

## Desert Wind Blowing Sand & Dust Environmental Test Chamber

Perform Blowing Sand and Blowing Dust Tests with one system.

### System Features:

- Choose a fully automated or manual controlled system design.
- Meet and exceed MIL-STD 810G and DO-160 test requirements.
- Ability to perform custom tests or make your own standard.
- Accurate and proven sand or dust concentration measurement.
- Energy efficient design.
- Sealed design with silica dust control systems.

### Standard Design Specifications:

- 1) **Temperature Range** - 72°F – 160°F (22°C – 71°C)
- 2) **Air Velocity Range** - 0 – 45mph (0 – 20m/s)
- 3) **Humidity Range** - Less than 30% RH for Dust Tests
- 4) **Concentration Ranges**
  - a. \*Sand – 0-6 g/m<sup>3</sup>
  - b. \*Dust – 0-12 g/m<sup>3</sup>

Each climate controlled specification may be tailored to meet your specific requirements.

USPTO Patent Pending



### Test Item Applications:

- ❖ Any items subjected to the effects of blowing dust that may obstruct openings, penetrate into cracks, crevices, bearings, joints and to evaluate the effectiveness of filters.
- ❖ Any items ability to be stored and operated in blowing sand conditions without degrading performance, effectiveness, reliability and maintainability due to abrasion (erosion) or clogging effects of large sharp-edged particles.

### Examples:

- ✓ Electrical Components
- ✓ Military Weapons
- ✓ Helicopter Blades
- ✓ Aerospace systems and components
- ✓ Imaging Systems and components
- ✓ Automotive parts
- ✓ Solar Panels