

NEWSLETTER

ENVIRONMENTAL TEST CHAMBERS FOR CONFIDENT PRODUCT VALIDATION

Modern products fail for predictable reasons: heat, humidity, corrosion, water ingress, and moisture-driven degradation. The challenge is getting repeatable answers fast, without over-testing or missing real-world failure modes. Environmental test chambers help teams validate reliability earlier, document compliance, and reduce the cost of field failures.

Torontech offers an **environmental chamber lineup** designed to cover the most common qualification and QC scenarios, from compact benchtop temperature/humidity testing to salt spray corrosion exposure, ozone cracking evaluation for rubber, IPX water ingress testing, and accelerated reliability screening with HAST.

Benchtop Environmental Chamber

Toron 15L / 30L / 50L Series



- **Compact Benchtop Capacities:** 15 L, 30 L, and 50 L options for small-sample qualification and R&D testing.
- **Wide Temperature Performance:** Supports -70°C to +150°C (as listed).
- **Temperature + Humidity Simulation (optional):** Positioned for environmental conditioning and reliability testing with optional humidity capability.
- **Standards-Oriented Reliability Use:** Product page references environmental testing standards families (IEC/MIL listed).

Salt Spray Corrosion Test Chamber

TTSS Series



- **Salt Fog Corrosion Simulation:** Designed to reproduce marine-climate salt spray exposure conditions.
- **Coating and Material Evaluation:** Used to assess salt fog resistance of materials, products, and protective coatings.
- **Multiple Configurations Available:** Includes standard salt spray chambers plus a temperature & humidity salt spray variant for expanded corrosion programs.
- **Standards-Referenced Testing:** The product page cites common corrosion standards families used for salt spray programs.



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Rain Test Chamber / IPX Water Spray Test Chamber

Toron-IPX Series



- **Broad IPX Coverage:** Supports IPX levels from IPX1 to IPX9K depending on configuration.
- **Adjustable Water Flow + Programmable Cycles:** Designed for repeatable test routines with adjustable spray/flow and timed testing.
- **Multiple Spray Methods:** Includes drip, spray, jet, immersion-related configurations, and IPX9K high-pressure, high-temperature jet testing (as described).
- **Standards Listed for Ingress Testing:** Product page references typical standard families used for IP testing programs.

HAST / Highly Accelerated Stress Test Chamber

TT-HAST-35 / TT-HAST-55



- **Accelerated Reliability Screening:** Designed to shorten high-humidity stress testing timelines (positioned as faster than conventional testing).
- **Electronics-Focused Applications:** Listed for semiconductors, automotive electronics, aerospace/defense components, medical devices, and consumer electronics.
- **Multiple Model Options:** TT-HAST-35 and TT-HAST-55 provide different chamber sizes/capacity.
- **Standards Referenced for Reliability Testing:** JEDEC/IEC/MIL standards families are listed on the product page.



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Ozone Test Chamber TT-OC-150



- **Purpose-Built for Rubber & Elastomers:** Positioned to evaluate ozone cracking resistance in rubber-related products.
- **UV Ozone Detection + PID Control:** Uses non-dispersive UV ozone detection (QUA) and PID regulation for stable ozone concentration control.
- **Controlled Conditioning Environment:** Product page specifies control of temperature and humidity alongside ozone concentration.
- **Standards Alignment Listed:** ASTM/ISO/JIS standards are referenced directly on the product page.

Ready to Strengthen Your **Environmental Reliability** Testing Workflow?

Torontech's Environmental Test Chambers help teams validate durability, document compliance, and accelerate development decisions across heat, humidity, corrosion, ozone, and water ingress testing. Explore the full lineup here:

<https://www.torontech.com/environmental-test-chamber/>

For expert guidance on selecting the right chamber configuration for your test standards and throughput needs, contact: sales@torontech.com

Why Choose Torontech for

Your Environmental Testing Program

- **Coverage Across Key Failure Modes:** Temperature/humidity stress, corrosion, ozone cracking, water ingress, and accelerated humidity/pressure screening.
- **Compliance-Friendly Testing:** Product pages list widely used standards families (IEC/MIL for environmental cycling; IEC/ISO/ASTM/MIL for IPX; ASTM/ISO/JIS for ozone; JEDEC/IEC/MIL for HAST).
- **Productivity-Focused Controls:** Touch interfaces and programmable operation are emphasized for several chamber types.
- **Right-Sizing Options:** From compact benchtop chambers to larger configurations (IPX range mentions wide sizes; HAST includes multiple models).

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