

可程式恒温恒湿试验机
Programmable Temperature & Humidity Chamber



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High Technology 科技创新技术



多元化Labview测试整合

自动切换庆声与Labview通讯架构

Auto-switch between KSON and Labview communication architecture



網路记录器

测试结果采e化管理

E-management of testing results



即时讯息提示(故障提醒/告知)

立即掌控机台状态, 藉手机传达简讯与语音

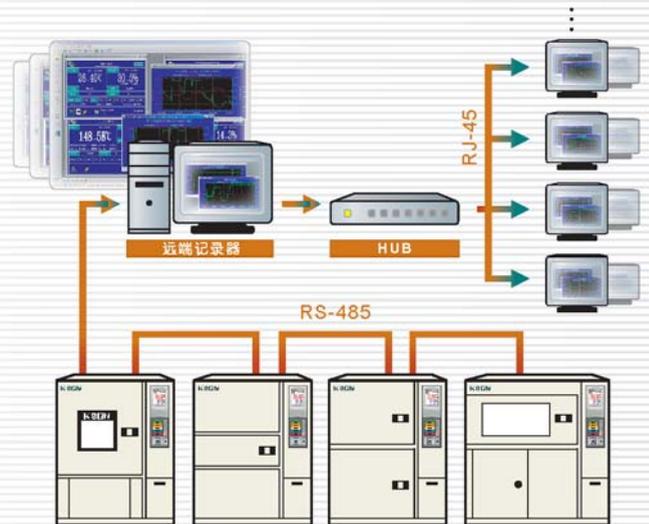
Sending SMS and voice message via mobile phone; instantly controlling the machine status



拥有多项专利

目前通过「恒温恒湿机防止结露专利」与「控制超音波之加湿装置专利」

The patents on "The Dew Congealment Prevention for Constant Temperature & Humidity Chamber" and "The Humidifier Device of Ultra-Sonic Controlling" obtained



▲ e化管理与控制机台 ▲
E-management and controlling machine



▲ 「恒温恒湿机防止结露」第M 677087号 ▲
「控制超音波之加湿装置」第a 47592号
The Dew Congealment Prevention for Constant Temperature
Humidity Chamber number M 677087 and The Humidifier Device of
Ultra-Sonic Controlling number a 47592.



Key Value 核心价值

Touch panel 彩色触控式控制器



贴心安全设计

实验结束后，机台自动回常温贴心保护待测品
Automatic restore to normal temperature after the experiment, to protect the tested item.



机台维护即时掌控

故障病历软体设计
The software design of breakdown history.



smart 提示装置

当湿度水桶用水低於15小时安全存量，自动提供讯息
Sending an automatic message when the water stock of the humidity tank is less than the safety-amount of basic 15 hours



定点功能
locating function



编辑程式
Editor program



状态监视
Status monitor



Laboratory class

温湿度重复性、再现性、稳定性高
High repeatability, reproduction ability and stability of temperature & humidity



符合国际规范

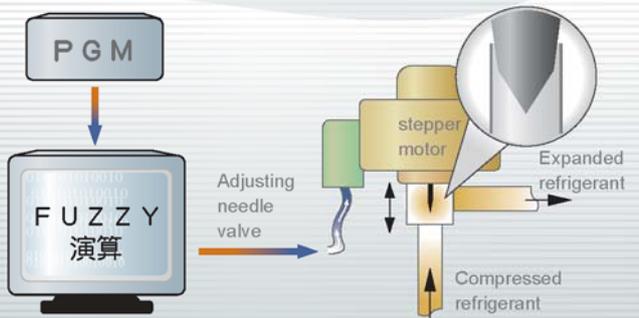
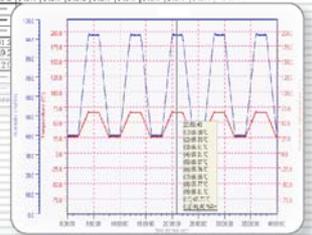
箱体不凝结设计，避免测试结果误判，提高准确性
Non-condensing chamber design to prevent misreading of testing results and provide high accuracy [「恒温恒湿机防止结露」专利申请第M 677087号](#)



智慧型调节发热负载

采电脑自动调整冷媒流量，有效带走待测品发热负载
Using computer to automatically adjust refrigerant flow, effectively removing the heat load of the item [「控制超音波加湿器」专利申请第a 47592号](#)

测试日期	测试时间	测试地点	测试人员	测试设备	测试结果
2004/09/28	12:00	实验室	张三	TH-2000-A	50.58°C, 37.5%
2004/09/29	12:00	实验室	李四	TH-2000-A	50.58°C, 37.5%
2004/09/30	12:00	实验室	王五	TH-2000-A	50.58°C, 37.5%



▲ 智慧化调整发热负载能力 Intellectual adjustment of heat loading capability ▲



KM (知识管理) 教学光碟

提供机台使用教学光碟，方便客户建构知识管理平台(KM)内容与内部教育训练

Machine -usage tutorial discs are provided for customers to easily construct Knowledge Management (KM) platform content and conduct internal training courses



可靠度时序控制 & 安全设计

可程式控制待测品ON/OFF设计，可与机台同步断电保护设备及待测品

The programmable ON/OFF design to control the tested item. Synchronized power-off with the machine to protect the equipment & the tested item



主动检测控制系统

主动检测控制器，采通讯传输CHECK SUM 检查

Automatic check controller, using telecommunication transmission CHECK SUM verification



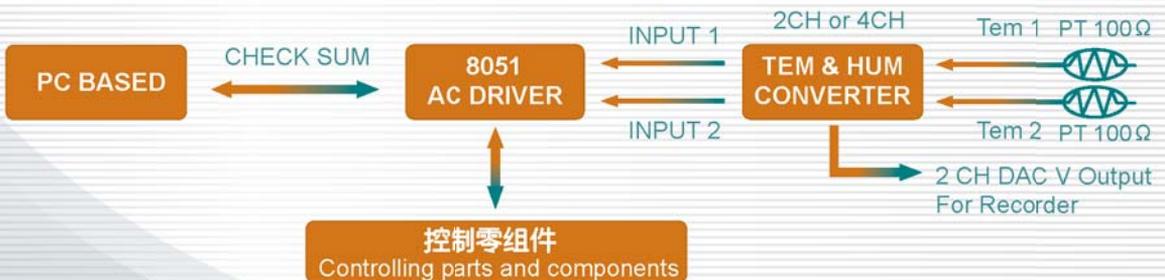
▲ 提供教学光碟 ▲
A tutorial disc is provided



推动总电流10安培(A)的负载 (Driving the total current load of 10A)

▲ 可程式控制时序接点 ▲
Programmable controlling timing Junction

检测控制系统架构 Checking and testing the control system architecture



可程式恒温恒湿试验机规格表 Programmable temperature & humidity chamber Specification table

规格(SPECIFICATION)	KTHA	KTHB	KTHC	KTHD	KTHG
温度与湿度控制(TEMPERATURE AND HUMIDITY CONTROL)					
内箱尺寸(Inside dimensions(W·D·H)cm)	50×55×60		50×60×75		60×80×85
外箱尺寸(Outside dimensions(W·D·H)cm)	114×88×147		114×93×162		127×113×172
内容积(Inside capacity) / 公升(Liter)	165		225		408
净重(Net weight)(kg)	325	300	380	350	520 450 410
绝缘材料(Insulation material)	防火PU发泡 (70℃~100℃) 或 玻璃纤维 + 防火PU发泡 (110℃ 以上)				
内箱材料(Internal material)	SUS #304 不锈钢 (Stainless steel)				
外箱材料(External material)	SUS#304不锈钢 (Stainless steel) + 9493粉体涂装 (3B surface treatment)				
高温(High temperature (H.T.)℃)	100	150	100	150	100 150
升温时间(Heating time (20℃-H.T.)min)	30	45	30	45	30 45
低温(Low temperature(L.T.))	-70	-60	-50	-40	-30
降温时间(Cooling time (20℃-L.T.)min)	85	70	50	45	35 30 20 10
湿度范围(Humidity range)	10 ~ 98 % RH				
温度分布偏差(Temperature Variation℃)	±1.0℃(-40℃~100℃)/±1.5℃(-40.1℃~70℃: 100.1℃~150℃)				
湿度分布均匀度(Humidity Variation %)	±3(中心点)				±5(中心点)
温度稳定度(Temperature stability ℃)	± 0.2				
湿度稳定度(Humidity stability %R.H)	±2				
温度解析度(Temperature resolution ℃)	± 0.01				
湿度解析度(Humidity resolution %R.H)	± 0.1				
主要装置(MAJOR DEVICE)					
循环系统(Circulation system)	机械式的对流系统 (Mechanical convection system)				
冷冻系统(Cooling system)	空气冷却密闭型/半密闭型压缩机(Air cooling hermetic/semi-hermetic compressor)HFC环保冷媒 二元式/一元式				
加热系统(Heating system)	平衡温度(Balance temperture)P.I.D.+P.W.M.+S.S.R.				
加湿系统(Humidification system)	平衡湿度 (Balance Humidity) P.I.D. + P.W.M. + S.S.R.				
加湿给水系统(Humidification water supply)	自动水位控制(Automatic water regulating)+可回收供给系统(Recoverable supply system)				
控制器(Controller)	KTH-2005 Touch panel				
电源(Power source)	AC 220V / 1 φ 3 wire: 380 V / 3 φ 5 wire: AC 220V / 3 φ 4 wire				
水质(Water quality)	蒸馏水 (Distilled water only)				
环境温度(Environmental temperature)	+ 5℃ ~ + 30℃				
地板空间(Floor space (W · D) cm)	170 * 200	170 * 210	180 * 240	220 * 240	220 * 240
扩充设备(Optional accessories)	时序插座(power supply socket),CM通讯介面(communication interface) 大视窗(big viewing window)(降温时间增加10分钟)玻璃门中门:降温增加5分钟				

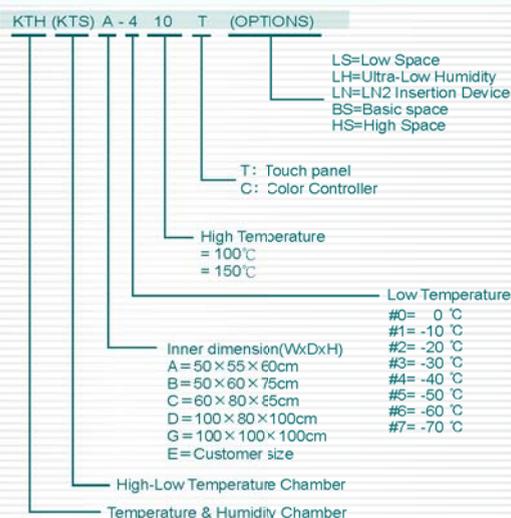
※温度分布均匀度依照GB/T 5170:1996

The temperature distribution uniformity is tested according to GB/T 5170:1996

※以上规格, 请以实体报价为主, 最终解释权归本公司所有 For above accessories, their actual specifications may vary.

The right of final interpretation belongs to our company.

Model Code



温湿度可控制能力范围表 temperature & humidity range

