

AIRCRAFT IONIZATION UNIT SPECIFICATION SHEET

Part # (ACA-RN-0001)



Mechanical Specifications

Airflow Capacity: 2400 CFM
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: 0-99% non-condensing

Electrical Specifications

Voltage: 28 VDC (Range 18-32 VDC)
Current: 150 mA
Power: 4.2 Watts
Frequency: N/A
Air Flow Sensing: Electronic – no external air pressure switch required.
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.

RTCA/DO-160 and DEF STAN Qualifications:

ACA-RN-0001 Component meets or exceeds the following by test or analysis:

Temperature	Section 4 Cat B4 (-65degrees C [-85 F] to +85 degrees C [+185 F])
Altitude and Air Transportability	Section 4 Cat B4 / 55,000 feet
Humidity	Section 6 Cat C
Operational Acceleration	DEF STAN 00-35 Part 3 Issue 4 Test M-13
Operational Shock	Section 7 Cat A & B & E
Crash Safety Acceleration	DEF STAN 00-35 Part 3 Chapter 2-13 Test M-13
Crash Safety Impulse/Sustained	Section 7 Cat B
Vibration Operating	Section 8 Cat R Curve C & G
Explosive Atmosphere	Section 9 Cat E
Waterproofness	Section 10 Cat W
Fluids Susceptibility	Section 11 Cat F
Sand and Dust	Section 12 Cat D
Fungus	Section 13 Cat F
Corrosion and Erosion	DEF STAN 00-970 Vol 2 Chapter 407
Salt Fog	Section 14 Cat S
Magnetic Effect	Section 15 Cat B & Z
Power Import	Section 16 Cat Z
Voltage Spike:	Section 17 Cat A & B
Audio-Frequency Susceptibility	Section 18 Cat Z
Induced Signal Susceptibility	Section 19 Cat ZC
HIRF, Radio Frequency	Section 20 Cat S & T
Emission of Radio Frequency	Section 21 Cat M & P
Lightning Induced Transient Susceptibility	Section 22
Lightning, Direct Effect	Section 23 Cat X
Icing	Section 24 Cat C
In-flight Loss of Cooling	N/A / No Cooling Required
Electrostatic Discharge	Section 25 Cat A
Emitted Spike	DEF-STAN 59-411 Part 3 Issue 1 Section 9.4
Fire and Flammability	Section 26 Cat A
Solar Radiation	DEF STAN 00-35 Part 3 Chapter 3-03
Humidity Temperature and Pressure	DEF STAN 00-35 Part 3 Chapter 1-03
Tropical Exposure	DEF STAN 00-35 Part 3 Chapter 1-06
Hail	DEF STAN 00-35 Part 3 Chapter 1-19

Endurance: No moving parts to wear out or break. 100% Electronic. Two (2) year exclusive warranty.

Noise: No audible noise emitted.

Key Features: FAA-PMA (2017). Patent Pending. ACA is an Approved Gulfstream Vendor. No maintenance required. STC on a Boeing 737-700 [2015]. STC on a Gulfstream G-550 [2015]. Meets UL867 - Produces no harmful levels of Ozone. Produces no Chemicals. Uses no Chemicals. 100% Green Technology. Quickly removes existing and new odors. Controls existing and new allergens. Kills existing and new pathogens on surfaces throughout the Cabin and Cockpit. Proactive system design. Lightweight. Minimal down time required for installation. Engineering support available upon request.

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