



CABIN COMFORT® Environmental, EMI Test Data and Technical Specifications

TRANSDUCER MASSAGE MOTOR ASSEMBLY

1. Continuous Run With Less Than .8% Failure
 - 67 Days x 24 hrs/day = 1,608 hours
 - 242 Days x 8 hrs/day = 1,936 hours

(Based on ISS test data: an average 8 motor system expected life span is approximately 8-10 years with typical usage)

2. Environmental Testing
 - Temperature and Altitude DO-160D, Sec. 4, Cat. A1
 - Temperature Variation DO-160D, Sec. 5, Cat. C
 - Humidity DO-160D, Sec. 6, Cat. A
 - Operational Shock & Crash Safety DO-160D, Sec. 7, Cat. B
 - Vibration DO-160D, Sec. 8.7.2, Curve C
 - Waterproofness DO-160D, Sec. 10, Cat. W
 - Seat Motor Qual DO-160D, Sec. 7.5.1

3. EMI/RFI
 - RTCA, DO 160D
 1. Sec. 16, Power Input, Cat. A: The EUT
 2. Sec. 17, Voltage Spike Cat. A
 3. Sec. 18, AF Conducted Susceptibility, Cat. Z
 4. Sec. 19, Inducted Signal Susceptibility, Cat. C
 5. Sec. 20, RF Radiated Susceptibility, Cat. T
 6. Sec. 20, RF Conducted Emissions, Cat. T
 7. Sec. 25, Electrostatic Discharge, Cat. A

4. Flammability, Smoke and Toxicity
 - FAR 25.855 45 Degree Bunsen Burner
 - FAR.869 (a)(4) Part 1 (a)(3) 60 degree Test
 - a. Part 1(a) Vertical/Horizontal Burn
 - b. Part IV OSU Heat Release Smoke Density

ASTM E-662 20 Minute Smoke Density

ASTM E-662 4 Minute Smoke Density
 Draeger Tube Toxicity of Gases

5. System Weight

- 2 Zone (4 Motor) – 2.8 lbs.
- 3 Zone (6 Motor) – 3.4 lbs.
- 4 Zone (8 Motor) – 4.1 lbs.
- 5 Zone (10 Motor)- 6.9 lbs.

6. Electrical

- 12 VDC or 115 V, 400Hz input voltage
Maximum Draw is less than 5 watts

7. Current Consumption

- 12 VDC
 - 1000 mA Peak per seat
 - 450 mA Average Current
 - <50 mA Idle Current
- 115VAC 400Hz
 - 105mA Peak per seat
 - 200mA Average per seat
 - <45mA Idle per seat

8. SEB Weights

- 12VDC = 11.4 oz
- **12VDC/115VAC Combination=13.76oz. [CC65SI unit only]**