

ZTI Series Environmental & Reliability Test Equipment

Professional Product Introduction | 2026

A complete reliability testing portfolio for corrosion, temperature & humidity, weathering, ingress protection, thermal shock and mechanical performance validation.

LANBO ZTI series equipment is designed for laboratories, automotive and EV component suppliers, electronics manufacturers, metal processors, coatings producers and quality teams that need repeatable test conditions, clear operation and flexible customization.

Product Range at a Glance

Model	Product	Core Test Function	Typical Use
ZTI-120C	Touchscreen Precision Salt Spray Test Chamber	Corrosion and salt spray testing	Ideal for corrosion resistance validation of coatings, plated parts, fasteners, automotive components and electronic hardware.
ZTI-1000D	Composite Salt Spray, Temperature and Humidity Test Chamber	Corrosion and salt spray testing	Ideal for corrosion resistance validation of coatings, plated parts, fasteners, automotive components and electronic hardware.
ZTI-UV-1C	UV Weathering Resistance Aging Test Chamber	Weathering and aging testing	Supports accelerated evaluation of plastics, coatings, rubber, paint and outdoor materials exposed to UV and condensation.
ZTI-1000XD	Xenon Arc Aging Test Chamber	Weathering and aging testing	Simulates full-spectrum sunlight exposure for automotive, plastics, coating and material aging programs.
ZTI-1000LY(IPX1~IPX6)	Rain Spray Test Chamber for IPX1-IPX6	Water ingress and IP testing	Designed for water ingress protection verification of enclosures, lamps, electrical parts and outdoor products.
ZTI-1000LY-9K	High-Pressure Rain Spray Test Chamber for IPX9K	Water ingress and IP testing	Designed for water ingress protection verification of enclosures, lamps, electrical parts and outdoor products.
ZTI-1000SC-ZK	Dust Test Chamber for IP5X/IP6X	Dust ingress testing	Suitable for IP5X/IP6X dust-proof validation of electrical enclosures and mechanical assemblies.
ZTI-C2-42C-W	Two-Zone Cold and Thermal Shock Test Chamber	Thermal shock testing	Designed for rapid thermal transition testing of electronic modules, materials and precision components.
ZTI-C3-200C-W	Three-Zone Cold and Thermal Shock Test Chamber	Thermal shock testing	Designed for rapid thermal transition testing of electronic modules, materials and precision components.
ZTI-UHA-1000G	Programmable Temperature and	Temperature and humidity	Used for reliability validation under

	Humidity Test Chamber	testing	controlled high/low temperature and humidity profiles.
ZTI-UHA-1000E-F10W	Rapid-Change High and Low Temperature Humidity Test Chamber	Temperature and humidity testing	Used for reliability validation under controlled high/low temperature and humidity profiles.
ZTI-UH-1000G	High and Low Temperature Test Chamber	Reliability testing	Suitable for product reliability validation before mass production and customer approval.
ZTI-8000(30kN)	Universal Test Machine, 30 kN	Mechanical property testing	Covers tensile, compression, peel, tear, bending and puncture tests with dedicated fixtures.

Product Details

ZTI-120C | Touchscreen Precision Salt Spray Test Chamber



Recommended application: Ideal for corrosion resistance validation of coatings, plated parts, fasteners, automotive components and electronic hardware.

Key configuration:

- 220V,1600x500x1000mm/800L
- Programmable spray
- Touch input controller
- Import pvc material, Gross weight:452kg
- Continuous /discontinuous/periodic spray method

ZTI-1000D | Composite Salt Spray, Temperature and Humidity Test Chamber



Recommended application: Ideal for corrosion resistance validation of coatings, plated parts, fasteners, automotive components and electronic hardware.

Key configuration:

- 380V.1200x800x900mm/960L,titanium plate material Gross weight:882kg
- Temperature range:20C to 70C
- Humidity range:20 to 98%RH

ZTI-UV-1C | UV Weathering Resistance Aging Test Chamber



Recommended application: Supports accelerated evaluation of plastics, coatings, rubber, paint and outdoor materials exposed to UV and condensation.

Key configuration:

- 220V,1300×1480×550,light temperature:50 to 70 deg C,condensation:RT to 60 deg C,condensation period humidity 85% RH, irradiation period 75% RH
- Sample frame size: 493*300 (mm)
- Sample cut size:75×150*2(mm) W ×H
- Stainless steel material inner chamber
- Gross weight::250kg

ZTI-1000XD | Xenon Arc Aging Test Chamber



Recommended application: Simulates full-spectrum sunlight exposure for automotive, plastics, coating and material aging programs.

Key configuration:

- 380V.1000x1000x1000mm/1000L
- SUS304#stainless steel inner chamber,observe window 370X570mm
- Test lab temperature:RT to 100 deg C
- Radiation/blackboard temperature:40 to 110 deg C
- Irradiation intensity:500W/ m2 to 1200W/ m2(300 to 2450nm)
- Test working platform:dynamic rotation test bench, adjustable speed of 1-7r/min
- Gross weight:1200kg

ZTI-1000LY(IPX1~IPX6) | Rain Spray Test Chamber for IPX1-IPX6



Recommended application: Designed for water ingress protection verification of enclosures, lamps, electrical parts and outdoor products.

Key configuration:

- 380V
- IPX1 to IPX6,1000x1000x1000mm/1000L
- SUS304#stainless steel inner chamber with window 500mmx500mm (LXW)
- Gross weight:: 721kg
- Meet with IPX1
- IPX2
- IPX3
- IPX4

ZTI-1000LY-9K | High-Pressure Rain Spray Test Chamber for IPX9K



Recommended application: Designed for water ingress protection verification of enclosures, lamps, electrical parts and outdoor products.

Key configuration:

- 380V,1000x1000x1000mm/1000L
- SUS304#stainless steel inner chamber with window 500mmx500mm (LXW)
- Gross weight:: 820kg
- Can meet IPX9K standard

ZTI-1000SC-ZK | Dust Test Chamber for IP5X/IP6X



Recommended application: Suitable for IP5X/IP6X dust-proof validation of electrical enclosures and mechanical assemblies.

Key configuration:

- 380V, IP5/IP6, 1000x1000x1000mm/1000L
- Stainless steel material
- Gross weight: 950kg
- Temperature range: RT+10 deg C to 60 deg C
- Dust blowing concentration: According to the inner chamber volume ratio of 2 kg/m³ to 4 kg/m³ (not more than 20 times)
- Screen data: 200 mesh 75um, wire diameter 50um

ZTI-C2-42C-W | Two-Zone Cold and Thermal Shock Test Chamber



Recommended application: Designed for rapid thermal transition testing of electronic modules, materials and precision components.

Key configuration:

- 380V, 400x350x300mm/42L
- Inner stainless steel material, -65 deg C to +150C
- Gross weight: 1100kg
- Temperature recovery time: ≤5min
- Sample basket conversion time: ≤10 seconds

ZTI-C3-200C-W | Three-Zone Cold and Thermal Shock Test Chamber



Recommended application: Designed for rapid thermal transition testing of electronic modules, materials and precision components.

Key configuration:

- 380V
- W650×H400×D780/200L
- Inner stainless steel material, -65 deg C to +150C
- Gross weight: 1500kg
- RT → +200 deg C: approximately 40 minutes
- Temperature recovery time: ≤5min

ZTI-UHA-1000G | Programmable Temperature and Humidity Test Chamber



Recommended application: Used for reliability validation under controlled high/low temperature and humidity profiles.

Key configuration:

- Three phases AC380V, -70 deg C to +150 deg C, 20 to 98%R.H. W1000*H1000*D1000mm/1000L
- Stainless steel material
- Gross weight:: 1300kg
- Heating rate: average 3C/min(empty)
- Cooling rate: average 1C/min(empty)

ZTI-UHA-1000E-F10W | Rapid-Change High and Low Temperature Humidity Test Chamber



Recommended application: Used for reliability validation under controlled high/low temperature and humidity profiles.

Key configuration:

- Three phases AC380V, W1000*H1000*D1000mm/1000L, temperature range: -50 deg C to +150 deg C
- Humidity range: 20 to 98%RH
- Heating rate: -40 deg C to +85 deg C ≥ 10 deg C/min (average throughout the whole process, with 15kg steel)
- Cooling rate: +85 deg C to -40 deg C ≥ 10 deg C/min (average throughout the whole process, with 15kg steel)

ZTI-UH-1000G | High and Low Temperature Test Chamber



Recommended application: Suitable for product reliability validation before mass production and customer approval.

Key configuration:

- Three phases AC380V, -70 deg C to +150 deg C, W1000*H1000*D1000mm/1000L
- Stainless steel material
- Gross weight:: 1300kg
- Heating rate: average 3C/min(empty)
- Cooling rate: average 1C/min(empty)

ZTI-8000(30kN) | Universal Test Machine, 30 kN



Recommended application: Covers tensile, compression, peel, tear, bending and puncture tests with dedicated fixtures.

Key configuration:

- 220V
- Max test 30kN(3T),793x553x2095mm
- Panasonic motor
- USA sensor
- Gross weight:300kg
- Can do tensile,compress,peel,tear, bend,puncture or other test items in one machine(equip different fixtures)

Customization and Compliance

- OEM and ODM support for standard and non-standard chamber configurations.
- Equipment can be designed from compact bench-top formats to large walk-in systems.
- Exterior color, logo branding and user interface details can be customized.
- Equipment is designed to meet CE standard requirements.
- LANBO can recommend models according to specimen size, test standards, temperature range, humidity range, ramp rate and chamber volume.

How to Specify the Right Model

Information Needed	Why It Matters
Test standard or customer specification	Confirms the required chamber type and control functions.
Sample size and loading weight	Determines chamber volume, basket size and internal structure.
Temperature, humidity or exposure range	Defines refrigeration, heating, humidification and control capacity.
Required ramp rate or recovery time	Helps select standard or rapid-change configuration.
Utilities and installation site	Ensures voltage, footprint, ventilation and service access are suitable.

Contact

For model selection, quotation or customized specifications, please contact:

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