



ENVIRONMENTAL TESTING

INO is Canada's top R&D center specialized in industrial applications for optics and photonics. As a leading technology developer and provider, INO is home to the largest concentration of skills in the field in Canada.

INO offers environmental testing services to clients for a wide variety of purposes including quality control, ground, air and ocean transport simulations, accelerated aging simulations, resonance frequency searches, specifications and standards compliance testing, and product qualification testing for standards like MIL-STD, FOTP, and ESA.



FEATURES

THERMAL CYCLES

- Programmable test chambers: 0.034 m³ to 0.425 m³ (1.2 cu. ft. to 15 cu. ft.)
- Temperature range: -75°C to 200°C (-103°F to 392°F)
- Temperature change rate: up to 10°C/minute (18°F/minute)
- Controlled humidity range of 20% to 95% for temperatures of 7°C to 85°C (45°F to 185°F)

VIBRATIONS

- Electrodynamics shaker: 9800 N (2200 lbf) from 5 to 3000 Hz
- Sine and random vibrations or shocks which can be combined with thermal cycles

SHOCKS

- Shock machine: up to 1500 g
- Data acquisition systems

PTVAC

- Base pressure: 5X10⁻⁶ Torr
- Box temperature: -30°C to +70°C (-22°F to 158°F)
- Dimension : ≈ 8" X 8" X 8"
- Up to 4 RTDs for temperature measurement
- Temperature and pressure recording by LabVIEW
- Located in a Class 10000 clean room

GTVAC

- Base pressure: 5X10⁻⁶ Torr
- Box temperature: -60°C to +60°C (-76°F to 140 °F)
- Dimension : ≈ 24" X 24" X 24"
- Temperature and pressure recording by LabVIEW
- Located in Class 10000 clean room



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