

Highly Accelerated Stress Test chamber

DS-ST-35/DST-35



Product Overview

DSST 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.).

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Model	DS-ST-35 (Unsaturated)	DST-35 (Saturated)
Temperature range	+105°C to +135°C	
Humidity range	.HUM unsaturated test mode: 65~100%RH .STD saturated test mode: 100%RH	100%RH (STD saturation test mode)
Pressure Range	Gauge pressure: +0.2 to 200Kpa *Absolute pressure: 100 to 300Kpa	
Temperature fluctuation	±0.5°C	
Temperature uniformity	≤3.0°C	
Temperature deviation	≤±3.0°C	
Humidity fluctuation	±3.0%RH	
Humidity deviation	±5.0%RH	
Pressure deviation	≤±2 kPa	
Interior size (mm) Cylindrical pressure inner chamber (ØxD)	350x450	
Exterior size (mm) (DxHxW)	880x1575x1160	
Heating rate	+25°C to +135°C, 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	7-inch color touch screen intelligent controller *Operating system: 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)	