



TORONTECH

TEMPERATURE TEST CHAMBER



Temperature test chambers simulate environmental conditions to assess product performance under extreme temperatures, such as intense heat and freezing cold. These chambers are essential for evaluating components and materials in industries like electronics, automotive, aerospace, military, and research institutions.

Our ToronTC-Series offers standard sizes from 64 to 1000 liters, covering a wide range of testing needs. For specialized requirements, we provide tailored solutions to meet specific testing demands.

These chambers feature a broad temperature range, from -72°C to 180°C, and a carefully designed structure that ensures safe operation of components and long-term stability while maximizing energy efficiency. Contact us today for customized solutions that fit your testing needs.

APPLICATIONS

Standard

- **IEC 60068-2-1:** Tests for environmental cold conditions.
- **IEC 60068-2-2:** Tests for dry heat.
- **IEC 60068-2-14:** Tests for temperature changes.
- **MIL-STD-810H:** A standard for environmental engineering considerations in military testing.

FEATURES

1. **Smart Temperature Control:** Automatically adjusts for precise testing conditions.
2. **Enhanced Safety:** Multiple protective devices minimize failures and increase machine lifespan.
3. **Efficient Circuit Design:** Simplifies troubleshooting and repair processes.

4. **Reliable Performance:** High-quality compressor ensures stable and consistent operation.
5. **Data Storage:** Comes with a USB interface for storing test data.
6. **Optional Connectivity:** RS-485 and LAN interfaces for remote monitoring and control.
7. **Mobile Convenience:** Equipped with casters for easy balancing and movement.
8. **Door Frame Protection:** Anti-condensation heating and high/low-temperature-resistant sealing strip prevent external condensation and frosting.
9. **Clear Observation:** Vacuum glass window and interior lighting for easy test monitoring.
10. **Effective Water Drainage:** Bottom drainage interface for smooth water removal.
11. **Standard Accessories:** Includes cable ports, shelves, mobile casters, LED lighting, and USB interface for added convenience.

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TECHNICAL SPECIFICATIONS

Model No.	ToronTC-64	ToronTC-150	ToronTC-225	ToronTC-408	ToronTC-1000
Test Space Volume□ Liters□	64	150	225	408	1000
Inner chamber size W×H×D(mm)	400×400×400	600×600×460	700×700×480	700×750×800	1000×1000×1000
Exterior chamber size W×H×D(mm)	700×1652×1170	800×1715×1230	900×1660×1470	900×1710×1790	1200×1910×1725
Temperature range	R: -20°C to +150°C L: -40°C to +150°C S: -70°C to +150°C (180°C optional)				
Temperature fluctuation	±0.5°C				
Temperature uniformity	≤ 2.0°C				
Temperature change rate acc. IEC 60068-3-5	Heating rate 3°C/min, cooling rate 1°C/min(average rate, no load)				
Exterior chamber material	High-quality carbon steel with painting				
Interior chamber material	SUS304 matte stainless steel plate				
Insulation material	Rigid polyurethane foam insulation				
Refrigeration system	Air cooled				
	Hermetic compressor, single stage or cascade refrigeration system, environmental-friendly refrigerant				
Controller	“7””LCD Touch Screen Controller with PID control”				
Safety protection device	NFB(No fuse breaker), over pressure, over heat and over current protectors for compressor, over temperature protectors, over load protector of fan, dry heat protector,short of water protector				

Standard accessory	Sight window*1, Cable port(port Φ50mm / Φ100mm)*2, Shelves*2, LED Lighting device*1 Mobile Casters with foot cups, Power cable*5m				
Ambient temp.	+5 to +35°C				
Voltage	220V AC 1Ø 50Hz (110V is also available)	380V AC 3Ø 50Hz	380V AC 3Ø 50Hz	380V AC 3Ø 50Hz	380V AC 3Ø 50Hz
Customization service	Non-standard or special requirements can be customized.				
Note	Our R&D team will optimize and upgrade standard environmental chambers every year, so some parameters may change. Please consult our salesperson for confirmation of specific specifications.				



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