Introduction

Name: ZL-6004B programmable constant temperature and humidity testing machine



Machine is made of stainless steel:

powder paint outside the box

Equipment summary:

 Tel: <u>+86-769-8928 0588</u>
 Fax: <u>+86-769-8928 0988</u>

 Website: <u>www.zltester.com</u>
 E-mail: <u>Zhongli@zltester.com</u>

ZhongLi Instrument Technology Co., Ltd.

The machine 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.

Features:

- 1.High-texture appearance, the surface handled through the matte stripes, and use of planar non-reactive handles, easy to operate, safe and reliable.
- 2.Rectangular complex glass window can be viewed the testing sample, windows with anti-sweat heater device that prevents water vapor condensation, and high-brightness PL light.
- 3. Double-insulated airtight container, which can effectively isolate the internal temperature of leakage.
- 4. With an external water supply system can be easy to supply water and automatically reuse.
- 5. Compressor circulatory system from French "Taikang", more effective removal of oil between the condenser and the capillary and use environmentally refrigerants (R23, R404, R507).
- 6.Controller imported LCD display screen can be displayed measuring values and setting the value and time.
- 7. Controller with multi-segment program edited, temperature and humidity can be controlled quickly (OUICK) or slope (SLOP).
- 8.Built-in mobile pulley easy to move and has a strong positioning screw fixed position

Corresponding standard:

1.International Electrotechnical Commission Standard:

IEC68-2-03_test method Ca_Steady damp-heat

IEC68-2-01_test method A_cold

IEC68-2-02_test method B_dry heat

2. Military Standards:

MIL-STD-810F-507.4 humidity

MIL-STD-810F-501.4 high temperature

MIL-STD-810F-502.4 low temperature

MIL-STD883C test method 1004.2 temperature and humidity cycling test

MIL-STD810D test method 502.2

MIL-STD810 test method 507.2 procedure 3

3. Japanese Industrial Standard:

JIS C60068-2-3-1987 test method Ca: Steady damp-heat

JIS C60068-2-2-1995 test method B:dry heat

JIS C60068-2-1-1995 test method A:low temperature

4. USA Semiconductor Industry Standard:

JESD22-A101-B-2004 Constant temperature and humidity test

JESD22-A103-C-2004 High Temperature Storage Test

JESD22-A119-2004 Low Temperature Storage Test

5. Chinese National Standard:

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GB11158 Technical conditions for high-temperature testing box

GB10589-89 Technical conditions for low-temperature testing box

GB10592-89 Technical conditions for high and low temperature testing box

GB/T10586-89 technical conditions for humidity testing chamber

GB/T2423.1-2001 Low-temperature testing methods

GB/T2423.2-2001 High-temperature testing methods

GB/T2423.3-93 Testing Method for humidity Test Chamber

GB/T2423.4-93 Alternating hot and humid testing method

GB/T2423.22-2001temperature testing method

6. China's National Military Environment Test Equipment

GJB150.3 high-temperature testing

GJB150.4 low-temperature testing

GJB150.9 hot and humid condition testing

Applicable industries:

Applied to control the product quality, such as electronic, plastic products, electrical appliances, instruments, food, vehicles, metals, chemicals, building materials, aerospace, medical care and so on.

Detailed parameters:

model	ZL-80 (A~G)	ZL-150 (A~G)	ZL-225 (A~G)	ZL-408 (A~G)	ZL-608 (A~G)	ZL -800 (A~G)	ZL-1000 (A~G)
Inside size WxHxD (cm)	40x50x40	50x60x50	50x75x60	60x85x80	80x95x80	100x100x80	100x100x10 0
Outside size WxHxD (cm)	90x136x9 4	100x146x10 4	100x161x11 7	110x171x13 7	130x181x13 7	150x186x13	150x186x15
Temperatur e range	-70℃~+100℃(150℃) (A:+25℃ B:0℃ C:-20℃ D:-40℃ E:-50℃ F:-60℃ G:-70℃)						
Humidity range	20%~98%R.H.(10%-98%R.H/5%~98%R.H is the specific condition)						
Accuracy/ uniformly	±0.1℃;±0.1%R.H./±1.0℃;±3.0%R.H.						
Accuracy / volatility	±1.0℃;±2.0%R.H./±0.5℃;±2.0%R.H.						
Heating / cooling time	About 4.0℃/min; about 1.0℃/min (5~10℃/mm is the specific condition)						
material	Stainless steel SUS 304#						

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Insulation material	High-temperature high-density amino acid ethyl ester foam insulation materials,			
Cooling system	Air-cooled/ single-stage compressor(-20℃) , wind, water cooled/two-stage compressor(-40℃~-70℃)			
protection	compressor overload switch, high and low pressure protection switch, over-humidity-temperature protection switches, fuses, warning system			
accessories	recorder(purchase)、view window、50mm testing hole、PL lamp、clapboard、Dry and wet gauze ball			
controller	TEMI300 digital controller from South Korea			
compressor	France Tecumceh			
power	1Ф 220VAC±10% 50/60Hz & 3Ф 380VAC±10% 50/60Hz			

Detailed Configuration and function of software:

A. wind circulative system

- 1.Using multi-wing centrifugal Rewind fans, strengthen the axis is made of aluminum alloy in order to attain loop forced convection
- 2. Stainless steel added long axis
- 3. Stainless Steel Multi-blade centrifugal wind wheel

B.water Supply system

- 1.with water tank at the back
- 2.automatically supply water
- 3.warning for the shortage of water

C. cooling system (diego-style, single machine, refrigerator;)

- 1.compressor: France"Tecumceh "Hermetic Refrigeration Compressor TFHK2522K two unit
- 2.refrigerator: Air-cool condenser coil
- 3. Evaporator: pomfret Chip Multi-Segment
- 4.Other Accessories: Imported desiccant cooling, Freon-borne window, the U.S. oil-water separator
- 5. Expansion System: Italian expansion valve

D.Temperature and humidity control system

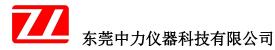
1. Control Specifications: Original South Korea TEMI880 color LCD touch screen in English and Chinese

Accuracy: \pm 0.5 °C \pm 1% R.H Resolution: 0.1 °C 1% R.H

- 2. Functions can accommodate memory 999 program, optional single-stage control or multi-segment program control, operating as a functional form model, can be directly programmed and solid curve of function and the RS-232 communication interface.
- 3.connect with computer, directly monitored by the computer to operate program, it also records temperature data and print! (Need anther purchase)

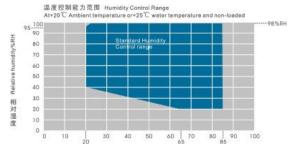
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- 4.The main components of the system is equipped with a safe inspection and interface devices, when an fault occurs, immediately through the LCD to display fault status and cut off the power
- 5. With the cumulative operating time, display the run time
- 6.Sensor: PT100 Sensor
- 7. Temperature and humidity control diagram attached



E.Standard Accessories

- 1 two groups adjustable shelf board made of stainless steel, the distance can be arbitrarily changed
- 2. Perspective vacuum glass windows, explosion-proof type
- 3. Wide-angle lighting, using energy-saving high-efficiency fluorescent lights
- 4. The machine is equipped with 4 group adjustable fixed wheel axle and control indicator light
- 5. a pair of Φ50mm hole for testing

Power:

Three-phase 380V ± 10% Power frequency: 50Hz ± 2% 4KW

Information and services

- 1. To provide equipment drawing, electrical schematics, electrical wiring diagram, consume parts, operating manuals and other technical information, copy of two, and to provide essential technical information.
- 2. Trained how to operate and maintain the equipment, so the staff grasp to the skill of of equipment.
- 3. Equipment, one year warranty for free maintenance service: after one year provide the accessories for paying costs price.

ZL-6004B following list of the programmable constant temperature and humidity testing machine:

Structur e	material	Model	From	description
box	Shell	Stainless steel SUS304B	import	Antirust
	Liner	Stain steel SUS304B	import	Antirust

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insulation		Rigid polyurethane foam, ultra-fine glass fiber	Hongkong	insulation	
	Door	Stainless steelSUS304B	import	Good sealing performance	
View window Frame		38026 insulating glass		Observed the testing sample	
		Stainless steel ring	export	Diameter 8mm	
	Testing hole	Diameter 60MM		Wire through directly	
Heating system	Heating pipe	Stainless steel heat sink	Hongkong	Storage's temperature rise up	
Air					
circulatio	fan	YYF100-25-4S	Japan	Storage back to ring	
n system					
	compressor	CAJ2464	France	cooling	
Cooling	Condenser	Tecumceh	France	Storage back to ring	
Cooling	Coolant	R23/404/environmentally	United States	cooling	
	electromagneti c valve	1028/3 Castor	Italy	Refrigerant opening and closing	
system	Expansion valve	TY2 Danfoss	United States	Refrigerator throttling	
	filters 0835 Danfoss		United States	Filter oxide cooling pipe	
Humidity system	Humidity tube	Stainless steel	304 import	The effective protection of laboratory humidity	
	Humidity box Made by oneself		mport	Provide temperature	

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