



Benchtops Temperature & Humidity test chambers (CE + ISO)



Applications

- Quality testing Laboratory
- University Laboratory
- Research Laboratory
- Components factories

Functions

- Simulate the temperature environment
- Simulate the humidity environment
- Temperature & Humidity test cycle
- Programmable controlling
- PC connection

Strengths

- Added 10% ~ 98%R.H humidity controlling based on the temperature controlling
- Bench type, save more space in Laboratories.
- High quality famous components, assure the reliability performance
- Touch screen input, control easily and conveniently

Previews



Front



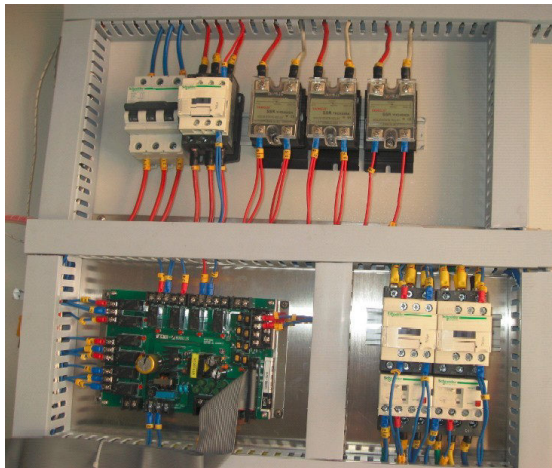
Back



Left



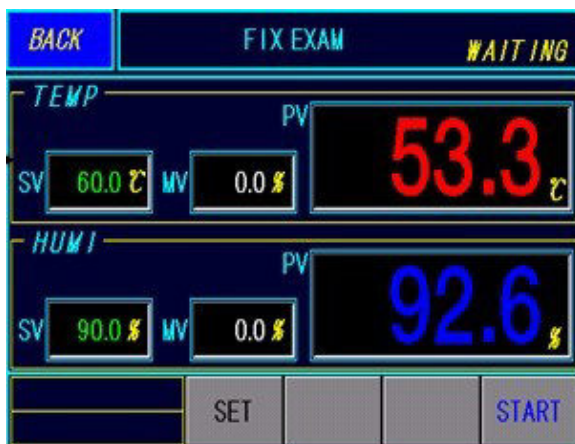
Right



Electrical system



Refrigeration system



Controller



Working room

Specifications

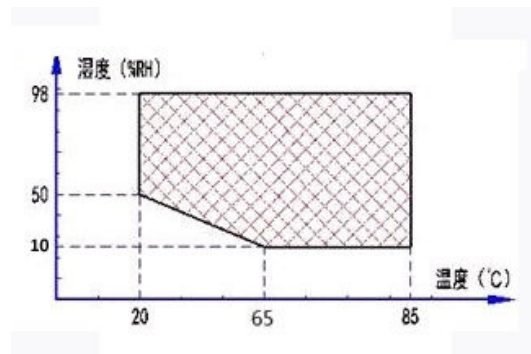
Model	BT-27 L2 /L4 /L7	BT-50 L2 /L4 /L7	BT-74 L2 /L4 /L7
Temperature range	-20 ~ +180°C (L2)	-40 ~ +180°C (L4)	-70 ~ +180°C (L7)
Temperature fluctuation	±0.5°C		
Temperature uniformity	±2.0°C		
Heating rate	3.0 °C/min		
Cooling rate	2.0 °C/min		
Temperature sensor	Pt100		
Humidity range	10% ~ 98%R.H		
Humidity fluctuation	±2.0%R.H		



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Humidity uniformity	±2.0%R.H		
Humidity sensor	Wet and dry bulb		
Testing capacity	27 Liter	50 Liter	74 Liter
Working room size (W×H×D)	300×300×300mm	370×370×370mm	420×420×420mm
External size (W×H×D)	520×1000×950mm	590×1070×1020mm	640×1200×1100mm
Weight	160 kg	180 kg	200 kg
Internal materials	SUS304 stainless steel		
External materials	Cold rolled steel plate with electrostatic praying		
Controller	PLC controller / Touch screen input		
Refrigerant	R404A		
Cooling way	Air cooling		
Compressor	Tecumseh / Copeland		
Fan	Wheel shaft fan		
Heater	Nichrome heater		
Insulation materials	PURF		
Test hole	2 pcs with 50mm diameter (Left and right)		
Test shelf	2 pcs test shelves, stainless steel materials		
Move wheel	4 pcs move wheels and 4 pcs holders		
Observation window	Double insulated glass Windows		
Observation light	1 pc		
Protection functions	Over-load, Over-heat, Over-pressure, Over-current, Short-circuit		
Power supply standard	According to the customers' requirements		

Temperature & Humidity graph



Humidity dry & Wet bulb sensor





Main components

Temperature controller	C-300
Compressor	Tecumseh French/Copeland Germany
Oil Separator	ALCO Italy
Plate heat exchanger	ALFA LAVAL Sweden
Pressure switch	Danfoss USA
Dry filter	Sporlan USA
Magnetic valve	CASTO Italy
Wire protection switch	Schneider
AC Contactor	Schneider
AC relay	Schneider
Interior	SUS304 stainless steel China
Refrigerant	Dupont USA
Thermal overload relay	Schneider
Buzzer	Schneider
Fluorescent Lamp	Philips
Control transformer	CHINT

If you need the technical support, please contact: support@tri-tronixs.com