

Address: 417, Shatian Section, Gangkou Road, Shatian Town, Dongguan, Guangdong, China Web.:https://www.tempcyclechamber.com/

UV Aging Test Machine

Product Technical Specifications



The pictures are for reference only, the actual product shall prevail

XHONG ZHI 公志检测仪器

Address: 417, Shatian Section, Gangkou Road, Shatian Town, Dongguan, Guangdong, China

Dongguan, Guangdong, China Web.:https://www.tempcyclechamber.com/

1. Overview:

1.1 Product Usage

This product uses fluorescent ultraviolet lamps that can best simulate the UV spectrum of sunlight, and combines temperature control, humidity supply and other devices to simulate factors such as sunlight (UV segment) high temperature, high humidity, condensation, dark cycle, etc. that may cause discoloration, brightness, strength decline; cracking, peeling, powdering, oxidation and other damages to materials. At the same time, through the synergistic effect between ultraviolet light and moisture, the single light resistance or single moisture resistance of the material is weakened or invalidated, so it is widely used to evaluate the weather resistance of materials.

1.2 How it works

This testing machine uses imported fluorescent UV lamps as light sources, and conducts accelerated weathering tests on materials by simulating UV radiation in natural sunlight, condensation and rain at night, to obtain the results of material weathering resistance. It helps you select new materials, improve existing materials, and evaluate how changes in formulas affect product durability.

1.3 Test sample restrictions

This test equipment is prohibited from testing samples of flammable, explosive, and volatile substances; testing and storing samples of corrosive substances; testing and storing biological substances; and testing and storing samples of strong electromagnetic radiation sources.

2. Equipment performance technical parameters

1.	Volume, weight, dimensions and specifications		
1.1	Product Name	UV aging test machine	
1.2	Product Model	CZ-UV-1C	



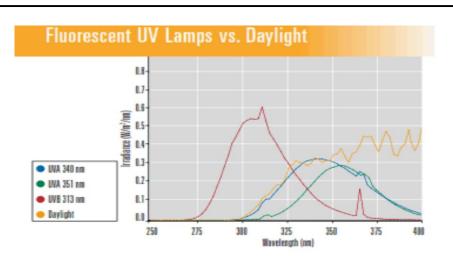
1.3 Sample rack frame	110 × 310 (mm) W×H Total: 24 pcs		
size			
1.4 Cutting size	75 × 150*2 (mm) W × H		
	Each sample rack can hold 2 samples, and 48 samples can be tested at		
	the same time.		
1.5 Shape space	Approx. 1300 × 1480 × 550 (mm) W × H × D		
1.6 weight	About 80 kg		
	≤70db measured in front of the machine, 1 meter away from the		
1.7 Working noise	machine and 1.2 meters above the ground		
2. Device power, current	and power supply		
2.1 Total power of	5.6 KW		
machine			
2.2 Maximum current	17A		



	AC 220V single-phase two-wire + protective grounding; voltage	
	fluctuation range allowed is ±10%V;	
	The frequency fluctuation range is 50±0.5Hz; TN-S power supply or TT	
	power supply	
2.3 Power supply	The grounding resistance of the protective ground wire is less than 4Ω	
conditions and power	The user is required to configure an air or power switch of	
supply	corresponding capacity for the equipment at the installation site, and	
	this switch must independently control the use of this equipment.	
	When placing powered samples in the chamber, the sample power	
	supply must use an external power supply, and the power supply of	
	this machine must not be used directly;	
3. Main technical parame	ters of the equipment	
3.1 Light temperature	50 ∼ 70 °C	
range	30 × 70 C	
3.2 Condensation	RT∼ 60°C	
temperature range	KI' 5 00 C	
3.3 Humidity range	Condensation cycle ≥ 85% RH; irradiation cycle ≤ 75% RH	
3.4 Lamp center distance	70mm ± 2mm	
3.5 Distance between	50±3 mm	
sample test surface		
and lamp center		
3.6 Nozzle quantity	4 in front and 4 in back, 8 in total	
3.7 Spray pressure	70 \sim 200Kpa adjustable	
3.8 Lamp tube length	1220mm	
3.9 Lamp power	40W/piece	
3.10 Lamp life	More than 1600h	
3.11 Number of lamps	4 in front and 4 in back, 8 in total	

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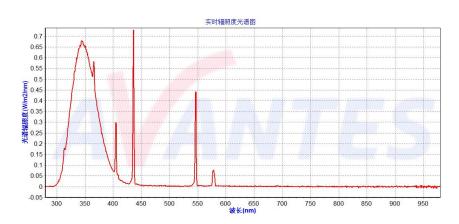
3.12 UV-B lamp irradiation distribution diagram



- 3.12.1 Standard machine irradiation intensity 0 $^{\sim}$ 1.0W/m 2 .313nm adjustable
- 3.12 .2 When the irradiation intensity is greater than 1.0W/ m^2 .313nm, a special lamp tube is required (non-standard customization)

Note: UV-B lamp is optional. Please indicate when placing an order. If no indication is given, UV-A lamp will be installed by default.

3.13 UV-A lamp irradiation distribution diagram



- 3.13.1 Standard machine irradiation intensity 0 $^{\sim}$ 1.2W/m 2 .340nm adjustable
- 3.13.2 When the irradiation intensity is greater than 1.2W/m ² 340nm requires a special lamp (non-standard custom-made)

Note: UVA lamps are mainly used to simulate the ultraviolet part of outdoor sunlight. If no instructions are given when placing an order, UV-A lamps will be installed by default.



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	Temperature resolution: 0.01°C	
2.14 Combuol consumos:	Light temperature deviation: \pm 2 $^{\circ}\mathrm{C}$	
3.14 Control accuracy	Condensation temperature deviation : \pm 2 $^{\circ}\mathbb{C}$	
	Light intensity deviation: ± 15%	
245 11 11	Irradiation temperature RT → +70 °C≤ 45 min	
3.15 Heating rate	Condensation temperature RT → +60 °C ≤ 45 min	
3.16 Light temperature		
range	50 ∼ 70 °C	

- 4. Products meet test conditions and implementation standards
- 4.1 GBT16422.1-2006/ISO 4892-1:1999 General principles for laboratory light source exposure test methods for plastics
- 4.2 GB/T 16422.3-2014/ISO 4892-3:2006 Plastics laboratory light source exposure test method Part2: Xenon arc lamp
- 4.3 GB/T14522-2008 Test method for artificial weathering of plastics, coatings and rubber materials for mechanical industrial products Fluorescent UV lamp
- 4.4 GB/T23987-2009/ISO 11507:2007 Artificial weathering exposure of paint and varnish coatings (UV)
- 4.5 ASTM G154-2006
- 4.6 ASTM G153
- 4.7 GB/T9535-2006/IEC 61215:2005 Terrestrial crystalline silicon photovoltaic modules Design identification and finalization (Part 10.10 Ultraviolet pretreatment test)
- 5. Equipment structure



5.1 Test	chamber	The lamps are evenly arranged on both sides to ensure that the tested
structure lay	out	parts are evenly irradiated and the effect is obvious.
		The depth of the water tank is 25mm, and the water depth can be
		controlled
		The test sample frame is made of stainless steel welding
		The test sample is fixed by spring buckle, which is easy to install.
		Fixed casters and foot cups are installed at the bottom of the test
		chamber to facilitate movement and positioning
		The electrical control box is located on the top of the equipment for
		easy operation
		The water supply mode can be selected in manual or automatic mode,
		which is easy to use
		Special isolated radiant heating device and air supply system to ensure
		uniform heat in the test space
		The surface of the test sample directly forms the inner wall of the test
		chamber, and condensation is more
		Specially made spray device and automatic sprinkler, water pressure
		can be adjusted
		The box cover is a two-way flip type, easy to open and close
5.2 Drainage hol	es	The bottom of the inner box is equipped with a drainage hole, a
	manual drainage valve and an overflow hole to quickly dra	
		water.
		Made of SUS304# stainless steel plate, cut by precision laser cutting
5.3 Inner box ma	aterial	equipment and bent by CNC folding machine, then fully welded by
		argon arc welding, and polished; the steel plate is 1.2mm thick



It adopts cold-rolled steel plate, cut by precision laser cutting equipment and bent by CNC folding machine, then welded by argon arc welding, and polished and polished. After the surface of the steel plate is pickled and rust-removed, the surface is treated with high-temperature baking paint. Compared with the usual surface spraying treatment, the appearance is more beautiful and its anti-corrosion and anti-rust performance are enhanced. The steel plate is 1.2mm thick (the color of the box body is dark gray and the box door is sky blue), and it can also be made of SUS304# stainless steel plate. Note: If the outer box needs to be made of stainless steel, please indicate this when placing an order. If this is not indicated, the outer box is made of cold-rolled steel plate with baking varnish. Social Panel A light intensity monitoring hole is set in the center of the sample test area on the front and back sides of the box. A handheld irradiation intensity and light intensity detection LCD touch screen programmable controller , lamp ammeter , lamp voltmeter , light intensity adjustment knob, light accumulation timer, power switch, RS-232 communication interface Social Panel Frinch LCD touch screen temperature controller, resolution 800 *480; Separately control the irradiation temperature, condensation temperature, irradiation time, condensation time, spraying time and working cycle of the controller Controller Human-machine interface, touch input Human-m					
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6. Electrical control system 7-inch LCD touch screen temperature controller, resolution 800 *480; Separately control the irradiation temperature, condensation temperature, irradiation time, condensation time, spraying time and working cycle of the controller Human-machine interface, touch input	5.6 Control Panel	voltmeter , light intensity adjustment knob, light accumulation timer,			
7-inch LCD touch screen temperature controller, resolution 800 *480; Separately control the irradiation temperature, condensation temperature, irradiation time, condensation time, spraying time and working cycle of the controller 6.2 Temperature input Human-machine interface, touch input		power switch, RS-232 communication interface			
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and working cycle of the controller 6.2 Temperature input Human-machine interface, touch input		temperature, irradiation time,			
6.2 Temperature input Human-machine interface, touch input		condensation time, spraying time			
Human-machine interface, touch input		and working cycle of the controller			
mode mode	6.2 Temperature input				
	mode numan-machine interrace, touch input				



	Available program quantity: Maximum 120 groups, 1 program can be	
	composed of 1 to 99 segments	
	Available memory capacity: 1200 segments, commands can be	
	executed repeatedly : each command can be executed up to 999	
	times, the program slope setting can be set by the time axis, programs	
	can be set to be linked for use, and the program creation adopts a	
6.2 Barrers	simple conversational operation	
6.3 Program capacity and	With editing, clearing, inserting and other functions, 4 groups of time	
control functions	signal output control (can control the ON/OFF action of the object to	
	be tested)	
	It has 9 groups of PID parameter settings, and has the functions of	
	skipping and holding during program execution. It can display curves	
	and collect data; it has the functions of date and time adjustment; it	
	has the functions of button and screen lock (LOCK) and can be	
	connected to a computer for use	
	RS-232 communication interface, can be used as monitoring and	
6.4 communication	remote control system, record test data	
	USB 2.0 interface can directly use USB flash drive to record test data	
6.5 How it works	has the functions of button and screen lock (LOCK) and can be connected to a computer for use RS-232 communication interface, can be used as monitoring an remote control system, record test data	
6.6 Setting method	Chinese / English interface, touch input	
6.7 Setting range	Maximum temperature range upper limit 5 $^{\circ}\mathrm{C}$	
6.8 Display resolution	Temperature: 0.01 °C; Light intensity 0.01W /m2 ⋅ time: 1min;	
6.9 Power off memory		
function	Power failure recovery mode can be set as: hot start / cold start / stop	
6.10 Scheduled	The start time can be set at will, and the machine will automatically	
startup function	run when the time is up after turning on the power.	
6.11 Temperature	1 0 3 3 3 7 7 3	
measuring body	PT100 platinum resistance	



6.12 Irradiance measurement	Photoelectric conversion irradiance meter, monitors the irradiance intensity of the lamp, measuring wavelength range 300~400nm, peak value 340nm /313nm	
6.13 Curve recording function 6.14 Software usage environment	Battery-protected RAM can save the device's set values, sampling values, and sampling time; the maximum recording time is 60 days (when the sampling period is 1.5 minutes) IBM PC compatible computer, CPU P II or above, memory 128M or above, Simplified Chinese Windows 2000 or Simplified Chinese	
6.15 Heater	Windows XP , win10 /win11 system Imported nickel-chromium alloy electric heater Heater control mode: contactless equicycle pulse width modulation, SSR (solid state relay)	
6.16 humidifier	Imported nickel-chromium alloy electric heater External humidification method	
6.17 Lighting fan	Micro blower transfers the heat to the test space to ensure uniform heating of the sample	
6.18 Light intensity adjustment	Dimmable electronic ballast automatically adjusts the lamp power according to the light intensity to achieve constant light intensity	
6.19 Fault self- diagnosis	When the test chamber fails, it will automatically alarm and cut off the power supply, and display the corresponding alarm information on the human-machine interface	
7. Water supply system		
7.1 Water supply method	Automatic/manual dual water supply mode	



7.2 Water supply requirements	To ensure the water requirements for equipment spraying and humidification, the water supply pressure of the equipment is 0.2 $^{\sim}$		
	0.4Mpa , the water supply pipe diameter is $\Phi 20 \text{mm}$, and the water		
	quality must meet the second-level or above water standards specified		
	in GB/T 6682-2008 Water Specifications and Test Methods for		
	Analytical Laboratories		
	The booster pump increases the water supply , and the water supply		
	pipeline is equipped with a pressure regulating valve and a water		
7.3 Spray water supply	pressure gauge to achieve a constant pressure and constant flow water		
	supply mode.		
8. Safety protection syste	m		
8.1 Test Chamber	Extreme over-temperature protection, water shortage protection		
8.2 Booster pump	Water shortage protection, water pressure over-high protection		
8.3 Heating system	Heating tube dry burning, abnormal water supply, abnormal drainage		
8.4 power supply	Leakage protection, overload and short circuit protection		
8.5 Light fan	Fan overload , fan short circuit , fan reverse protection		
9. Factory-provided equip	9. Factory-provided equipment and information		
9.1 1 copy of the equipme	9.1 1 copy of the equipment factory packing list		
9.2 1 copy of equipment 6	electrical schematic diagram		
9.3 1 device instruction m	anual		
9.4 1 equipment certificat	te		
9.5 1 piece equipment wa	rranty card		
9.6 1 copy of equipment f	actory inspection report		
9.7 5 pieces of wet gauze	2.7 5 pieces of wet gauze		
9.8 1 piece controller monitoring software CD			
9.9 1 set of test sample bracket			
10. Environmental conditions for use and installation site requirements			



1、The ambient temperature is 5-30°C and the relative humidity is ≤85%RH;	
2、The installation site must be a flat and vibration-free ground;	
3. The equipment must be kept away from heat sources and	
flammable and explosive substances;	
4. The installation location should not be exposed to direct sunlight	
and indoor air circulation should be maintained;	
5. The equipment installation site must be clean and cannot be	
installed in dusty places or near dust outlets.	
The equipment environment temperature should be kept within 0 $^{\circ}\mathrm{C}$ \sim	
+45℃	
When the ambient temperature is below 0° C (when the equipment is	
stopped for a long time), the water in the equipment should be drained	
to prevent the water in the pipe from freezing and damaging the pipe.	
The ground is flat and well ventilated,	
free of flammable, explosive,	
corrosive gases and dust, there is no	
strong electromagnetic radiation	
source nearby;	
Site ground load-bearing capacity: not	
less than 600kg/m2;	
Allow adequate maintenance space	
around the equipment.	
A: not less than 600mm	
B: not less than 600mm	
C: not less than 1100mm	
≤ 2 3 f ∠ 6 5 i T + \ S t T f C S	



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11. Main spare parts list

Share ha	1 (3 113)		
No.	Product Name	Brand	QTY
13.1	Program Controller	Zhongzhi	1 unit
13.2	Light intensity meter	Beijing Normal University	1 set
13.3	Test chamber	Zhongzhi	1 unit
13.4	Test sample rack	Zhongzhi	1 set
13.5	UV lamp	Atlas, USA	8
13.6	Dimmable Ballast	Philips,Netherlands	4
13.7	Cooling fan	SUNON,China	2
13.8	Heating blower	Yutian,China	1 unit
13.9	Temperature limiter	Rainbow,Korea	3
13.10	Radiation heating tube	Weide,China	1 piece
13.11	Condensation heating tube	Weide,China	2
13.12	Spraying device	Zhongzhi	1 set
13.13	Sprinkler pump	Lingxiao Pump, China	1 unit
13.14	Solid State Relays	Carlo Gavazzi,Swiss	2 sets
13.15	AC contactor	Schneider,France	2
13.16	Intermediate relay	OMRON,Japan	6
13.17	Self-locking switch with light	Siemens,Germany	2
13.18	Temperature Sensor	American Omega	3
13.19	Spray pressure regulating valve	AirTac,Taiwan China	1
13.20	Spray pressure gauge	China Brand	1
13.21	Solenoid valve	AirTac,Taiwan China	2
13.22	Liquid level switch	China Brand	3
13.23	Timer	China Brand	2
13.24	Water tank	Zhongzhi	1
13.25	Other	China Brand	1 batch



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12. Equipment structure layout diagram

