

# The Compliance Management Group

## **Mechanical and Environmental Testing Capabilities**

### **Shock and Vibration Testing Services**

#### **Vibration: UD Electro-dynamic Shaker (T1000)**

##### **Maximum Capacity:**

- 66,800N (15,000 lb.) force
- 5-2,000 Hz
- 52" x 70" head expander (vertical axis)
- 52" x 52" slip table

##### **Data Acquisition: UD and Dactron Controllers**

Sine, Random, Random-on-Random, Shock, Pulse Analysis & Capture and Sine Dwell responses (8 channel max)

#### **Shock: MTS drop Shock tester**

- 0-900 Gs Shock levels
- 0-75 ms Duration
- ½ Sine or Square-wave forms
- 24" x 24" table

##### **Data Acquisition: UD or MTS Controllers**

- Multiple plots on UD controller
- Single plots on MTS controller

#### **Bounce: L.A.B. Bounce table**

- 1,820 Kg (4,000 lb.) capacity
- 72" x 72" Table
- High support rails for product protection
- 0-400 RPMs

#### **Drop Shock: L.A.B. drop tester**

- 150 lb. Capacity
- 48" x 48" package size

#### **Free Fall Drop: L.A.B Quick Release Hook**

- Maximum height 9' 8" to drop hook
- Maximum load weight 1 ton
- Data acquisition on UD controller (6 channels)

## **Temperature, Humidity and Altitude Test Services**

### **Walk-in Chambers: Operating, Non-operating and Storage testing**

#### **Ransco Walk in: Watlow controllers and Honeywell chart recorders**

- -40C to +90C (averaging 3C per minute ramp rate)
- 20% to 95% relative humidity controlled
- 8' 8" wide x 7' 2" deep x 7' 4" ceiling height
- 4' x 7' door opening (with full floor ramp for easy access)
- (2) 4" port holes for cabling

#### **Thermotron Walk in (white): Thermotron controller**

- -20C to +85C (averaging 4C per minute ramp rate)
- 8' wide x 7' 1" deep x 7' 8" ceiling height
- 4' x 7' door opening (with full floor ramp for easy access)
- (2) 6" port holes for cabling

#### **Thermotron Walk in (silver): Thermotron controller**

- -15C to +70C (averaging 4C per minute ramp rate)
- 8' wide x 7' 1" deep x 7' 8" ceiling height
- 4' x 7' door opening (with full floor ramp for easy access)
- (2) 6" port holes for cabling

### **Reach-in Chambers: Operating, Non-operating and Storage testing**

#### **Tenney T55: VersaTenn controller and Honeywell chart recorders**

- 5' wide x 3' 4" deep x 3'4" high
- Temperature range -40C to +100C
- 20% to 95% relative humidity controlled
- (1) 6" port hole and (1) 3" port hole for cabling

#### **Test Equity: Watlow controller**

- 30" wide x 30" deep x 30" high
- Temperature range -50C to +145C
- (1) 3" port hole for cabling

#### **Associated: Watlow controller**

- 24" wide x 24" deep x 24" high
- Temperature range -35C to +100C
- (1) 3" port hole for cabling

#### **Tenney (small): Watlow controller**

- 16" wide x 11" deep x 12" high
- Temperature range -60C to 0C or +10 to +100C
- (1) 3" port hole for cabling

**CSZ 16: Watlow controller**

- 40" wide x 38" deep x 38" high
- Temperature range -40C to +95C
- 20% to 95% relative humidity controlled
- (1) 4" port hole for cabling

**CSZ 16: Watlow controller**

- 24" wide x 24" deep x 24" high
- Temperature range -70C to +140C
- (1) 4" port hole for cabling
- (1) 2" port hole for cabling

**CSZ 32: Watlow controller**

- 38" wide x 40" deep x 34" high
- Temperature range -45C to +150C
- 20% to 95% relative humidity controlled
- 6" port hole for cabling
- 3" port hole for cabling

**Despatch #1: Watlow controller**

- 30" wide x 30" deep x 30" high
- Temperature range -30C to +125C
- 20% to 95% relative humidity controlled
- (2) 4" port hole for cabling

**Despatch #2:**

- 36" wide x 36" deep x 36" high
- Temperature range -60C to +90C
- 20% to 95% relative humidity controlled
- (2) 4" port holes for cabling

**Despatch #4:**

- 36" wide x 36" deep x 36" high
- Temperature range -40C to +95C
- 20% to 95% relative humidity controlled
- (2) 4" port holes for cabling

**Despatch #5:**

- 36" wide x 36" deep x 36" high
- Temperature range -30C to +95C
- 20% to 95% relative humidity controlled
- (2) 4" port holes for cabling

**Despatch #6:**

- 36" wide x 36" deep x 36" high
- Temperature range -50C to +95C
- 20% to 95% relative humidity controlled
- (2) 4" port holes for cabling

**Thermotron S16C:**

- 36" wide x 36" Deep x 36" High
- Temperature range -30C to +150C
- 2" port hole for cabling

**Thermal Shock Chamber**

- 13" wide x 15" deep x 20" high
- Temperature range -40C to +85C

**Altitude Chamber: Operating and Non-operating tests**

- 0-50,000 feet altitude
- 3' wide x 3' deep x 3' high
- 2" port hole for cabling