Help You Make Safe And Reliable Products Products That People Can't Leave Everyday







Aim To Be The World's Safest Environmental Test Chamber

www.sanwood.cc www.sanwood.com



COMPANY PROFILE

SANWOOD was founded in 1995 with Taiwanese technology and increased its capital to plan for a public listed company in 2013. Guangdong Sanwood Technology Co., Ltd was incorporated. The company focused on the most secure and reliable technologies for environmental test equipments and the overall solutions for the laboratories. It is a national high-tech enterprise, became a permanent member of National Aerospace Systems Science & Engineering Research Institute executive director and achieved ISO9001: 2015 quality system certification along with CE certification.

SANWOOD formed foreign trade branch with a professional sales and marketing team and with service specialists to handle all oversea after-sales services, products now are exporting to more than 60 countries and regions (Austria,Belgium,Czech,Croatia,Denmark,France,Germany,Hungary, Italy, Netherlands,Poland,Russia,Sweden,Switzerland,Spain,Turkey and etc).



Simulate Various Environmental Conditions:

Polar Cold	In extremely cold conditions, mechanical cooling is used to cool the system to -85°C, cooling with LN 2 (liquid nitrogen) to a temperature as low as -184°C, even rapid temperature change is able to achieve.
Extreme Heat	Extremely high temperature: the maximum temperature can reach up to +180°C, and the higher temperature range can be customized according to customer's requirements.
Humidity	Humidity environment: relative humidity ranges from 20% RH to 98% RH. If the low humidity option is added, lower relative humidity can be achieved.
Altitude	Low air pressure: simulates an altitude of 30,000 meters, or by options to an altitude of 60,000 meters.
Vibration	Vibration integrated system: the integrated environmental test chamber has temperature and humidity test functions, it can also be an integrated test system with an electromagnetic vibration table and a mechanical vibration table interface.







We have never stopped our pace to be as an earlier domestic company specializing in the field of environmental testing equipments, we insist on the reliability test technology research,product development as our core, no matter what the needs from our customers, we will provide them a perfect solution.

From the past to the future, we are as always to continue to be innovative and creative.



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SANWOOD HONORED CERTIFICATES













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CUSTOMER REFERENCE CASES





Our Products And Services

Focusing on the innovation of Environmental reliability test.



Battery Environmental Reliability Test

Temperature humidity chambers simulate a range of temperature and humidity conditions to test component and products, especially for those exposed to outdoor temperature and humidity conditions, such as electronics, energy storage, material processing, solar lighting, vehicle parts and etc.

SANWOOD test chambers are mainly configurated with international famous brand components, ensure they provide reliable performance and work continuously without defect. Our advanced temperature control system and refrigeration technology reduce operation power consumption, saving energy up to 20% than the traditional technology.



Battery safety test

Many electronic products are around our daily life nowadays, smart phones, tablet, wearable devices, laptop, home robot and etc. The rechargeable battery, mainly Lithium-ion battery are widely adopted in such products. There is greater demand of battery safety testing from both of battery and product manufacturers. They should make sure the battery is qualified before delivering to customers.

SANWOOD dedicates to provide reliable and comprehensive solution for consumer battery safety test equipment, matching the standards complied with IEC62133, UN38.3, and UL1642. Including mechanical, electrical and temperature environment test.



Vehicle test solution

The walk-in environment simulation chamber is widely used in automobiles, metrology and testing, aerospace and defense industries.

It has high reliability requirements, wide temperature and humidity range, comprehensive environmental parameters and complicated test conditions. The operator can enter the laboratory to operate the test article; It provides conditions for temperature and humidity environmental testing for batch or large parts, semi-finished products and finished products from industrial manufacturers.

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Battery Explosion-Proof Temperature Test Chamber



Test standards:

Test specifications	Description
IEC 62660-2	Reliability and abuse test of lithium battery cells for electric vehicles
SAE J2464	Electric vehicle battery abuse test
IEC 60086-4	Primary batteries Part 4: safety of lithium batteries
UL 1642	US lithium battery safety standard
UN 38.3	United Nations lithium battery transportation test requirements
IEC 61960	Portable lithium secondary battery unit
IEC 62133	Single battery (cell) and battery pack with alkaline or non-acid electrolyte: Portable battery cells and batteries manufactured using them, safety requirements for portable applications.
UL 2054	Household and commercial batteries
IEEE 1625	Laptop rechargeable battery
IEEE 1725	Telephone rechargeable battery



Standard Configuration

- Cable port with silicon plug ϕ 100mm×2
- Internal lighting
- USB interface and history data review and converting software
- Over temperature protection
- Status indicator light

Optional Configuration

- Multi-temperature probe
- Automatic fire extinguishing CO2 device
- Explosin-proof chains
- Electronic temperature sensor

- Hydrogen induction device
- Intake and exhaust device
- Video monitoring device
- Pressure relief vent



Main Fittings And Options



Other options

Video monitoring device Intake and exhaust device Thermal protection device Hydrogen induction device

Electronic temperature sensor

Bench-top Temperature & humidity test chamber

Lightweight and compact design, the whole chamber has a very small volume and the internal volume can reach 22.5L

International standards

 Complies with the following standards:

 ISO 12100
 Safety of Machinery

 IEC 60204
 Low Voltage

 IEC 61000-6-2
 EMC

 IEC 61000-6-4
 EMC

- Compact design
- Best space use and combination selection
- Colored LCD touch screen
- Mobile app/computer remote control
- Noise as low as 50 dB





Model	SMC-22-CC
Temperature range	- 40 ~ +150°C
Humidity range	20 ~ 95% R.H.
Internal working volume	22.5 L
Internal dimensions (W x H x D) mm	300 x 300 x 250
External dimensions (W x H x D) mm	440 x 740 x 885



Ultra low temperature test chamber

Small size and wide temperature range

Temperature range: -85°C ~ +180°C

 Meets the temperature change rate specified by JTMK07 and IEC60068-3-5.

A compact high performance and reliability test chamber solution covers a wide range of temperature testing requirements from ultra low temperature -85 °C to high temperature +180 °C.

- Wide temperature range (-85°C ~ +180°C)
- Mobile APP/ computer remote control
- USB port for data storage and output
- English/Russian and other language options
- Imported well-known components





Hermetic compressors (France - Tecumseh)



Controller - South Korea SAMWON TECH



UK wiring standard



Leakage switch -Japan Mitsubishi



Metal mechanical button

Model	SM-712	SM-812	
Temperature range	- 75 ~ +180°C	- 85 ~ +180°C	
Internal working volume	64 L	64 L	
Internal dimensions (W x H x D) mm	400 X 400 X 400	400 X 400 X 400	
External dimensions (W x H x D) mm	950 x 1200 x 630	950 x 1200 x 630	

Energy-saving (platinum series) Temperature & humidity test chamber

A variety of models, well fit environmental test chamber

Meet the following test standards:					
• IEC 60068-2-1: Cold					
• IEC 60068-2-2: Dry hea	t				
IEC 60068-2-14: Change rate of c	of temperature with specified hange				
• IEC 60068-2-30: Damp h	eat,cyclic				
IEC 60068-2-38: Compos test	it temperature/humidity cyclic				
• IEC 60068-2-78: Damp h	eat,steady state				
device	crystal and solid-state display sEnvironmental,endurance and nical test				
ISO 16750-4 (5.3): Road vehicles (Temperature cycling)					





Model	SMC-80-CC	SMC-150-CC	SMC-225-CC	SMC-408-CC	SMC-800-CC	SMC-1000-CC	SMC-1500-CC
Inner volume	80 L	150 L	225 L	408 L	800 L	1000 L	1500 L
Inner chamber size (WxHxD) mm	400x500x400	500x600x500	600x750x500	800x850x600	1000*1000*800	1000*1000*1000	1200*1000*1250
Outer chamber size (WxHxD) mm	600x1590x1160	700x1665x1275	800x1870x1315	1000x1950x1410	1200x2085x1590	1200*2085*1790	1400*2050*2030
Temperature range	-70°C~180°C (A:0°C~180°C;B: -20°C~180°C; C: -40°C~180°C;D:-70°C~180°C)						
Humidity range	20.0%RH~98.0%RH						





Landing Type **Temperature Humidity Test Chamber**

The test chamber is suitable for a relatively large test product



Available in 6 different sizes, with a test zone capacity from 1000 L to 8000 L, it is ideal for solar PV module testing.



Solar photovoltaic module testing

Compatible Test Standards

- JIS C-8917 Thermal cycling test A-1
- JIC C-8938 Thermal resistance test B-1 Moisture resistance test B-2
- IEC 61215 10.11 Thermal cycling test (JIS C-8990) 10.12 Humidity-freeze test 10.13 Damp-heat test
- IEC 61646 10.11 Thermal cycling test 10.12 Humidity-freeze test 10.13 Damp-heat test
- According to the customer's test conditions, the characteristics of the cabinet can be adjusted.
- Wide temperature range (-70°C to +180°C)
- Large observation window
- Ξ. User-friendly design panel
- Can achieve remote control (Mobile app/PC)

Model	SMC-1000-CC	SMC-1800-CC	SMC-2520-CC	SMC-3600-CC	SMC-5000-CC	SMC-8000-CC		
Inner volume	1000 L	1800 L	2520 L	3600 L	5000 L	8000 L		
Inner chamber size (WxHxD) mm	1000*1000*1000	1000*1500*1200	1200*1500*1400	1200*2000*1500	1500*1800*1850	2000*2000*2000		
Outer chamber size (WxHxD) mm	1200*1550*2450	1200*2000*2650	1400*2000*2850	1400*2350*2950	1700*2150*3300	2300*2450*3600		
Temperature range		-70°C~180°C (A:0°C~180°C;B: -20°C~180°C; C: -40°C~180°C;D:-70°C~180°C)						
Humidity range	20.0%RH~98.0%RH							

Battery explosion-proof temperature test chamber

Battery test



Explosion-proof pressure relief port (optional)



Automatic fire extinguishing CO2 device (optional)



Explosin-proof chains (optional)



Multi-temperature probe (options)





Test specifications	Description
IEC 62660-2	Reliability and abuse test of lithium battery cells for electric vehicles
SAE J2464	Electric vehicle battery abuse test
IEC 60086-4	Primary batteries Part 4: Safety of lithium batteries
UL 1642	US lithium battery safety standard
UN Lithium Battery Testing	United Nations lithium battery test requirements
IEC 61960	Portable lithium secondary battery unit
IEC 62133	Single battery (cell) and battery pack with alkaline or non-acid electrolyte: Portable battery cells and batteries manufactured using them, safety requirements for portable applications.
UL 2054	Household and commercial batteries
IEEE 1625	Laptop rechargeable battery
IEEE 1725	Telephone rechargeable battery

Model	SMC-80-CC-FB	SMC-150-CC-FB	SMC-225-CC-FB	SMC-408-CC-FB	SMC-800-CC-FB	SMC-1000-CC-FB	SMC-1500-CC-FB
Inner volume	80 L	150 L	225 L	408 L	800 L	1000 L	1500 L
Inner chamber size (WxHxD) mm	400x500x400	500x600x500	600x750x500	800x850x600	1000*1000*800	1000*1000*1000	1200*1000*1250
Outer chamber size (WxHxD) mm	600x1590x1160	700x1665x1275	800x1870x1315	1000x1950x1410	1200x2085x1590	1200*2085*1790	1400*2050*2030
Temperature range		-70 C ~180 C (A: 0 C ~180 C; B: -20 C ~180 C; C: -40 C ~180 C; D: -70 C ~180 C)					
Humidity range		20.0% RH~98.0% RH (optional)					





Automobile Walk In Battery Explosion-Proof Temperature Test Chamber

According to the customer's test conditions, the characteristics of the cabinet can be adjusted.

Environmental test specifications for batteries

Test specifications	Description
IEC 62660-2	Reliability and abuse test of lithium battery cells for electric vehicles
SAE J2464	Electric vehicle battery abuse test
IEC 60086-4	Primary batteries Part 4: Safety of lithium batteries
UL 1642	US lithium battery safety standard
UN Lithium Battery Testing	United Nations lithium battery test requirements
IEC 61960	Portable lithium secondary battery unit
IEC 62133	Single battery (cell) and battery pack with alkaline or non-acid electrolyte: Portable battery cells and batteries manufactured using them, safety requirements for portable applications.
UL 2054	Household and commercial batteries
IEEE 1625	Laptop rechargeable battery
IEEE 1725	Telephone rechargeable battery



Power Battery Test





Model	SMC-080-CC -FB-WT	SMC-120-CC- FB-WT	SMC-160-CC -FB-WT	SMC-250-CC -FB-WT	SMC-340-CC -FB-WT	SMC-400-CC -FB-WT
Inner volume	8.0m ³	12.0m ³	16.0m³	25.0m³	34.0m³	40.0m ³
Inner chamber size (WxHxD) mm	1970*2100*1970	3020*2100*1970	4070*2100*1970	3020*2100*4070	4070*2100*4070	5120*2100*4070
Outer chamber size (WxHxD) mm	2170*2350*3500	3220*2350*3500	4270*2350*3500	4650*2350*4270	5720*2350*4270	5320*2350*6150
Temperature range	-70°C ~150°C (+15°C) (A:0°C ~150°C;B: -20°C ~150°C; C: -40°C ~150°C;D:-65°C ~150°C)					
Humidity range			20.0%RH	~95.0%RH		

Walk-in Type Temperature & Humidity Test Chamber



The prefabricated finished cabinet panel is suitable for any size formulation, easy to assemble and install. Imposition walk-in test chamber using 4" thick polyurethane foam board.

The plates are tightly locked to each other to form a sealed test chamber. Stainless steel, aluminum or embossed construction is available to suit different requirements.

The performance values are based on IEC60068-3-6:2001(EBE,EBL,EBR),IEC 60068-3-5:2001(EBF,EBU,EBUU)



Refrigeration system

The panels are easy to move and assemble. The tongue and groove assembly is secured by a cam lock and a silicone sealant. The embedded metal strips connect the cam latches together to create a secure, rugged unit when finished.

Model	SMC-080-CC-WT	SMC-120-CC-WT	SMC-160-CC-WT	SMC-250-CC-WT	SMC-340-CC-WT	SMC-400-CC-WT	
Internal working volume	8.0m³	12.0m³	16.0m³	25.0m³	34.0m³	40.0m ³	
Internal dimensions (WxHxD) mm	1970x2100x1970	3020x2100x1970	4070x2100x1970	3020x2100x4070	4070x2100x4070	5120x2100x4070	
External dimensions (WxHxD) mm	2170x2350x3500	3220x2350x3500	4270x2350x3500	4650x2350x4270	5720x2350x4270	5320x2350x6150	
Temperature range	-65°C ~ 80°C(+15	-65°C ~ 80°C(+15°C) (A: 0°C ~ 80°C; B: -20°C ~ 80°C; C: -40°C ~ 80°C; D: -65°C ~ 80°C) Customized version (-70~+150°C)					
Humidity range		20.0% RH~95.0% RH					



ESS Test Chamber

Surface temperature control of sample and environmental temperature control technology in test area

International standards

Meet the stress screening and lead-free process of electronic equipment products, MIL-STD-2164, MIL-344A-4-16, MIL-2164A-19, NABMAT-9492, GJB-1032-90, GJB/Z34-5.1.6, IPC-9701...and other test requirements.

- Different stress can be set to screen the temperature change rate:5°C/min、10°C/min、15°C/min、20°C/min.
- Can perform rapid temperature change (stress screening), condensation test, high temperature and high humidity, temperature and humidity cycle, etc.
- Meet the stress screening test requirements for electronic equipment products.
- Executable equal temperature and average temperature test.
- · Complete real-time test curve analysis shows no time limit.





Compressor (Germany--BOCK)



Liquid nitrogen rapid cooling effect (Optional)

Electronic temperature sensor Finland--vaisala (Optional)

Model	SM-KS-225-CC	SM-KS-408-CC	SM-KS-800-CC	SM-KS-1000-CC	SM-KS-1500-CC		
Inner volume	225 L	408 L	800 L	1000 L	1500 L		
Inner chamber size (WxHxD) mm	500*750*600	800*850*600	1000*1000*800	1000*1000*1000	1200*1000*1250		
Temperature range	-70 °C ~180	-70°C~180°C (A:5°C/min; B:10°C/min; C:15°C/min; D:20°C/min) Linear/Nonlinear					
Humidity range			20.0%RH~98.0%RH				

Two-zone Thermal Shock Test Chamber

The high-precision refrigeration system controls the cooling capacity with high precision and achieves significant energy savings

International standards

Safety Standards:Safety of machinery (ISO 12100,) Low voltages(IEC 60204,) and EMC (IEC 61000-6-2 and IEC 61000-6-4).

- Uniform thermal stress performance.
- Optimal mechanism and high efficiency refrigeration machinery design.
- Mobile APP/ computer remote control.
- Cooling mode supports air cooling and water cooling.
- Controller supports multiple languages such as Chinese/English.







Controller - SANWOOD



Metal mechanical button



Compressor - Germany BOCK



Φ100mm cable port

Model	SM-50-2P-A	SM-80-2P-A	SM-150-2P-A	SM-200-2P-A	SM-300-2P-A	SM-500-2P-A
Internal working volume	50 L	80 L	150 L	200 L	300 L	500 L
Intenal dimensions (W x H x D) mm	350x400x350	400x500x400	500x600x500	650x460x670	960x460x670	960x650x800
External dimensions (W x H x D) mm	1100x1930x1460	1150x2130x1550	1250x2530x1650	1400x2250x1850	1750x2250x1850	1750x2630x1980
Temperature impact range	-55°C ~+150°C	(A: -40°C ∼+150°C;	B: -55 ℃ ~+150 ℃;)	Recovery time: 5	~10min Transfer ti	me: 3 seconds



Three-Zone Thermal Shock Test Chamber

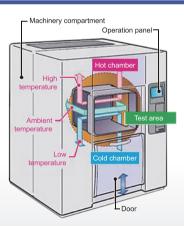
Good temperature uniformity and high test accuracy

International standards

Safety Standards:Safety of machinery (ISO 12100,) Low voltages(IEC 60204,) and EMC (IEC 61000-6-2 and IEC 61000-6-4).

- High specification professional design, meet international requirements.
- Use branded compressors with significant sound insulation.
- Meet the three-zone impact condition at room temperature air 20~35 °C, avoid test product frost condensation.
- Low error, high wind speed, uniform sample exposure.
- User-friendly controller, program setting, troubleshooting, etc.







304 stainless steel

Model	SM-50-3P-A	SM-80-3P-A	SM-150-3P-A	SM-200-3P-A	SM-300-3P-A	SM-500-3P-A
Inner volume	50 L	80 L	150 L	200 L	300 L	500 L
Inner chamber size (WxHxD) mm	350*400*350	400*500*400	500*600*500	650*460*670	960*460*670	960*650*800
Outer chamber size (WxHxD) mm	1400*1750*1750	1450*1850*1800	1550*2050*2050	1700*2000*2200	2050*2000*2250	2050*2150*2450
Temperature impact range	-55 °C ∼+150 °C	(A:-40°C~150°C	; B:-55°C ~+150°C	;) Recovery time	e : 5~10min Trans	fer time : 3s



Temperature/Humidity/Vibration Test Chamber

Applied to environmental adaptability of aerospace, marine, automotive and other electronic products

- Safe and reliable vibration.
- High performance product test.
- Cable port allow cables to be connected to products in the test box.
- South korea SAMWONTECH controller supports multi language.
- Vertical + horizontal vibration table, wider test range.





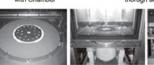
Vibration system connecting method:

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Shaker directly combined with Chamber



thorugh adapter







Shaker combined with Chamber thorugh expansion table



Model	SM-MVH-500-CC	SM-MVH-1000-CC	SM-MVH-1700-CC	SM-MVH-3400-CC			
Inner volume	500 L	1000 L	1700 L	3400 L			
Inner chamber size (WxHxD) mm	800*800*800	1000*1000*1000	1200*1200*1200	1500*1500*1500			
Temperature range		-70 C ~ 180 C (A:0 C ~ 180 C;B: -20 C ~ 180 C; C: -40 C ~ 180 C; D:-70 C ~ 180 C) Ramp rate could be customized : 5°C, 10°C, 15°C, 20°C/min					
Humidity range		20.0%RH	~98.0%RH				





Electromagnetic vibration testing machine

The EV series electromagnetic vibration tester simulates the vibration environment under laboratory conditions and tests the impact strength and reliability in various vibration test applications.

In the laboratory, the vibration tester can simulate modes such as sine, random, resonant search and dwell, typical shock and road simulation.



• Specifications

System Vlode	SM-TS10-240	SM-TS20-320	SM-TS30-445	SM-TS40-445	SM-TS50-445	SM-TS60-445	SM-TS70-445
Frequency Range (Hz)	5-3000	5-3000	2-3000	5-2600	5-2600	5-2500	5-2400
Max Sine Force (KN)	10	20	30	40	50	60	70
Max Displacement (mmp-p)	51	51	76	100	100	100	100
Max Acceleration(g)	100	100	75	90	85	100	100
Max Velocity(m/s)	1.8	2.0	1.8	1.8	2.0	2.0	2.0
Max Load(kg)	300	300	500	500	800	800	800
Shaker Model	TS300/10	TS300/20	TS500/30	TS500/40	TS800/50	TS800/60	TS800/70
Armature Weight(kg)	10	20	40	45	50	60	60
Armature Diameter (mm)	¢240	¢320	¢445	¢445	¢445	¢445	¢445
Cooling Mothod				Forced Cooling			
Shaker Weight (kg)	930	1750	2550	2550	4550	4550	4550
Power Amplifier Model	PWA10	PWA20	PWA30	PWA40	PWA50	PWA60	PWA80
Power Amplifier (KVA)	21	44	54	73	82	95	140
Power Amp. Dimensions (LxWxH) mm	1520x600x820	1660x600x820	1750x600x820	2000x1000x600	2000x1000x1200	2000x1000x600	2000x1000x2400
Power Supply			3Ф/	AC380V±10%50)Hz		
Aggregate Capacity (KW)	9	20	25	35	45	64	85



Shock / Bump Test System

• Main applications: mobile phones, computer components, optical components, connectors, etc, also used to test the shock absorbance ability of materials .

Technical Specifications

- Windows-based stable control system, full-automatic remote-control interface.
- Multi-track guide posts combined with good lubricity and noise free hydraulic balance lifting system to achieve stable shifting.
- Automatic control of lifting height with high accuracy and good repeatability.



Model Parameters		SM-10-2	SM-10-5	SM-10-25	SM-10-50	SM-10-100	SM-10-200	SM-10-400	SM-10-600	SM-10-1000	SM-10-1500
Rated L	_oad (kg)	2	5	25	50	100	200	400	600	1000	1500
Table S	ize (mm)	115×115	200×200	300×300	500×500	600×600	800×600	1000×800	1000×1000	1200×1000	1500×1200
	Half-sine	5~3k	20~2K	15~3k	15~600	15~600	15~	300		15~200	
Peak Acc. (g)	Post-peak Sawtooth		10~100	15~100	15	~200	15~100		10 [,]	~50	
	Trapezoid					15~100			15 [,]	~50	
	Half-sine	0.2~30	0.3~11	0.3~11	1~30	1~30	1~30	2~30		6~30	
Pulse Duration (ms)	Post-peak Sawtooth		1~18	1~18	3~18	3~18	3~18		6~	-18	
(113)	Trapezoid							6~18			
		450×	1000×	1400×	1600×	1700×	1700×	1900×	2000×	1900×	2200×
	imensions m)	180×	900×	120×	1400×	1500×	1500×	1500×	1500×	1800×	1800×
		2100	2200	2300	2300	2300	2300	2450	2450	2550	2550
Weigh	nt (kg)	350	550	1200	3000	3100	3800	4200	5100	7100	8500
Power AC220V AC380V±10%, 50/6 50/60Hz AC380V±10%, 50/6		10%, 50/60H	z								
Stand	Standards MIL-STD-810F, IEC68-2-27										



A-SUN Xenon lamp weathering test chamber



The A-SUN bench-top xenon lamp weathering test chamber is compact, simple and economical. It uses a low-power air-cooled xenon lamp and a mirror-reflective system to ensure that the irradiation energy in the working room is large enough and evenly distributed.

Conforms to a large number of national,international and industry standards,included but not limited to:

ASTM C1442, ASTM C1501, ASTM D3424, ASTM D5071, ASTM D6695, ASTM G151, ASTM G155, ISO 4049, ISO 7491, ISO 4892-1, ISO 4892-2.

Light source	1.8KW imported air-cooled xenon lamp or 1.	8KW domestic xenon la	amp (normal service life is about 1500 hours)				
External dimensions	950×570×535mm (W × D × H) Internal dimensions 420×310×150mm (W × D × H)						
Effective exposure area	1,000cm ² (9 pieces of 150×70mm samples can be placed at a time)						
Chinese Xenon lamp: 30W/m² ~ 100W/m² (300nm ~ 400nm) or 0.3 W/m² ~ 0.8 W/m² Irradiance (@ 340nm) or 0.5 W/m² ~ 1.5 W/m² (@ 420nm)							
setting range	Ameircan Xenon lamp: 50W/m ² ~ 120W/m ² (300nm ~ 400nm) or 0.3 W/m ² ~ 1.0 W/m ² (@ 340nm) or 0.5 W/m ² ~ 1.8 W/m ² (@ 420nm)						
Remarks	Support lighting function, no spray, no humidity, no temperature function						

E-SUN Xenon lamp weathering test chamber





Water purifying system

Conforms to a large number of national, international and industry standards, included but not limited to:

ASTM C1442, ASTM C1501, ASTM D3424, ASTM D5071, ASTM D6695, ASTM G151, ASTM G155, ISO 4049, ISO 7491, ISO 10977, ISO 11431.

Light source	1.8KW imported air-cooled xenon lamp or 1.8	8KW domestic xenon lamp	o (normal service life is about 1500 hours)					
External dimensions	925×600×1050mm (W × D × H) Internal dimensions 320×310×140mm (W × D × H)							
Effective exposure area	1,000cm ² (9 pieces of 150×70mm samples	can be placed at a time)						
Filter	UV extension filter (daylight filter or window	UV extension filter (daylight filter or window glass filter is optional)						
Irradiance setting range	Chinese Xenon lamp : 30W/m² \sim 100W/m² (@ 340nm) or 0.5 W/m² \sim 1.5 W/m² (@		3 W/m² ~ 0.8 W/m²					
to any tange	American Xenon lamp : 50W/m² ~ 120W/m² (300nm ~ 400nm) or 0.3 W/m² ~ 1.0 W/m² (@ 340nm) or 0.5 W/m² ~ 1.8 W/m² (@ 420nm)							
Remarks	Support light, spray, humidity function, no temperature function							

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B-SUN Xenon Lamp Weathering Test Chamber

Equipped with three different filter systems to obtain spectra of different energy distributions:

A. Daylight filter: simulates the spectral distribution of ultraviolet and visible light of solar radiation (equivalent to outdoor direct sunlight), and has the best correlation with most outdoor practical applications. It is used to test outdoor materials, called artificial weather aging test.

B. Window glass filter: simulates the spectral distribution of ultraviolet and visible light of the window glass after passing through 3mm(corresponding to the sunlight transmitted through the window glass). It is used for testing indoor materials, called artificial radiation exposure.



Conforms to a large number of national,international and industry specifecations,including but not limited to: AATCC TM169、ASTM C1442、ASTM C1501、ASTM D4355、ASTM D6695、ASTM G151、ASTM G155、ISO 105-B06、 ISO 105-B10、MIL-STD 810G

Xenon Lamp	One 1.8KW xenon lamp (imported from America)
External dimension	860×800×1740mm
Xenon Lamp	One 1.8KW xenon lamp (imported from America)
Adjustable Irradiance Range	0.3~0.75 W/m2 (Single point of control: 340nm) 0.5~1.35 W/m2 (Single point of control: 420nm) 30 W/m2~90 W/m2 (Full spectrum : from 300~400nm)

Q-SUN Xenon Lamp Weathering Test Chamber

Using 6.5KW high-power precision water-cooled xenon lamp, the exposed area reached 6500cm²

- · Meet all domestic and foreign xenon lamp test standards.
- The original imported Atlas xenon lamp and filter components are used to ensure the comparability and reproducibility of the test data.
- The exposed area is up to 6500cm2, and can be exposed to various shapes and sizes.
- Advanced xenon lamp cooling system and intelligent air conditioning system.
- Chinese and English operation interface conversion.



Conforms to a large number of national,international and industry specifecations,including but not limited to:

AATCC TM16-2004、AATCC TM 16.3 (2014)、AATCC TM169、ASTM C1442、ASTM D2565、ASTM D3424、ISO 12040、 VDA 75202、SAE J2412

Light source	6.5 KW water-cooled long arc xenon lamp			
External dimension	1200*1200*2000mm(WxDxH)	780*780*670mm(WxDxH)		
Effective exposure area	6500 cm ²			
Filter	ATLAS original filter; fu	utdoor solar spectrum		
Irradiance setting range	30W / m² ~ 150W / m² (Full spectrum 300-400nm) or 0.3W / m² ~ 1.5W / m² @340nm or 0.5W / m² ~ 2.7 W / m²@420nm			





Xenon lamp weathering test chamber

Simulate hazards caused by freezing, sunlight, rain, dew, and high temperatures

The simulated natural illumination is different from the spectrum required by the laboratory, and is realized by various ways, and the degree of damage of the product is tested according to the solar radiation of different frequencies. The most common application is to perform rapid aging tests on equipment or instruments.





4.5KW / 6KW (Water-cooled full-spectrum long-arc xenon lamp)



International well-known brand compressors

Model	SM-XD-600-CA	SM-XD-1000-CA	SM-XD-3600-CA	
Internal working volume	600 L	1000 L	3600 L	
Internal dimensions (W x H x D) mm			1700x1800x1200	
External dimensions (W x H x D) mm	1500x1900x1050 1650x2100x1300		3600x2300x1600	
Temperature control range	emperature control range -70.0 C ~+80.0 C (A: +25 C ~+80.0 C; B: -20 C ~+80.0 C; C: -40 C ~+80.0 C; D: -70			
Irradiance				

UV lamp Weathering Test Chamber (UV600)



The UV lamp accelerated weathering test chamber (UV600) uses a fluorescentultraviolet lamp as a light source, and appropriately controls the temperature and humidity to periodically generate condensation on the sample, thereby comprehensively obtaining the damage effect of sunlight, moisture and temperature on the polymer material.

The UV-600 conforms to a large number of national,international and industry specifecations,including but not limited to:

ASTM D4799 ASTM D6662 ASTM G154 ASTM D4587 EN 927-6 ISO 11507 ISO 4892-3 SAE J2020
 J15K 5600-7-8 AATCC TM186

Light source	UV-A(wavelength 340nm)or UV-B(wavelength 313nm); 40W×8pcs(normal service life: 6000h)
External dimension	1360×520×1310mm (WxDxH)
Effective exposure area	5175cm²/828in²
Irradiance setting range	$0.3W/m^2 \sim 1.0 \; W/m^2$

UV lamp Weathering Test Chamber (UV800)

- Protection function: Once the door is open, the UV light goes out.
- Illumination and condensation can be controlled independently or alternatively.
- The interior is made of SUS304 stainless steel.
- The heating method is the internal tube heater heating, the heating is fast, and the temperature distribution is uniform.





Light source	UV-A (320 ~ 400nm) / UV-B (275 ~ 320nm)	
External dimensions	1300x1750x750 mm (W x H x D)	
Internal dimensions	1170x500x600 mm (W x H x D)	
Lighting dimensions	W1,000mm x D600mm ± 2mm	



Salt spray test chamber

Environmental test equipment for simulating the corrosion resistance of products or metal materials by simulating salt spray environmental conditions

The artificial simulated salt spray environment test uses a test equipment with a certain working volume - the salt spray test chamber, to artificially use the salt spray environment in the working room to assess the salt spray corrosion resistance quality of the product.



Model	SM-Y-60D	SM-Y-90D	SM-Y-120D	SM-Y-160D	SM-Y-200D
Internal working volume	108 L	270 L	480 L	800 L	1440 L
Internal dimensions (W x D x H) mm			1200x850x500	1600x1000x550	2000x1200x600
External dimensions (W x D x H) mm	1130x630x1070	1460x910x1280	2200x1200x1450	2600x1450x1550	3000x1650x1600
Saline solubility	0.26 grams of copper chloride (CuCl2 2H2O) per liter of sodium chloride solution concentration 5% or sodium chloride solution concentration 5%				

Walk-in type temperature, humidity and salt spray integrated chamber



Artificial climatic environment "three factors"



Model	SM-F-120CA	SM-F-160CA	SM-F-200CA	SM-F-1800CA	SM-F-8000CA (one unit)
Internal working volume	408 L	800 L	1440 L	1800 L	8000 L (customizable)
Internal dimensions (W x D x H) mm	1200x850x500	1600x1000x550	2000x1200x600	1800x1000x1000	2000x2000x2000 (customizable)
External dimensions (W x D x H) mm	2200x1200x1450	2200x1200x1450 2600x1450x1550 3000x1650x1600 2800x1450x2150			3200x2350x2800 (customizable)
Temperature range		-10°C ~ +80°C (/	-40°C ~ +80°C (customizable)		
Saline solubility 0.26 grams of copper chloride (CuCl2 2H2O) per liter of sodium chloride solution concentration 5% or sodium chloride solution concentration 5%				solution concentration 5%	

Sand & Dust test chamber



- Controller can control time and temperature
- Equipped with air switch (to prevent overcurrent and short circuit), dustproof socket
- We have insulation mineral wool on both sides of the machine, which effectively reduces the noise of the machine.
- Cable port for easy power-on test.
- Wiper: the dust adhering to the wall can be wiped to maintain the concentration required for the test.





Model	SM-SC-500C	SM-SC-1000C	SM-SC-2000
Internal working volume	Internal working volume 500 L		2000 L
External dimensions (mm)	1450x1700x1000	1650x1900x1200	1650x2900x1200
Internal dimensions (mm)	800x800x800	1000x1000x1000	1000x2000x1000

Ozone aging test chamber

- Imported ozone concentration control analyzer
- signal output and sampling.
- Silent discharge tube type ozone generator (with low noise, high purity).
- The heating method is tube heater heating, fast heating, uniform temperature distribution, built-in 360-degree rotating sample holder.







Model	SM-150CY
Ozone concentration	0~1,500pphm (level adjustable)
External dimensions (mm)	1150(W) x 1500(H) x 750(D)
Internal dimensions (mm)	500(W) x 600(H) x 500(D)



Integrated Type Rain Test Chamber (IPX-12/34/56)

Applicable to the evaluation of the degree of protection of electrical appliances, electronic equipment and etc.

* The different standard rain test chamber can be customized according to customers' requirements.

Mainly used to determine: the effectiveness of the protective shell to prevent rain, the ability of the equipment to meet its performance requirements during or after the rain exposure, the physical damage caused by the rain, and whether the rainwater removal system is effective. Size can be customized.





IPX-1/2

IPX-3/4

IPX-5/6

Rain Test Chamber (IPX-9K)

Water spray angle : 0、30、60、90 degree (4 positions) Water flow : 14-16L/min

- * The different standard Rain Test Chamber can be customized according to customers' requirements
 - Germany imported high booster pump
 - Water pressure overload protection switch
 - Internal SUS#304 stainless steel plate material
 - PLC multi-machine interface control can be used to set the actuation time and water spray time





Model	SM-IPX9K-1000	
External dimensions (mm)	1500(W) x 1950(H) x 1250(D)	
Testing room dimensions (mm)	1000(W) x 1080(H) x 1050(D)	
Test table size	400mm x 400mm	

HAST accelerated aging test chamber



- IEC 60068-2-66,an environmental testing standard of the IEC (International Electrotechnical Commission).
 - Precise pressure and temperature gauge shows pressure and temperature in the pot at any time.
 - Automatic watering function and automatic water replenishment when the water level is too low during the test.
 - The test process is automatically run to the end of the test, easy to use.
 - LED digital temperature controller can accurately set, control and display test temperature.
 - The running water automatically discharges the unsaturated steam during operation to achieve the best steam quality.

Model	SM-HAST-250-A	SM-HAST-300-A	SM-HAST-400-A	
External dimensions (mm) 560(W) x 1050(H) x1250(D)		660(W) x 1050(H) x 1250(D)	760(W) x 1150(H) x 1350(D)	
Internal dimensions (mm)	Ф250 x 450(D)	Ф300 x 450(D)	Ф400 x 500(D)	
Pressure control range	Normal pressure	ure +0.2~3.0kg/cm ²		
Humidity range	70.0% RH ~ 100.0% RH			



HALT/HASS test chamber

HALT accelerates the exposure of test samples to defects and weak points by systematically setting incremental environmental stresses, and then analyzes and improves the exposed defects and faults from design, process and materials to improve product reliability.

The most important feature is to set environmental stresses above the operating limits of the product design, which not only makes the exposure time much shorter than the time required under normal reliability stress conditions, but also determines the working and damage limits of the product.

Temperature and altitude test chamber

Mainly used in the aerospace, electronics, defense, scientific research and other industrial sectors to determine electrical and electronic products (including components, materials and instrumentation).



Model	SM-VTH-250-CC	SM-VTH-500-CC	SM-VTH-1000-CC	SM-VTH-2000-CC
External dimensions (mm) WxHxD	2000x1060x1900	2500x1260x2050	2720x1460x2130	3150x1650x2050
Internal dimensions (mm) WxHxD	550x600x700	700x800x900	1000x1000x1000	1400x1200x1200
Air pressure range	Normal pressure ~ 0.5kpa (500pa) -70°C ~ +180°C (A: 0°C ~ +180°C; B: -20°C ~ +180°C ; C: -40°C ~ +180°C; D: -70°C ~ +180°C			
Temperature range				



Precision high temperature oven





It is suitable for lithium-ion battery and battery core vacuum drying; put the pole piece or battery core into the oven, set the required dryingprocess time on the PLC interface, press the start button to start the drying process, according to the process setting. It is required that the equipment automatically performs the work of vacuuming and nitrogen filling.

Model	SM-G-1000-DA	SM-G-1800-DA	SM-G-2520-DA	SM-G-3600-DA	SM-G-5000-DA	SM-G-8000-DA
Internal working volume	1000 L	1800 L	2520 L	3600 L	5000 L	8000 L
Internal dimensions (WxHxD) mm	1000x1000x1000	1000x1500x1200	1200x1500x1400	1200x2000x1500	1500x1800x1850	2000x2000x2000
External dimensions (WxHxD) mm	1200x1550x1450	1200x2000x1650	1400x2000x1850	1400x2350x1950	1700x2150x2300	2300x2450x2600
Temperature control range	RT+10 C ~+300 C (A: +25 C ~+200 C; B: +25 C ~+300 C)					

Double-layer battery oven

Size can be customized

- Two sets of systems are configured, and each layer is independently controlled in temperature;
- Continuous uninterrupted working time ≥1000h under the test condition of 140 °C;
- Equipped with an explosion-proof pressure relief port, when the pressure increases sharply, the pressure relief port will automatically pop to open;
- The smoke flame sensor detects the smoke flame and fire extinguishing system to extinguish the fire in the chamber;
- Explosion-proof safety design of the cabinet, equipped with explosion-proof chains, insulation layer using aluminum silicate insulation and insulation material.





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NOTE



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