

QUALITEST
ADVANCED TESTING TECHNOLOGIES



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QUALITEST™

HAST HIGHLY ACCELERATED STRESS TEST CHAMBER



Reliable & Efficient HAST Chambers for Accelerated Aging Tests

Qualitest offers state-of-the-art HAST Chambers (Highly Accelerated Stress Test Chambers) designed to evaluate the long-term reliability of electronic components, semiconductors, and materials under extreme environmental conditions. Our high-performance HAST test chambers accelerate aging processes by exposing products to high temperature, humidity, and pressure, ensuring compliance with JEDEC, IEC, and MIL-STD standards.

What is a HAST Chamber?

A Highly Accelerated Stress Test (HAST) Chamber is an advanced humidity and pressure testing system that simulates real-world environmental stress in a fraction of the time compared to traditional Temperature Humidity Bias (THB) tests. These chambers are essential for identifying moisture-related failures, corrosion, and material degradation in electronics, automotive parts, aerospace components, and medical devices.

Applications of Qualitest HAST Chambers

- Semiconductor & Microelectronics Reliability Testing
 - Evaluates the longevity of ICs, PCBs, transistors, and capacitors under accelerated conditions.
 - Detects early failures due to moisture penetration, corrosion, and electrical leakage.
 - Ensures compliance with JEDEC JESD22-A118, IEC 60068-2-66, and MIL-STD 883.
- Automotive Electronics Testing
 - Simulates extreme humidity and temperature variations for ECUs, sensors, and control modules.
 - Improves product reliability in harsh automotive environments.
- Aerospace & Defense Component Testing
 - Ensures durability of avionics, satellite electronics, and military-grade systems.
 - Helps identify weaknesses in materials before deployment.
- Medical Device & Pharmaceutical Testing

- Validates the reliability of implantable devices, electronic medical tools, and healthcare monitoring systems.
- Tests polymer-based materials for humidity resistance.
- Consumer Electronics & IoT Device Testing
 - Ensures durability of smartphones, tablets, wearables, and smart home devices.
 - Detects potential humidity-related defects in touchscreens, batteries, and circuits.

Why Choose Qualitest HAST Chambers?

- Faster Testing Time - Reduces test durations from weeks to days, accelerating product validation.
- Advanced Stress Simulation - Combines temperature, humidity, and pressure for precise aging tests.
- Energy-Efficient & Cost-Effective - Optimized power consumption for sustainable long-term reliability testing.
- Compliance with Industry Standards - Meets global reliability testing standards like JEDEC, IEC, and MIL-STD.
- Customizable Testing Solutions - Available in various sizes and configurations to meet specific testing needs.

With Qualitest's HAST Chambers, manufacturers can ensure faster, more reliable, and cost-effective product testing to meet stringent industry demands. Our cutting-edge accelerated aging test chambers are engineered to provide accurate, repeatable, and efficient results, making them the preferred choice for leading R&D labs and quality control departments worldwide.

[Contact us](#) today to learn more about our HAST Chambers and how they can enhance your product testing process.

FEATURES

HAST Chambers - Highly Accelerated Stress Test Chambers Features

- Exterior: Premium cold steel with a durable static color spray finish for lasting protection.
- Interior: SUS316 matte stainless steel, ensuring superior resistance and durability.
- Insulation: High-grade ultra-fine glass wool with A1 flame-retardant certification for improved safety.

- Controller: 7-inch touchscreen for user-friendly operation.

TECHNICAL SPECIFICATIONS

HAST Chambers - Highly Accelerated Stress Test Chambers Technical Specifications

Model No.		QT-HAST-35	QT-HAST-55
Interior Size (mm)	Diameter(Φ)	350	550
	Depth(D)	450	650
Exterior Size (mm)	Width(W)	730	1150
	Height(H)	1630	1550
	Depth(D)	1100	1400
Temperature Range		+105°C~+135°C	
Humidity Range		65%RH to 100%(Unsaturation control) 100%RH (Saturation control)	
Pressure Range		0.05~0.3MPa Gauge pressure: +0.2~200kPa Absolute pressure: 100 ~ 300kPa	
Temperature Fluctuation		± 0.5°C	

Temperature Uniformity	$\leq 3.0^{\circ}\text{C}$
Temperature Deviation	$\leq \pm 3.0^{\circ}\text{C}$
Humidity Fluctuation	$\pm 3.0\% \text{ RH}$
Humidity Deviation	$\pm 5.0\% \text{ RH}$
Pressure Deviation	$\leq \pm 2\text{kPa}$
Heating Rate	$\pm 25^{\circ}\text{C} \sim +135^{\circ}\text{C}$ within 45 min (average in whole process) (no-load,no heating)
Pressurization Time	Normal Pressure $\sim 200\text{kPa}$ within 20 min
Voltage	220V AC 1Ø 50Hz (110V is also available)
Noise	$\leq 68\text{dB}$ (1 meter distance from the door)
Safety Protection Device	NFB (No fuse breaker), over pressure, overheat and over current protectors for compressor, over temperature protectors, overload protector of fan, dry heat protector, short of water protector.



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Connect with us

Contact our **QualiTeam** today to find out how we can help your organization **select the most suitable testing solution** for your application, requirements, and budget.

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