

ION DISTRIBUTION UNIT

**Covid19
Neutralized**



BiPolar Ionization

- ✓ Kills Covid19
- ✓ Kills Surface Pathogens.
- ✓ Destroys Airborne Pathogens.
- ✓ Sterilizes Mold and Bacteria.
- ✓ Removes Odors.
- ✓ Increases Air Quality.
- ✓ Reduces Static Electricity.
- ✓ Reduces Dust, Pollen and Smoke.
- ✓ Neutralizes Common Industrial Gases.
- ✓ Does Not Produce Ozone.



Part Number **ACA4800GU-1**

The ION DISTRIBUTION UNIT produces up to 2,000,000 Positive and Negative Ions delivered by a powerful 2800 CFM blower motor while maintaining a <math><12.0</math> EVP (electron volt potential), producing no ozone while killing up to 99.7% of both airborne and surface pathogens. This low current blower unit operates with 110 volts while consuming only 4.5 amps. The ION DISTRIBUTION UNIT comes with a weather resistant 2 speed switch and a 25 foot grounded power-cord.



ACA
AVIATION CLEAN AIR

Cleaning the Air We Breathe in Flight



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Engineering**

"Creating the Standard Others Follow"

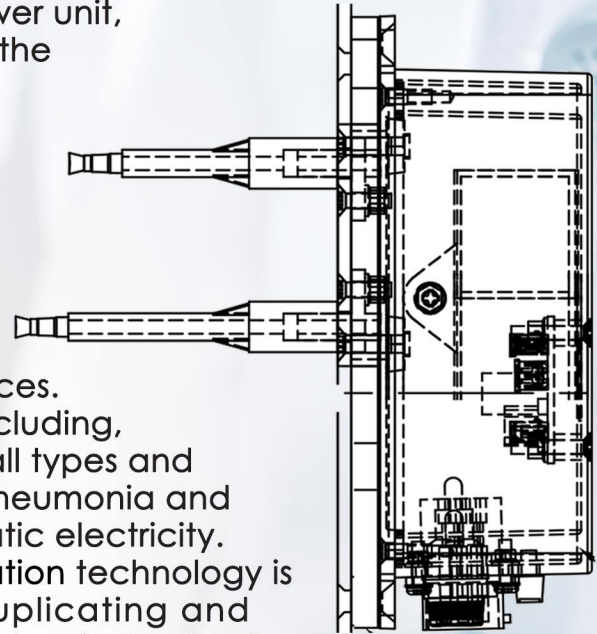
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The ION DISTRIBUTION UNIT uses BiPolar Ionization technology designed to provide clean air and sanitized surfaces in enclosed environments.

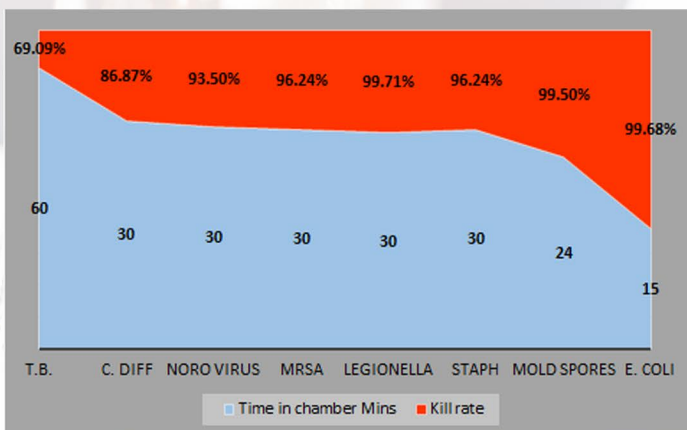
When air flows through the powered blower unit, the ION DISTRIBUTION UNIT kills pathogens in the air and on surfaces. It also removes existing odors and allergens.

The ION DISTRIBUTION UNIT is effective wherever the ionized air reaches. The unit removes all pathogens, odors, as well as other VOCs generated by cooking, cleaning, stagnant air, cigarette/cigar smoke and many other sources. The ION DISTRIBUTION UNIT kills pathogens including, but not limited to, the common cold, flu of all types and variations, MRSA, C. diff, E. coli, M. terrae, pneumonia and polio. The ION DISTRIBUTION UNIT reduces static electricity. The ION DISTRIBUTION UNIT with BiPolar Ionization technology is environmentally friendly and works by duplicating and accelerating nature's cleaning process, with no chemicals added.



- Kills - Covid19
- Kills - Airborne and Surface Viruses,
- Kills - Bird Flu Virus (H5N1),
- Kills - Swine Flu Virus (H1N1),
- Kills - SARS Virus,
- Kills - Staph Bacteria,
- Kills - Mold Spores,
- Kills - MRSA,
- Kills - E.coli, T.B.
- Kills - C.diff and more...

- Controls - Allergens
- Controls - Gases
- Controls - Volatile Organic Compounds
- Removes - Pet Odors
- Removes - Cooking Odors
- Removes - Cigar and Cigarette Smoke
- Removes - Moisture Odors
- Neutralizes - Static Electricity
- Produces No Ozone



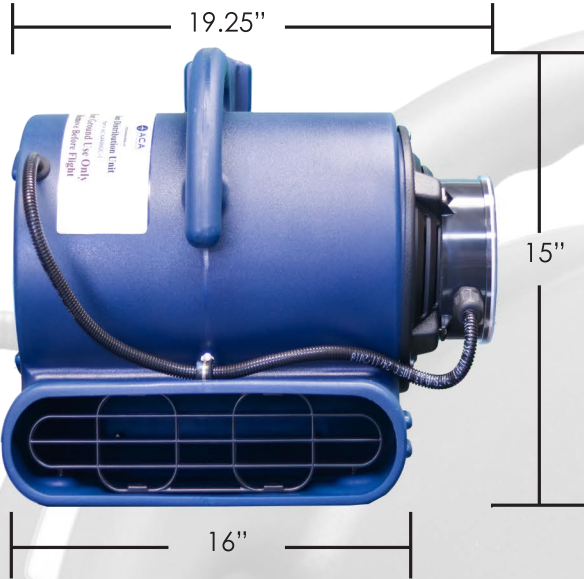
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ION DISTRIBUTION UNIT SPECIFICATIONS

ION Delivery System



BiPolar Ionization Unit



110 VOLT
1/2 HP MOTOR
2 SPEED
1,700 RPM
23 POUNDS
Part Number ACA4800GU-1

2,800 CFM
4.5 AMP BLOWER
25' 18 AWG CORD
GROUND PLUG

Electron Volt Potential: <12
Output: Up to 2 Million positive (H+) and negative (O₂-) ions
Pressure Drop: 0.05" W.C. @5,000 FPM
Electrode Material: Carbon Fiber
Temperature Range: -65°C to +85°C
Humidity Range: 0-99% Non-Condensing
Does not produce Ozone



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How it works:

The Ion Distribution Unit is not a filter. The Ion Distribution Unit electronically creates positive and negative ions from Hydrogen and Oxygen molecules in the water vapor present in the air. This replicates nature's cleaning process with nothing else added. These ions have the property of clustering around micro particles, gases, airborne mold spores, viruses and bacteria. As this occurs, a natural reaction takes place on the cell membrane surface of airborne biological(s) where they rob the harmful biological of a hydrogen atom. As a result, the pathogens are inactivated and odors are disassembled naturally. The pathogen will not be able to reproduce and will quickly die and the odors are converted to virtually pure air thereby eliminating the threat of the pathogens and odors to human health and comfort.

Airborne and Surface Fungi:

The positive (H+) and negative (O²⁻) ions cluster together on the surface of airborne fungi, causing a natural reaction that results in the creation of OH groups called hydroxyls. The hydroxyls take a hydrogen molecule from the cell wall of an airborne fungi particle. This inhibits the growth and or infestation of mold and in turn [as a by benefit] controls the musty odors related to mold growth (sour sock smell). This process is a replication of nature's method for Inactivating Airborne Fungi with nothing else added.

Airborne and Surface Virus:

The positive (H+) and negative (O²⁻) ions surround the hemagglutinin (surface proteins that form on organisms and trigger infections) and change into OH groups called hydroxyls. These groups take a hydrogen molecule from the hemagglutinin and change it into water (H₂O). The ions destroy the virus surface structure. It envelops the structure of the virus on a molecular level. As a result, the virus cannot infect even if it enters the body. This process is a replication of nature's method for Inactivating Airborne and Surface Viruses with nothing else added.

Airborne and Surface Allergens:

The positive (H+) and negative (O²⁻) ions surround the airborne allergen and change into hydroxyls. The hydroxyls then deactivate the molecules of the IgE antibody-binding site of the allergen. No allergic symptoms occur even if allergens enter the body. This process is a replication of nature's method for inactivating Airborne and Surface Allergens with nothing else added.



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