, effective mitigation of viruses, bacteria, mold, spores, and some VOCs
- Improve indoor air quality and reduce bioburden
- Proprietary Modulated Dielectric Barrier Discharge non-thermal (cold) plasma technology
- Versatile technology with numerous benefits for a wide range of applications



Rapid, constant antimicrobial technology

No harmful UV, ozone, or VOC byproducts

Disinfection for both air AND surfaces

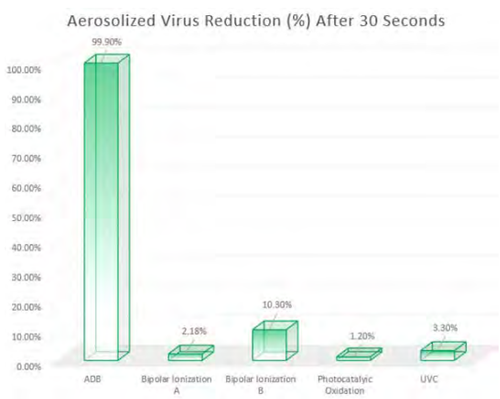
Requires no chemicals, leaves behind no residue

How effective is it?

99.9%
Airborne viruses inactivated in 30 seconds

1 Minute
Airborne viruses virtually undetectable

Perfectly safe for occupied spaces



ADB technology works incredibly rapidly at mitigating viruses and bacteria. ADB was tested in an independent third-party laboratory with several other pathogen elimination products, and ADB drastically outperformed them all.

Against airborne viruses in one minute:

- ADB achieved a 7.74 log reduction (99.99998 percent)
- Two seperate bipolar ionization units achieved 4.90909 percent and 23.94 percent, respectively
- Photocatalytic oxidation achieved a 11.54555 percent reduction
- UVC achieved a 6.96909 percent reduction

ADB had similar success against surface viruses, as well as aerosolized and surface bacteria.

How does it work?

1. Ambient air is captured and exposed to high frequency controlled electrical pulses within the system's chamber
2. This creates cold plasma in the unit's chamber
3. Highly reactive molecules are then dispersed through the air via the existing HVAC system or wall-mounted/portable unit
4. The reactive particles contact air and surface pathogens, destroying their DNA/RNA rendering them inactive, and reducing the microbial burden