

RAPID-RATE THERMAL CYCLE CHAMBER

快速温变试验箱 HD-E708



仪器简介 Product Introduction

快速温变试验箱主要用于考察产品热机械性能引起的失效，温度变化率一般小于20℃/分钟，实现以最快的速度真实再现所测样件应用环境条件。当构成产品各部件的材料热匹配较差，或部件内应力较大时，温度循环试验可引发产品由机械结构缺陷劣化产生的失效。一般应用于光电器件、互连电路、组件单元及电子设备的筛选试验和失效模式评估。是发现产品设计缺陷和工艺问题的有效方法。

Rapid-rate Thermal Cycle Chamber can evaluate the failure mechanical properties of product; normally the temperature ramp rate is less than 20℃/min, which can achieve the real application environment of testing sample by the fastest ramp rate.

The chamber is applied to the screening test and failure mode evaluation of photoelectric components, interconnection circuits, component units and electronic devices.

技术参数 Technical Parameters

型号	HD-E708-100	HD-E708-150	HD-E708-225
内箱尺寸 (W*D*H)	400*500*500mm	500*500*600mm	500*600*750mm
外箱尺寸 (不锈钢款)	900*1070*1400mm	1000*1070*1500mm	1000*1170*1650mm
外箱尺寸 (烤漆款)	600*1080*1380mm	700*1080*1480mm	700*1180*1630mm
温度℃	-20/-40/-70	-20/-40/-70	-20/-40/-70
最大电流A	22, 22, 28	22, 22, 28	18, 18, 23
电压V	单相220V	单相220V	三相380V
温度范围	-20℃; -40℃; -70℃~ +150℃		
温度控制精度	0.01℃		
温度均匀度	≤ ±2.0℃		
温度偏差	±0.5℃~ ±0.2℃ (空载)		
升温速率	1℃/分钟~20℃/分钟, 可定制		
降温速率	1℃/分钟~20℃/分钟, 可定制		
湿度范围	20%~98%RH		
湿度控制精度	0.1%RH		
湿度均匀度	±3%RH (空载)		
内箱材料	304不锈钢		
外箱材料	不锈钢或烤漆		
内箱尺寸	非标定制, 研发制造		

满足标准 Test Standard

GB/T5170.2-2008 Temperature Test Equipment
 GB/T2423.1-2008 (IEC60068-2-1:2007) Tests: Test A - Cold
 GB/T2423.2-2008 (IEC60068-2-2:2007) Tests: Test B - Dry Heat
 IEC 60068-2-14 2009 Tests: Test N - Change Of Temperature

Model	HD-E708-100	HD-E708-150	HD-E708-225
Internal Dimension	400*500*500mm	500*500*600mm	500*600*750mm
External dimension (SUStype)	900*1070*1400mm	1000*1070*1500mm	1000*1170*1650mm
External dimension (Painttype)	600*1080*1380mm	700*1080*1480mm	700*1180*1630mm
Temperature (℃)	-20/-40/-70	-20/-40/-70	-20/-40/-70
Maximum Current (A)	22, 22, 28	22, 22, 28	18, 18, 23
Voltage (V)	Single-phase220V	Single-phase220V	Three-phase380V
Temp. range	0℃; -20℃; -40℃; -70℃~ +150℃		
Temp. Display Accuracy	0.01℃		
Temp. uniformity	≤ ±2.0℃		
Temp. deviation	±0.5℃~ ±0.2℃ (without load)		
Heating speed	1℃ / min ~ 20℃ / min, can be customized		
Cooling Speed	1℃ / min ~ 20℃ / min, can be customized		
Humid. range	20%~98%RH		
Humid. resolution	0.1% R.H.		
Humid. uniformity	±3%RH (without load)		
Internal chamber material	Stainless steel 304		
External chamber material	Stainless steel / paint spray		
Internal dimension(W*D*H)	Can be customized		