

INNOVATIVE TECHNOLOGIES



Benchtop Environmental Test Chamber

ToronTHC-36



TORONTECH

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The ToronTHC-36 Benchtop Environmental Test Chamber from Torontech is **engineered for temperature and humidity reliability testing of industrial products in a compact, space-saving design**. With precise environmental control and a wide testing range, it ensures accurate performance evaluation under extreme conditions—helping manufacturers verify product quality, durability, and compliance.

This benchtop chamber meets a range of international standards, including **IEC 60068-2-1** (Low Temperature Test), **IEC 60068-2-2** (High Temperature Test), **IEC 60068-2-3** (Constant Humidity and Heat Test), **IEC 60068-2-30** (Alternating Humidity and Heat Test), **MIL-STD-202F** (High Temperature Life Test), and **MIL-STD-810D** for both high/low temperature and damp heat test methods.

The ToronTHC-36 is Torontech's smallest standard model, offering a temperature range from **-70°C to +150°C**. It is available in three variants: **ToronTHC-36R**, **ToronTHC-36L**, and **ToronTHC-36S**, making it a versatile and reliable solution for laboratories and facilities performing environmental stress testing on a wide range of components and materials.



FEATURES/ADVANTAGES

➤ **Reliable Sealing System**

High- and low-temperature silicone seals, anti-condensation heating, and a pressure balance system ensure stable chamber conditions.

➤ **Durable, Layered Construction**

Built with a cold-rolled steel exterior, flame-retardant foam insulation, and SUS304 stainless steel interior for durability and thermal stability.

➤ **Efficient Thermal Insulation**

Uses B2-grade rigid polyurethane foam to maintain internal temperature uniformity while minimizing energy loss.

➤ **Clear Viewing & Lighting**

A vacuum-insulated observation window with anti-fog film and bright DC 24V LED lights provide clear visibility during tests.

➤ **Accurate Environmental Control**

Independent PID temperature control, balanced temperature-humidity (BTHC) system, and mechanical refrigeration deliver stable results.

➤ **Space-Saving Design**

Compact 36-liter chamber size is ideal for benchtop use while still supporting a full range of temperature tests.

➤ **User-Friendly Interface**

Equipped with a full-color touchscreen display and various alarm functions for easy operation and system monitoring.

➤ **Convenient Mobility & Shelving**

Includes mobile casters for flexible placement and stainless steel shelves for organizing test samples efficiently.

TECHNICAL SPECIFICATIONS


SPECIFICATIONS	DETAILS		
	TORONTHC-36R	TORONTHC-36L	TORONTHC-36S
Volume	36L		
Inner Dimensions W × H × D (mm)	300 × 400 × 300		
External Dimensions W × H × D (mm)	510 × 830 × 1020		
Temperature Fluctuation	±0.5°C		
Temperature Range	-20°Cto+150°C	-40°Cto+150°C	-70°Cto+150°C
Heating Rate	-20°Cto+100°C:3°C/min	-40°Cto+100°C:3°C/min	-70°Cto+100°C:3°C/min
Cooling Rate	+20°Cto-20°C: 1°C/min	+20°Cto-40°C:1°C/min	+20°Cto-60°C:1°C/min
Voltage	220V AC, 3.5KW, 12A (Max.) (110V is also available)		
Noise	≤75dB		





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