

UBD

UP-6195C Temperature Humidity Vibration Test Chamber



Temperature.humidity and vibration test chamber/Temp.humidity and vibration compatible Chambers

For years Temp.humidity and vibration compatible Chambers have been the workhorses of the environmental test chamber industry. Originally created to meet military test standards, their flexible design has made them suitable for a wide variety of applications. Fast temperature changes of 5 to 25°C/m. are possible, even with significant loads. The chambers have a removable floor, allowing integration with vibration test systems. Custom designs are common, allowing configuration to meet your exact requirements.

Special model can interface with both vertical and horizontal vibration systems

Feature

1,Capacity: 63 L to 6000L

2,TemperatureRange:-160°C,-140°C,-120°C,-100°C, -80°C,-70°C,-60°C,-40°C,-

20°C,0°C~+150°C,200°C,250°C,300°C,400°C,500°C

3, Humidity Range: 10-99%RH

4, Cooling rate: 2-3°C/min (standard), 5°C/min, 10°C/min, 20°C/min as option

5, Vibration: maximum up to 5000kgf, 100g

Refrigeration and Plenum

1, Rear-mounted plenum with cooling coil and nichrome wire heaters

2, Two ¾ hp blower motors with one-piece stainless steel shafts

3, Non-CFC cascade refrigeration system using semi-hermetic Copeland Discus compressors

4, Hinged service access doors with lockable snap-action latches

Technical parameters:

Model No	UTHV-306	UTHV-408	UTHV-800	UTHV-1000
Inner chamber size(mm)W*H*D	850*600*600	850*600*800	1000*1000*800	1000*1000*1000
Exterior chamber size(mm)W*H*D	1750*800*1020	1750*800*1320	1900*1200*1320	1900*1200*1520
Max table-board size of Vibrostand(mm)	Horizontal:400*400			
	Vertical:400*400			
Performance	Temperature range	-160°C,-140°C,-120°C,-100°C,-80°C,-70°C,-60°C,-40°C,-20°C,0°C~+150°C,200°C,250°C,300°C,400°C,500°C		
	Humidity range	20%~98% R.H (10%~98% R.H;5%~98% R.H Optional).		
	Temp.&Humi fluctuation	±0.5°C, ±2%.		
	Temp.Humi.Uniformity	±1°C, ±2%.		
	Temp.humi Deviation	≤±2°C/ ±3%RH.		
	Heating up time	About 3~4°C/min.(Customized requirements:Fast temperature change rate:5°C~25°C/min,linear average or nonlinear average).		
	Cooling down time	About 0.7°C~1°C/min (Customized requirements:Fast temperature change rate:5°C~25°C/min,linear average or nonlinear average).		
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,Tecumseh compressor(or Bizer 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
	Controlling system	Digital electronic indicators+S.S.R.With PID automatic calculation capability
	Operation interface	Grande Expertise in Temperature & Humidity Controller,Chinese-English Shift.
Controller	Programmable capability	Save 120 profiles with up to 1200 steps each
	Setting range	Temperature:-100°C+300°C
	Reading accuracy	Temperature:0.01°C
	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.