UBD

UP-6195 Three-in-one Temperature Humidity Test Chamber

Three-in-one Temp.Humid.Test Chamber

It is applied to test the materials in heat-resistance, cold-resistance, dry-resistance, moisture-resistance. It is simple to operate and program easy to edit. It can show the set values and operative time.
Applied to test the products quality, such as electronic, plastic products, electrical appliances, instruments, food, vehicles, metals, chemicals, building materials, aerospace, medical care and so on.
The three-in-one design makes the equipment easy to operate and space-saving.Users can do different testings of high temperature,low temperature and constant temperature humidity condition in every single testing area.
Every system is entirely independent each other,adopts 3 sets of refrigeration systems,3 sets of humidifying systems and 3 sets of controlling systems,so as to ensure stable and accurate controlling,and provide a longer service life.

Touch control & setting mode is totally controlled and locked up by automatic micro computer system with PID value automatic calculating ability.

Specification:

Model No			**TH-072-(+10)-2P**	**TH-162-(+10)-2P**
Inner chamber size(mm)W*H*D			400×400×450	600×450×600
Exterior chamber size(mm)W*H*D			1060×1760×780	1260×1910×830
Performance	Temperature range		-160℃,-150℃,-120℃,-100℃,-80℃,-70℃,-60℃,-40℃,-20℃,0℃~+150℃,200℃,250℃,300℃,400℃,500℃	
	Humidity range		20%RH ~98%RH(10%RH ~98%RH or 5%RH ~98%RH)	
	Temp.&Humi fluctuation		±0.2℃, ±0.5%RH	
	Temp.Humi.Uniformity		±1.5℃; ±2.5%RH(RH≤75%),±4%RH(RH>75%)No-load operation,After stead state 30 min.	
	Temp.humi resolution		0.01℃; 0.1%RH	
	20℃~High Temp	℃	100 150	
	Heating up time	Min	30 40 30 40 30 45 30 45 30 45 30 45	
	20℃~Low temp	℃	0 -20 -40 -60 -70	
	Cooling down time	Min	25 40 50 70 80	
	Heating rate		≥3℃/min	
	Cooling rate		≥1℃/min	
Material	Inner chamber material		SUS#304 stainless steel plate	
	Exterior chamber material		Stainless steel plate+ powder coated	
	Insulation Material		PU & Fiberglass wool	
System	Air circulation system		Cooling fan	
	Fan		Sirocco fan	
	Heating System		SUS#304 stainless steel high-speed heater	
	Air flow		Forced Air Circulation(It enters at bottom and leaves at top)	
	Humidification system		Surface evaporation system	
	Refrigeration system		Imported compressor,French Tecumseh compressor or German Bitzer Compressor,finned type evaporator,air(Water)-cooling condenser	
	Refrigerating fluid		R23/ R404A USA Honeywell.	
	Condensation		Air(Water)-cooling condenser	
	Dehumidifying system		ADP critical dew point cooling/dehumidifying method	
Controller	Controlling system		Digital electronic indicators+S.S.R.With PID automatic calculation capability	
	Operation interface		**Grande Expertise in Temperature & Humidity Controller,Chinese-English Shift.**	
	Programmable capability		Save 120 profiles with up to 1200 steps each	
	Setting range		Temperature:-100℃+300℃	
	Reading accuracy		Temperature:0.01℃	
	Input		PT100 or T Sensor	
	Control		PID control	
	Communication interface		Equipped with standard communication interface devices USB,RS-232 and RS-485,enable the test chamber to be connected with personal computer(PC),to	

		achieve multi-machine control and management at the same time.Standard: USB external memory port.Optional: RS-232, RS-485, GP-IB, Ethernet
	Print function	Japan Yokogawa Temperature Recorder(Optional accessories)
	Auxiliary	Limit Alarm,Self Diagnosis,Alarm Display(Failure Cause),Timing device(Automatic Switch)
Accessories		Multi-layer vacuum glass observation window,Cable port(50mm),Controlling status indicator lamp,Chamber light,Specimen loading shelf(2pcs,position adjustable),Guaze 5pcs,Operation manual 1 set.
Safety protection device		Over-heat protection circuit breaker,Compressor overload protection,Control system overload protection,Humidifying system overload protection,Overload indicator lamp.
Power supply		AC 1Ψ 110V;AC 1Ψ 220V;3Ψ380V 60/50Hz
Customized service		Welcome to Non-standard,Specail requirements,OEM/ODM orders.

The technical information will be subjected to change without notice

Feature:

- High performance and quiet operation (65 dBa)
- Space-saving footprint, designed for flush installation to wall
- Stainless steel exterior
- Full thermal break around doorframe
- One 50mm (2") or 100mm (4") diameter cable port on left, with flexible silicone plug
- Three levels of overheat protection, plus overcool protection
- Easy lift-off service panels, electrical access on left
- Detachable eight-foot power cord with plug
- ETL listed electrical panel conforming to UL 508A

Touch-screen programmer/controller with Ethernet

Save 120 profiles with up to 1200 steps each (ramp, soak, jump, auto-start, end)

One event relay for external device control, plus specimen power interlock relay for safety

Grande exclusive options include: Web Controller for full remote access; Chamber Connect software for basic data logging and monitoring. USB and RS-232 ports available, as well.

Standard Referance:

- GB11158 high-temperature testing condition
- GB10589-89 low-temperature testing condition
- GB10592-89 high-low-temperature testing condition
- GB/T10586-89 humidity testing condition
- GB/T2423.1-2001 low-temperature testing condition
- GB/T2423.2-2001 high-temperature testing condition
- GB/T2423.3-93 humidity testing condition
- GB/T2423.4-93 alternating temperature testing machine
- GB/T2423.22-2001 temperature testing method
- EC60068-2-1.1990 low-temperature testing method
- IEC60068-2-2.1974 high-temperature testing method
- GJB150.3 high-temperature test
- GJB150.3 high-temperature test
- GJB150.9 humidity test