

pNeutron mini Ventilator

Rugged Quality

Built for Action - meets US Army & RTCA Air Worthiness Standards

You need life support devices that function first time and every time – dependable, accurate and ready for action. The pNeutron mini ventilator is built tough to handle the day to day abuse taken by air transport medical equipment. So rugged, they withstand the tests required for the US Army* and RTCA⁺ Air Worthiness Certifications. These tests represent the harshest tests for any product.



The Temperature / Humidity Tests:

- Operate for 4 hours in following ranges
 - a. -15 degrees C (5° F), humidity between 5% & 95%
 - b. 49 degrees C (120° F), humidity between 40% & 70%
- Storage for 6 hours in following ranges
 - a. -47 degrees C (-53° F), humidity between 40% & 95%
 - b. 71 degrees C (160° F), humidity 95%

The Altitude Tests:

- Operation test
 - a. Operate in chamber at 15,000 ft for 2 hours
 - b. Change pressure to ambient at 2,000 ft / min
- Explosive decompression
 - a. Place in chamber at 8,000 ft for 10 minutes.
 - b. Drop pressure to 45,000 ft within 1 second
- Overpressure test
 - a. Place in chamber at -15,000 ft for 10 minutes
 - b. Change pressure to ambient at 2,000 ft / min

The Vibration Tests:

- Sinusoidal vibration “bump test” - applied in each of 3 mutually perpendicular axes
 - a. 24,000 shocks, duration 6 ms per shock
 - b. 1 octave per minute at 15 g’s in each axis
- Random vibration, wide band - applied in each of 3 mutually perpendicular axes
 - a. Frequency range: 10 to 500 Hz
 - b. 30 minutes in each axis at 4 g
- Free fall - drop from 0.75 meter to a concrete floor - test on all 6 surfaces

* Based on US Department of Defense Standard MIL-HDBK-516, October 2002

+ RTCA DO-160G Environmental Conditions and Test Procedures for Airborne Equipment



Airon

Airon Corporation
751 North Drive, Unit 6, Melbourne, Florida 32934 USA
telephone 888-448-1238 (USA toll free) 321-821-9433 fax 321-821-9443