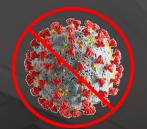
FOR INSTALLATION IN AIRCRAFT ENVIRONMENTAL CONTROL SYSTEMS (ECS) DUCTING

AIRBORNE AIR & SURFACE PURIFICATION SYSTEM

WE MAKE AIR TRAVEL SAFE



SCIENTIFICALLY PROVEN TO NEUTRALIZE SARS-CoV-2 (COVID-19)

- Neutralizes SARS-CoV-2 (COVID-19).
- Neutralizes Surface Bacteria and Viruses.
- Neutralizes Airborne Bacteria and Viruses.
- Sterilizes Mold.
- Removes Odors.
- Improves Air Quality.
- Reduces Static Electricity.
- Reduces Dust, Pollen and Smoke.
- Neutralizes Common Industrial Gases.
 - Produces No Harmful Ozone.



ACA introduces a revolutionary air and surface purification system for Aviation providing a clean, safe, and healthy interior by neutralizing odors, viruses, and allergens. This no maintenance system produces no harmful Ozone while neutralizing both airborne and surface bacteria and viruses. Because it integrates into the existing ECS, it circulates through the entire cabin and is ideal for business as well as commercial aviation.



Cleaning the Air We Breathe in Flight

Web: www.AviationCleanAir.com Email: Sales@AviationCleanAir.com

ACA COMPONENT SPECIFICATIONS

ACA Component P/N ACA-RN-0001 UPC 731717371069

Mechanical Specifications

Dimensions: 7.02" L x 3.27" W x 5.36" H (w/Probes Extended)

Enclosure: Black Anodized Aluminum (Sealed)

Electrode Material: Carbon Fiber

Weight: 1.34 pounds (607 grams)

Temperature Range: -65 degrees C (-85 degrees F)

to +85 degrees C (+185 degrees F)

Humidity Range: 5%-99% Relative Humidity

Electrical Specifications

Voltage: 28 VDC (Range 18-32 VDC)

Current: 150 mA Power: 4.2 Watts

Connection Type: MIL-C-26482, Series 2 Connector / 8 pin / Model MS-3470-L12-8-P

Connection Details: A = 28 VDC, B = DC Common,

C = Chassis Ground, D = Dry Contact Status

Contact, E = Dry Contact Status Contact (F,G, & H not used)

Monitoring: Continuity between pins D & E when unit is powered and no alarms

present. When alarm occurs/unit is not powered, pins D & E will be open.

Output: Up to 2 Million positive (H+) and negative (O2-) ions

Ozone Output: Produces no harmful Ozone

Federal Aviation Administration - Parts Manufacturer Approval (PMA) - November 16, 2017 U.S. Patent D868233 - Design and Utility

Title: AIRCRAFT PROACTIVE AIR AND SURFACE PURIFICATION COMPONENT - Issued November 26, 2019 FAA Project Number ST14781AT-T Supplemental Type Certificate (STC), Boeing Business Jet - February 9, 2015 FAA ST04440AT Gulfstream GVI Supplemental Type Certificate (STC), - February 13, 2019

FAA ST04441AT Gulfstream GVI-X and GV-SP Supplemental Type Certificate (STC), - February 13, 2019

Numerous FAA-STC's for Boeing, Airbus, Gulfstream, Leonardo, Falcon, Bombardier,

plus additional OEM's pending.



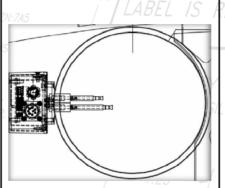
ACA CLEAN AIR A CA

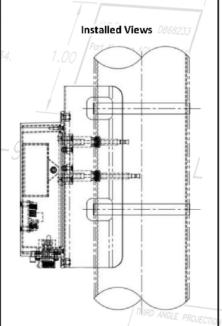
The air and surface purification technology offered by Aviation Clean Air (ACA) is a proactive component that can be added to an existing environmental control system.

The ACA component is not a passive filter system; filtration systems are mostly ineffective as they only collect some of the the allergens, bacteria and viruses.

When air flows through the ECS ducts and into the cabin and cockpit, the ACA component removes existing odors and allergens, proactively and rapidly. It also neutralizes bacteria and viruses in the air and on surfaces where they sit throughout the cockpit and cabin. The ACA Component is effective floor to ceiling and wall to wall wherever the conditioned air reaches. The component removes new odors caused by fuel emissions, as well as other VOCs generated by cooking, cleaning, stagnant air, cigarette/cigar smoke and many other sources. The ACA Component neutralizes bacteria and viruses including, but not limited to, the common cold, flu of all types and variations, MRSA, C. diff, E. coli, M. terrae, pneumonia, and polio. A side benefit is that the product controls static electricity within the cabin and cockpit. Our green technology works by duplicating and accelerating nature's cleaning process, with nothing else added. The benefits are noticeable to crew and passengers.







Mechanical Specifications

Dimensions: 7.02"L x 3.27"W x 5.36"

With probes extended

Enclosure: Anodized Aluminum

(Sealed)

Electrode Material: Carbon Fiber Weight: 1.34 pounds (607 grams) Temp. Range: -65°C / -85°F to

+85°C/+185°F

Electrical Specifications

Voltage: 28 VDC (Range 18-32 VDC)

Current: 150 mA Power: 4.2 Watts

Connection Type: MIL-C-26482, Series 2
Connector: 8 pin - MS-3470-L12-8-P
Pinout: A= 28 VDC, B = DC Common, C=
Chassis Ground, D = Dry Contact Status
Contact, E = Dry Contact Status,

(F,G, & H not used)

Status: Continuity between pins D & E when unit is powered and no fault is present. If a fault occurs the Component is not powered, pins D & E will be open.

Testing

The ACA component has been fully tested and meets and/or exceeds requirements of RTCA DO-160.

The ACA component environmental condition and tests are applicable to all airborne vehicles both Fixed Wing and Rotary aircraft platforms.

Application

The ACA component can be installed in pressurized or non-pressurized environments up to 55,000 Ft Alt



As seen in Business Jet Interiors International 10th Anniversary special issue.

WE FIX THIS!





HOW THE ACA COMPONENT WORKS



Our ACA COMPONENT uses patented NPBI™ Ionization technology to provide clean air and sanitized surfaces delivered through the aircraft ECS

Air produced by the Aircraft ECS delivers the ACA Positive (H+) and Negative (O2-) ions to neutralize pathogens in the air and on surfaces as well as elimination of odors and allergens.

The ACA Component is effective wherever the ionized air reaches. The unit neutralizes bacteria, viruses, odors, as well as VOCs generated by cooking, cleaning, stagnant air, cigarette/cigar smoke and many other sources. The ACA Component neutralizes pathogens including, but not limited to, SARS-CoV-2 (COVID-19), the common cold, flu of all types and variations, MRSA, C. diff, E. coli, M. terrae, pneumonia and polio. Our unit reduces static electricity. The ACA Component with BiPolar Ionization technology is environmentally friendly and works by duplicating and accelerating nature's cleaning process, with no chemicals added.



Neutralizes - SARS-CoV-2 (COVID-19)

Neutralizes - Airborne and Surface Viruses,

Neutralizes - Bird Flu Virus (H5N1),

Neutralizes - Swine Flu Virus (H1N1),

Neutralizes - SARS Virus,

Neutralizes - Staph Bacteria,

Neutralizes - Mold Spores,

Neutralizes - MRSA,

Neutralizes - E.coli, T.B.

Neutralizes - C.diff and more.

Controls - Allergens

Controls - Gases

Controls - Volatile Organic Compounds

ACA

Neutralizes - Pet Odors

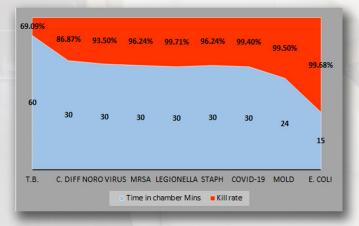
Neutralizes - Cooking Odors

Neutralizes - Cigar and Cigarette Smoke

Neutralizes- Moisture Odors

Neutralizes - Static Electricity

Produces - No Harmful Ozone





The ACA COMPONENT uses patented NPBI™ Ionization technology to provide clean air and sanitized surfaces in enclosed enviorments.

ACA Component P/N ACA-RN-0001

How it works:

The ACA Component is not a filter. The ACA Component electronically creates positive and negative ions from Hydrogen and Oxygen molecules in the water vapor present in the air. This replicates natures' 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 bacterias and viruses are inactivated, and odors are disassembled naturally. The bacterias and viruses 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 bacterias and viruses 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 natures' 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 natures' 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 natures' method for inactivating Airborne and Surface Allergens with nothing else added.



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