

INNOVATIVE TECHNOLOGIES



Temperature Test Chamber

ToronTC Series



TORONTECH



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The Temperature Test Chamber is **engineered to replicate extreme environmental conditions, such as intense heat and freezing cold, to evaluate how products perform under stress.** These chambers are crucial for quality assurance and reliability testing across various industries, including electronics, automotive, aerospace, military, and research institutions. They help ensure that components and materials can withstand demanding operational environments before reaching the market.

The ToronTC-Series is available in standard sizes ranging from **64 to 1000 liters**, providing flexibility for different testing applications. For more specific needs, customized solutions can be developed to match exact testing requirements. Each chamber supports a wide temperature range from **-72°C to 180°C** and is designed to promote safe operation, consistent performance, and long-term stability while maintaining energy efficiency. These features make it a reliable choice for rigorous product testing and development processes.



FEATURES/ADVANTAGES

➤ **Accurate Temperature Control**

Automatically maintains stable and precise testing conditions, ensuring consistent performance across all test cycles.

➤ **Integrated Safety & Circuit Design**

Equipped with protective systems and efficient circuits to reduce failure risks and simplify maintenance and repairs.

➤ **Reliable and Consistent Operation**

Uses a high-quality compressor and well-engineered components to support long-term, dependable performance.

➤ **Remote Access & Data Storage**

Supports USB storage along with RS-485 and LAN connectivity for easy data management and remote monitoring.

➤ **User-Friendly Mobility & Setup**

Features smooth-rolling casters, adjustable shelves, and cable ports for quick setup, repositioning, and operation.

➤ **Condensation & Visibility Control**

Includes heated door frames, clear vacuum glass, and interior lighting to prevent moisture and ensure easy monitoring.

➤ **Efficient Drainage System**

Integrated bottom drainage interface ensures quick and reliable removal of condensed water.




TECHNICAL SPECIFICATIONS

SPECIFICATIONS	DETAILS				
	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/±2.0% RH				
Temperature Uniformity	≤ 2.0°C/3% RH				
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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