YUYANG INDUSTRIAL CO., LIMITED
China Manufacturer of Fire Testing Equipment

Electronic Hot And Cold Temperature Test Chamber Thermal Shock Test Chamber CE Approved

- **Product Details:**
- Place of Origin: **China**
- Brand Name: **YUYANG**

- Certification: **CE UL ISO**
- Model Number: **YY1011**
- **Payment & Shipping Terms:**
- Minimum Order Quantity: **1 set**
- Price: **Negotiation**
- Packaging Details: **Plywood Box**
- Delivery Time: **15-20 work days**
- Payment Terms: **T/T L/C Western Union**
- Supply Ability: **2 sets per month**
- Share to：

Electronic Hot and Cold Temperature Thermal Shock Environmental Test Chamber

Description:

Electronic Hot and Cold Temperature Shock Simulate Test Machine is divided into high temperature area, low temperature area and test area three parts, each area is a unique insulation structure, so doing hot and cold impact test. High-temperature impact test or low-temperature impact test, the maximum time is up to 9999 minutes, the most cycle time is up to 9999 times. The machine can be automatically or manually cycle the impact or selectively set the two areas or three areas to impact of hot and cold. It used binary cooling system that is very effectiveness for cooling, the cooling system is divided into the air-cooled and water-cooled. It also can be connected with a computer, but the record instrument is only for optional purchase. Color LCD touch-control operation interface with Chinese and English, easy to operate.

Specifications:

System	Two-zone test by means of damper switching
	Three-zone chamber

Model			YY1011-50A/YY1011-50W	YY1011-100A/YY1011-100W	Customized
Performance	Test area	High temp. exposure range*1	+60~ to +200°C		
		Low temp. exposure range*1	-65to 0 °C		
		Temp. fluctuation *2	±1.8°C		
	Hot chamber	Pre-heat upper limit	+200°C		
		Temp. heat up time*3	Ambient temp. to +200°C within 30min		
	Cold chamber	Pre-cool lower limit	-65°C		
		Temp. pull down time*3	Ambient temp. to -65°C within 70min		
	Temp. recovery (2-zone)	Recovery conditions	Two-zone: High temp. exposure +125°C 30 min, Low temp. exposure -40°C 30 min; Specimen 6.5 kg (specimen basket 1.5kg)		
		Temp. recovery time	Within 10 min.		
Construction	External material		Cold-rolled rust-proofed steel plate		
	Test area material		SUS304 stainless steel		
	Door*4		Manually operated door with unlock button		
	Heater		Strip wire heater		
	Refrigeration unit	System*5	Mechanical cascade refrigeration system		
		Compressor	Hermetically sealed scroll compressor		
		Expansion mechanism	Electronic expansion valve		
		Refrigerant	High temp side:R404A, Low temp side R23		
	Cooler		Stainless steel welded plate heat exchanger		
	Air circulator		Sirocco fan		
	Damper driving unit		Air cylinder		
Fittings			Cable port with diameter 100mm on the left side (right side and tailor made diameter size are available as options), specimen power supply control terminal		
Inside dimensions (W x H x D)			350 x 400 x 350	500 x 450 x 450	Customized
Test area capacity			50L	100L	Customized
Test area load			5 kg	10 kg	Customized

Outside dimensions (W x H x D)		1230 x 1830 x 1270	1380 x 1980 x 1370	Customized
Weight		800kg	1100kg	N/A
Utility requirements	Allowable ambient conditions		+5~30°C	
	Power supply		AC380V, 50/60Hz, three phase , 30A	
	Cooling water supply pressure*6		02~0.4Mpa	
	Cooling water supply rate*6		8m³ /h	
	Operating cooling water temp. range		+18 to 23 °C	
	Noise Level		70 dB or lower	

Notes:

1. If the high-temp exposure range lower limit + 60°C is required or the low temp exposure range lower limit -60°C, please select the “ambient-temperature exposure” option
2. If the temp fluctuation need to below ±1.8°C please select the “Low temp fluctuation package”
3. Temperature heat-up/pull down time are applicable only during independent chamber operation
4. If the automatically operated sliding door required, please select the “Automatically door package”
5. Air-cooled condenser / Water-cooled condenser both available

6. Apply on water-cooled condenser only

Safety Devices of Hot and Cold Temperature Shock Simulate Test Machine:
1. Hot chamber overheat protection switch
2. Cold chamber overheat protection switch
3. Air circulator overload alarm
4. Refrigerator high/low pressure protector
5. Compressor temperature switch
6. Air pressure switch
7. Fuse
8. Water suspension relay (water-cooled specification only)

9. Compressor circuit breaker
10. Heater circuit breaker
11. Test area overheat/overcool protector
12. Air purge valve

Control

(Color LCD interactive touch-screen system)

Operation and settings simplified by the use of a touch-screen LCD display (instructions displayed on-screen). At-aglance confirmation of test patterns, test area temperatures, temperature cycles, and trend graph displays.

Setting	Interactive key input by touch panel
Display	LCD (5.7 inches)
Temperature control function	Test area: exposure temp. Hot chamber: pre-heating temp. Cold chamber: pre-cooling temp.
	PID control
Preset temperature range	High temperature: 60 to200’C Low temperature: -78 to 0’C
Setting resolution	1’C
Input	Thermocouple type T (Copper/Copper-Nickel)
Setting and indication ranges	Preset time: 0 min. to 99 hours and 59 min. Preset cycle: 1 to 9,999 cycles
Accessory function	Timer preset Overheat/ overcool protection Power failure/ recovery selection Temperature recovery time setting Program memory Automatic power shut-off Programmed time display Test completion mode selection Trend graph

	Alarm history display Sensor calibration RS-232/ USB communication