

# Highly Accelerated Stress Test chamber HAST/PCT

## Product Overview

HAST test chambers are suitable for IC packaging, semiconductors, microelectronic chips, magnetic materials and other electronic parts to conduct accelerated life reliability tests such as high pressure, high temperature and high humidity. They are suitable for the product design stage. They are used to quickly expose product defects and weak links and test the sealing and aging performance of the products.

## Product Features

The inner tank adopts a double-layer arc design to prevent condensation and dripping during the test, thereby avoiding the product from being directly impacted by superheated steam during the test and affecting the test results;  
Adopts a high-efficiency vacuum pump to make the inner tank reach the best pure saturated steam state;  
Adopts a 7-inch true color touch screen with 99 groups of 4950 programs, USB curve data download function, RS-485 communication interface;  
Adopts dry-wet bulb sensor for direct measurement (control mode is divided into 3 modes: dry-wet bulb, unsaturated, wet saturated, etc.).

## Test methods and standards

- GB 10589-89 Technical conditions for low temperature test chambers
- IEC 68-2-14 Test N
- GB 11158-89 Technical conditions for high temperature test chambers
- GJB 150.3-86/150.4-86
- GB 10592-89 Technical conditions for high and low temperature test chambers
- GB 2423.1-89 Basic test procedures for electric and electronic products
- A: Low temperature test method;
- GB 2423.1 Low temperature test, Test A
- GB 2423.2-89 Basic test procedures for electric and electronic products
- B: High temperature test method;
- GB 2423.2 High temperature test, Test B
- GB 2423.22 Temperature change test, Test



Technical parameter			
Model		HAST-35（Unsaturated）	PCT-35（Saturated）
Interior size (mm) Cylindrical pressure inner chamber	Ø	350	350
	D	450	450
Exterior size (mm)	W	880	730
	H	1575	1630
	D	1160	1300
Temperature range		+105℃ to +135℃	
Humidity range		(1) HUM unsaturated test mode:65~100%RH (2) STD saturated test mode:100%RH	100%RH（STDsaturation test mode）
Pressure Range		Gauge pressure: +0.2 to 200Kpa *Absolute pressure: 100 to 300Kpa	
Temperature fluctuation		±0.5℃	
Temperature uniformity		≤3.0℃	
Temperature deviation		≤±3.0℃	
Humidity fluctuation		±3.0%RH	
Humidity deviation		±5.0%RH	
Pressure deviation		≤±2 kPa	
Heating rate		+25℃ to +135℃, about 45 min (No load, No heat)	
Ramp-up time		Normal pressure to 200Kpa 20min	
Interior material		Stainless steel plate(SUS 316)	
Exterior materia		High-quality cold-rolled steel plate, surface electrostatic powder coating	
Insulation material		Ultra-fine glass wool insulation layer, flame retardant grade A1	
Chamber door		Single door, flush-mounted rotating handle	
Chamber unit		Water storage tank, cooling vent, automatic water replenishment pump, water replenishment solenoid valve, water level box, drainage hole	
Emergency pressure relief		Manual pressure relief valve	
Controller		KOME G 7-inch color touch screen intelligent controller *Operating system: KOME G KM-5166 cold output version	
Protective devices		Over-temperature protection, compressor over pressure, circuit breaker, overload protection, fan overload protection, oil pressure protection, water shortage protection, leakage protection.	
Standard accessories		2-layer stainless steel sample rack, 4 mobile casters (with foot cups)	

\*Note: Each parameter, size and appearance are tailored according to customer requirements.  
We reserve the right to modify technical parameters.