



ALTITUDE TEST CHAMBER

Altitude test chambers are specialized testing systems designed to replicate the low-pressure and high-altitude environments encountered at different elevations. These chambers enable precise control over temperature, humidity, and pressure to simulate real-world conditions experienced by products during air transport, space exploration, or operation in high-altitude regions. By testing materials, components, and equipment in these controlled environments, manufacturers can evaluate their performance, reliability, and safety under extreme conditions such as pressure drops, reduced oxygen levels, or rapid decompression scenarios.

APPLICATIONS

Applications and Standards

Altitude test chambers are widely used in industries like aerospace, automotive, electronics, and defense. They are critical for testing components such as aircraft instruments, batteries, semiconductors, and medical devices like oxygen systems, ensuring they function flawlessly at high altitudes. These chambers comply with international standards, such as MIL-STD-810G for environmental engineering considerations, RTCA DO-160 for avionics hardware testing, and ASTM D6653 for evaluating package performance under altitude conditions. Torontech's altitude test chambers are designed to meet these rigorous standards, providing reliable performance, precise testing conditions, and customizable solutions for diverse industry needs.

Altitude Test Chamber

TECHNICAL SPECIFICATIONS

Model No.	ToronAlt-125	ToronAlt-216	ToronAlt-504	ToronAlt-1000	ToronAlt-2300	ToronAlt-4500	ToronAlt-6750
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Pressure deviation	$\leq \pm 2\text{kPa}$ ($\geq 40\text{kPa}$), $\leq \pm 0.5\text{kPa}$ ($2\text{kPa} \sim 40\text{kPa}$), $\leq \pm 0.1\text{kPa}$ ($\leq 2\text{kPa}$)
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/Water 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	Cable port($\Phi 50\text{mm}$)*1, 2pcs stainless steel loading trays, 30kg load/tray, Mobile Casters with foot cups
Ambient temp.	+5 to +35°C
Voltage	380V AC 3Ø 50Hz
Customization service	Non-standard or special requirements can be customized.



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