



# CLARK

## Dynamic Test Laboratory, Inc.

A Division of Clark Testing Group

## Clark Dynamic Test Laboratory Environmental/Aging Testing



Clark Dynamic's Environmental Lab can test equipment at different temperature and humidity environments to comply with IEEE 323 or any other commercial/military standards (Methods 501.1, 502.1 and 507.1 of MIL-STD-810 and Method 102A of MIL-STD-202D). Environmental chambers of different sizes, including walk-in rooms, are available to perform test programs. Temperature range of +200°F to -200°F and relative humidity range of 40% to 100% can be maintained.



## Capabilities

### Calibration & Standards Laboratory

The Clark Dynamic Calibration & Standards Laboratory repairs and calibrates measurement and test equipment (MT&E) and maintains direct traceability to NIST Standards.

- Load Testing - #20, 000
- Gas Flow - 50 cu. ft. hr.
- Humidity
- Accelerometers
- Air Flow - 2,000 fpm
- Water Flow - 3 gpm
- Temp. - RTD
- Load Cells

## Test Equipment

### Grieve B 1-650 Walk-In

Maximum temperature: 350°C  
 Interior dimensions: 50" (W) x 47" (D) x 70" (H)

### 1 Vista C-460 Environmental Room

Temperature range: -80°C to 90°C  
 Humidity range: 40% to 95% RH as limited  
 by 3°C and 50°C Dew points  
 Interior dimensions: 6'-1.5" (W) x 5'-0.5" (D) x 8'-10" (H)

### 1 Vista C-478 Environmental Room

Temperature range: -80°C to 90°C  
 Humidity range: 40% to 95% RH as limited  
 by 3°F and 140°F Dew points  
 Interior dimensions: 11'-10.5" (W) x 11'-8" (D) x 12'-4" (H)

## Related Testing Services

The Clark Dynamic Test Lab is an independent, comprehensive lab that can provide custom test programs. Other testing services provided by Clark Dynamic include:

### Electrical Testing

Megger Insulation	High Voltage to 15,000V
Leak Detection Hi-Pot	Frequency Counter: 2.9 - 10
Current to 100 Amps	Amplitude

### Field Testing

- Vibration Excitation: 50 – 1,000lbs. Shakers
- Data Acquisition: Pressure, Acceleration, Velocity & Displacement, Strain Gage Measurement
- Digital and Analog recording
- Analysis – Fast Fourier & Transient Capture

### Structure & Airborne Noise

- Sound Pressure Measurements
- Sound Power Measurements
- Structure borne Noise Measurements

### Corrosion & Salt Spray

- Salt Spray (fog) & Corrosion testing
- Qualifications to ASTM B117 to replace 811.1 Federal Test Method
- Sample Size: 47.5" (L) x 29.5" (W) x 33.5" (D)

### NEMA 250

- Cabinet & Enclosure Qualification



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