

Environmental Test Chambers



Zhongkemeiqi is a leading high-tech enterprise specialized in the research and development, production and sales of environmental simulation testing equipment.

The headquarters Zhongmeimei (Beijing) Technology Co., Ltd. was established in August 2012 with a registered capital of 10 million. We also have set up our Tianjin Branch and production base Zhongkemeiqi (Tianjin) Technology Co.,Ltd. with an area of 2,000 square meters.



Since the establishment of Zhongkemeiqi, we have been constantly kept improving from product development to after-sales service and also take the customer's point of view and needs as the starting point in every aspect.

We have passed and strictly implemented the ISO 9001:2015 Quality management system certification, ISO 14001:2015 Environmental management system certification, GB/T 2008-011 Occupational health and safety management system certification, CE European safety standard certification and also scientific and technological SMEs identification.

Many of our testing equipment have obtained the patents and computer software registration rights, and also can be produced in line with GB, GJB, ISO, DIN, BS, MIL / STD, ASTM, UL, JIS, IEC and other standards. They are widely used in the state-level key laboratories and large-scale third-party testing laboratories, involving the field of aviation, aerospace, Vessels, weapons, automobiles, electric power, intelligent manufacturing, new energy, electronics, medical, measurement, communication, scientific research institutions and university and so on. Our main products are as follows:

- Temperature and Humidity test chamber,
- Rapid Temperature Change test chamber,
- Thermal Shock test chamber,
- Temperature and Low-Pressure test chamber,
- Temperature Humidity and Vibration test chamber,
- Ultra-Low Temperature Chamber /Solution,
- Thermal Vacuum Chambers,
- Aging test chamber (UV, Xenon lamp, Ozone),
- Salt Spray test chamber,
- Rain / Sand Dust test chamber,
- Vacuum drying oven,
- Vibration test bench,
- Drop test bench,
- Simulated transport test bench,

...

Zhongkemei regards its reputation as the life of the company, keeps its commitment to clients, and takes “integrity, innovation and excellence” as the principle to serve all the clients.

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High Temperature Test Chamber – (Model One)

Mainly in the high temperature environment conditions for temperature stress detection, temperature aging screening, reliability testing, performance testing, weathering test, high temperature storage of the specimen.



Product	High Temperature Test Chamber			
Model	MQ-HT-100	MQ-HT-250	MQ-HT-500	MQ-HT-1000
Volume (L)	100	250	500	1000
Internal Size W*D*H (mm)	450×450×500	600×600×700	700×800×900	1000×1000×1000
External Size W*D*H (mm)	690×870×900	840×920×1150	950×1150×1300	1300×1350×1400
Temperature Range	A、RT+20°C~+200°C B、RT+20°C~+300°C C、RT+20°C~+500°C			
Heating Rate	I、≥3.0°C/min II、≥5.0°C/min III、≥10.0°C/min			
Temperature Fluctuation	±0.3°C			
Temperature Uniformity	≤2.0°C			
Temperature Deviation	≤±2.0°C			
Running Noise	≤55dB(A)			
Power Supply	220±10% VAC, 50HZ,L+N+G		380±10% VAC, 3L+N+G	
Standard Compliance	IEC60068-2-2 / MIL-STD-810F-501.4 GB/T 11158-2008 / GB/T 5170.2-2008 ...			

High Temperature Test Chamber – (Model Two)

Mainly in the high temperature environment conditions for temperature stress detection, temperature aging screening, reliability testing, performance testing, weathering test, high temperature storage of the specimen.



Product	High Temperature Test Chamber				
Model	MQ-GW-100A	MQ-GW-150A	MQ-GW-225A	MQ-GW-500A	MQ-GW-1000A
Volume (L)	100	150	225	500	1000
Internal Size W*D*H (mm)	400X500X500	500X500X600	500X600X750	700X800X900	1000X1000X1000
External Size W*D*H (mm)	900X950X1620	1000X950X1720	1100X1050X1850	1200X1250X2030	1500X1500X2100
Temperature Range	A、RT+20°C~+200°C B、RT+20°C~+300°C C、RT+20°C~+500°C				
Heating Rate	I、≥3.0°C/min II、≥5.0°C/min III、≥10.0°C/min				
Temperature Fluctuation	±0.5°C				
Temperature Uniformity	≤±2.0°C				
Temperature Deviation	≤±2.0°C				
Running Noise	≤55dB(A)				
Power Supply	220±10% VAC, 50HZ,L+N+G	380±10% VAC, 3L+N+G			
Standard Compliance	IEC60068-2-2 / MIL-STD-810F-501.4 GB/T 11158-2008 / GB/T 5170.2-2008 ...				

Air Drying Oven

Suitable for drying various products or materials and electrical, instrument, instrument, component, electronics, electrician and automobile, aviation, communication, plastic, machinery, chemical, food, hardware tools under constant temperature conditions.



Product	Air Drying Oven							
Model	MQ-BDB-9230	MQ-BDB-9070	MQ-BDB-9140	MQ-BDB-9240	MQ-BDB-9420	MQ-BDB-9620	MQ-BDB-9640	MQ-BDB-9920
Volume (L)	30	70	140	240	420	620	640	920
Internal Size W*D*H (mm)	340×320×320	400×350×500	450×550×550	500×600×750	600×550×1300	800×600×1300	800×800×1000	1000×600×1600
External Size W*D*H (mm)	480×500×630	550×530×810	590×730×860	640×780×1060	740×730×1670	940×780×1690	940×980×1390	1140×780×1990
Input Power (W)	1050	1500	2000	2500	4500	6000	6500	7500
Power Supply	AC 220V±10%/50Hz±2%				AC380V±10%/50Hz±2%			
Temperature Range	A、RT+10°C~250°C		B、RT+10°C~300°C		C、100°C~400°C		D、100°C~500°C	
Temperature Fluctuation	≤±0.5°C							
Temperature Uniformity	≤±2.0°C							
Temperature Resolution	0.1°C							
Timing Range	0-9999min							
Standard Compliance	GB/T32710.10-2016 / GB/T30435-2013							

Large Scale High Temperature Test Chamber

Large-scale high-temperature test chambers are widely used in national key laboratories and large-scale third-party testing and testing laboratories, involving aviation, aerospace, weapons, ships, automobiles, intelligent manufacturing, new energy, communications, metrology, electronics, railways, electricity, medical and Research institutes...



Product	Large Scale High Temperature Test Chamber			
Model	MQ-WHT-045	MQ-WHT-080	MQ-WHT-024	MQ-WHT-060
Volume (m ³)	4.5	8	24.5	60
Internal Size W*D*H (m)	1.5×1.5×1.5	2×2×2	3.5×3.5×2	4.5×4.5×3
External Size W*D*H (m)	1.8×2×2.1	2.4×2.6×2.8	3.8×4.3×2.8	5×5.5×4
Temperature Range	A、RT+20°C~+100°C B、RT+20°C~+200°C C、RT+20°C~+300°C			
Heating Rate	I、≥3.0°C/min II、≥5.0°C/min III、≥10.0°C/min			
Temperature Fluctuation	±0.5°C			
Temperature Uniformity	≤±2.0°C			
Temperature Deviation	≤±2.0°C			
Running Noise	≤55dB(A)			
Standard Compliance	IEC60068-2-2 / MIL-STD-810F-501.4 GB/T 11158-2008 / GB/T 5170.2-2008 ...			

High-Low Temperature (Humidity) Test Chamber– (Model One)

Temperature and humidity test chambers are available as standard products in a variety of sizes to suit your needs. Test component temperature stress detection, temperature screening, reliability test, performance test, weathering test, high and low temperature storage, etc. during the high and low temperature (humidity) environment conditions.



Product	High-Low Temperature (Humidity) Test Chamber				
Model	MQ-T(H)100F-2	MQ-T(H)250F-2	MQ-T(H)500F-2	MQ-T(H)1000F-2	MQ-T(H)2000F-2
Volume(L)	100	250	500	1000	2000
Internal Size W*D*H (mm)	450×450×500	600×600×700	750×750×900	1000×1000×1000	1300×1300×1200
External Size W*D*H (mm)	650×1000×1450	800×1200×1700	950×1400×1900	1200×1500×1950	1600×1800×2350
Temperature Range	A、-40°C~150°C B、-70°C~150°C				
Temperature Fluctuation	≤±0.3°C				
Temperature Uniformity	≤2.0°C				
Temperature Deviation	≤±2.0°C				
Humidity Range	20%~98%RH				
Humidity Fluctuation	≤±2%RH				
Humidity Deviation	Humidity>75%RH: ≤+2,-3%RH; Humidity<75%RH: ≤±5%RH				
Heating Rate	≥3.0°C/ min				
Cooling Rate	≥2.0°C/ min				
Linear Temperature Control	0.5~1.0°C/min				
Refrigerating Mode	Single Compressor Refrigeration Technology to -70°C				
Cooling Way	Air-Cooling				
Controller	SIEMENS PLC +Independent Programming development design +touch screen				
Humidity System	Independent patented technology, electric steam humidification				
Power Supply	380±10% VAC, 50Hz, 3L+N+G				
Standard Compliance	IEC60068-2-1 / IEC60068-2-2 / MIL-STD-810F-501.4/ MIL-STD-810F-502.4/ GB/T 10589-2008 / GB/T 10592-2008 / GJB 360B-2009/ JJF 1101-2003/ GB/T 5170.2-2008...				

High-Low Temperature (Humidity) Test Chamber – (Model Two)

Temperature and humidity test chambers are available as standard products in a variety of sizes to suit your needs. Test component temperature stress detection, temperature screening, reliability test, performance test, weathering test, high and low temperature storage, etc. during the high and low temperature (humidity) environment conditions.



Product	High-Low Temperature (Humidity) Test Chamber					
Model	MQ-WSJB-100B	MQ-WSJB-150B	MQ-WSJB-225B	MQ-WSJB-408B	MQ-WSJB-500B	MQ-WSJB-1000B
Volume(L)	100	150	225	408	500	1000
Internal Size W*D*H (mm)	400X500X500	500X500X600	500X600X750	600X800X830	700X800X900	1000X1000X1000
External Size W*D*H (mm)	900X950X1620	1000X950X1720	1100X1050X1850	1200X1250X1950	1200X1250X2030	1500X1500X2100
Temperature Range	A、-40°C~150°C B、-70°C~150°C					
Temperature Fluctuation	≤±0.5°C					
Temperature Uniformity	≤±2.0°C					
Temperature Deviation	≤±2.0°C					
Humidity Range	20%~98%RH					
Humidity Fluctuation	≤±2%RH					
Humidity Deviation	Humidity>75%RH: ≤+2,-3%RH; Humidity<75%RH: ≤±5%RH					
Heating Rate	≥2.0°C/ min					
Cooling Rate	0.7~1.0°C/ min					
Refrigerating Mode	Single Compressor Refrigeration Technology to -40°C					
Cooling Way	Air-Cooling					
Controller	Taiwan WeinView TH7008 touch screen					
Humidity System	Wet and dry bulb sensor					
Power Supply	380±10% VAC, 50Hz, 3L+N+G					
Standard Compliance	IEC60068-2-1 / IEC60068-2-2 / MIL-STD-810F-501.4/ MIL-STD-810F-502.4/ GB/T 10589-2008 / GB/T 10592-2008 / GJB 360B-2009/ JFJ 1101-2003/ GB/T 5170.2-2008...					

Benchtop High-Low Temperature (Humidity) Test Chamber

Benchtop Environmental Chamber offers flexibility, uniformity, and control accuracy required for cost-effective environmental testing. Ideal for testing smaller products such as computer components, automobile sensors, or cell phones. It combines superior performance in a small, compact design well suited for research and development or personal point-of-use testing. 15L ,30L ,50L volume are available.



Product	Benchtop High-Low Temperature (Humidity) Test Chamber		
Model	MQ-DT(H)15F-2	MQ-DT(H)30F-2	MQ-DT(H)50F-2
Volume(L)	15	30	50
Internal Size W*D*H (mm)	300X200X250	300X300X350	350X350X400
External Size W*D*H (mm)	460X875X740	550X975X1050	600X1000X1200
Temperature Range	A、-40°C~150°C B、-70°C~150°C		
Temperature Fluctuation	≤±0.3°C		
Temperature Uniformity	≤2.0°C		
Temperature Deviation	≤±2.0°C		
Humidity Range	20% ~98%RH		
Humidity Fluctuation	≤±2%RH		
Humidity Deviation	Humidity>75%RH: ≤+2,-3%RH; Humidity<75%RH: ≤±5%RH		
Heating Rate	≥3.0°C/ min		
Cooling Rate	≥2.0°C/ min		
Linear Temperature Control	0.5~1.0°C/min		
Refrigerating Mode	Single Compressor Refrigeration Technology to -70°C		
Cooling Way	Air-Cooling		
Controller	SIEMENS PLC +Independent Programming development design +touch screen		
Humidity System	Independent patented technology, electric steam humidification		
Power Supply	220±10% VAC, 50Hz, 3L+N+G		
Standard Compliance	IEC60068-2-1 / IEC60068-2-2 / MIL-STD-810F-501.4/ MIL-STD-810F-502.4/ GB/T 10589-2008 / GB/T 10592-2008 / GJB 360B-2009/ JJF 1101-2003/ GB/T 5170.2-2008...		

Ultra-Low Temperature Test Chamber

Compressor refrigeration can achieve any temperature from -70 ° C to -170 ° C
 Reduce power consumption more than 30% during low temperature test
 Performance indicators are better than national military standards
 Compact size which easy access to the lab within 500L
 Optimize the air duct to make the wind path is more reasonable



Product	Ultra-Low Temperature Test Chamber			
Model	MQ-UT100	MQ-UT250	MQ-UT500	MQ-UT1000
Volume (L)	100	250	500	1000
Internal Size W*D*H (mm)	450×450×500	600×600×700	750×750×900	1000×1000×1000
External Size W*D*H (mm)	650×1000×1450	800×1200×1700	950×1400×1900	1200×1500×1950
Temperature Range	A、-90°C~+50°C B、-120°C~+50°C C、-150°C~+50°C D、-170°C~+50°C			
Temperature Fluctuation	≤±0.5°C			
Temperature Uniformity	≤2.0°C			
Temperature Deviation	≤±2.0°C			
Cooling Time	+25°C~-90°C≤2H +25°C~-150°C≤4H		+25°C~-120°C≤3H +25°C~-170°C≤5H	
Refrigeration Mode	Compressor Refrigeration			
Cooling Way	F、Air-Cooling W、Water-Cooling			
Power Supply	380±10% VAC, 50Hz, 3L+N+G			
Standard Compliance	IEC60068-2-1/ MIL-STD-810F-502.4 / GB/T30435-2013 / GB/T 2423.1-2008 / GJB 150.4A-2009 / GJB 360B-2009...			

Walk-In High-Low Temperature (Humidity) Test Chamber

Walk-in test chambers give the maximum flexibility in both chamber size and performance for your most demanding temperature/humidity testing requirements. It also allows manufacturers to simulate how their products will perform in temperature and humidity conditions. Test component temperature, stress detection, temperature screening, reliability test, performance test, weathering test, high and low temperature storage, etc. during the high and low temperature (humidity) environment conditions.



Product	Walk-In High-Low Temperature (Humidity) Test Chamber						
Model	MQ-WT(H)08	MQ-WT(H)022	MQ-WT(H)048	MQ-WT(H)120	MQ-WT(H)180	MQ-WT(H)280	MQ-WT(H)480
Volume (m ³)	8	22	48	120	180	280	480
Internal Size W*D*H (m)	2×2×2	3×3×2.5	4×4×3	5×5×4	6×6×5	7×8×5	8×10×6
Temperature Range	A、-40°C~100°C B、-70°C~100°C C、-90°C~100°C D、-120°C~100°C						
Temperature Fluctuation	≤±0.5°C						
Temperature Uniformity	≤2.0°C						
Temperature Deviation	≤±2.0°C						
Heating Rate	≥3.0°C/ min						
Cooling Rate	≥0.7~1.0°C/ min						
Humidity Range	20%~98%RH						
Humidity Fluctuation	≤±2%RH						
Humidity Deviation	Humidity>75%RH: ≤+2,-3%RH; Humidity<75%RH: ≤±5%RH						
Refrigeration Mode	Single Compressor Refrigeration Technology to -70°C						
Structure Type	Integrated Type Split Type						
Cooling Way	F, Air-Cooling W, Water-Cooling						
Controller	SIEMENS PLC +Independent Programming development design +touch screen						
Humidity System	Independent patented technology, electric steam humidification						
Power Supply	220±10% VAC, 50Hz, 3L+N+G						
Standard Compliance	IEC60068-2-1 / IEC60068-2-2 / MIL-STD-810F-501.4/ MIL-STD-810F-502.4/ GB/T 10589-2008 / GB/T 10592-2008 / GJB 360B-2009/ JJF 1101-2003/ GB/T 5170.2-2008...						

Constant Temperature and Humidity Test Chamber

It is designed to simulate constant climatic conditions for testing a wide variety of products for their quality, performance, shelf life and stability. It is used to simulate constant temperature and humidity conditions, thereby creating a physiologically ideal environment for product testing. This equipment is most commonly employed for testing electrical devices, electronic parts and components, instruments, biological samples, food items and other manufactured and processed goods and find widespread usage in scientific research organizations, semiconductor industries, material research institutes and other industrial and manufacturing units.



Product	Constant Temperature and Humidity Test Chamber			
Model	MQ-CTH100F-1	MQ-CTH250F-1	MQ-CTH500F-1	MQ-CTH1000F-1
Volume (L)	100	250	500	1000
Internal Size W*D*H (mm)	450×450×500	600×600×700	750×750×900	1000×1000×1000
External Size W*D*H (mm)	700×1000×1450	850×1200×1700	1000×1400×1900	1250×1500×1950
Temperature Range	0°C~100°C			
Humidity Range	20%~98%RH			
Temperature Fluctuation	≤±0.3°C			
Humidity Fluctuation	≤±2%RH			
Temperature Uniformity	≤2.0°C			
Temperature Deviation	≤±2.0°C			
Humidity Deviation	Humidity > 75%RH: ≤+2,-3%RH; Humidity < 75%RH: ≤±5%RH			
Heating Rate	≥3.0°C/min			
Cooling Rate	≥1.0°C/min			
Refrigeration Mode	Compressor Refrigeration			
Cooling Way	Air-Cooling			
Standard Compliance	GB/T 2423.3-2008 / IEC60068-2-1 / IEC60068-2-2 / MIL-STD-810F-501.4/ MIL-STD-810F-502.4/ GB/T 10589-2008 / GB/T 10592-2008 / GJB 360B-2009/ JJF 1101-2003/ GB/T 5170.2-2008...			

Rapid Temperature Change (Humidity) Test Chamber

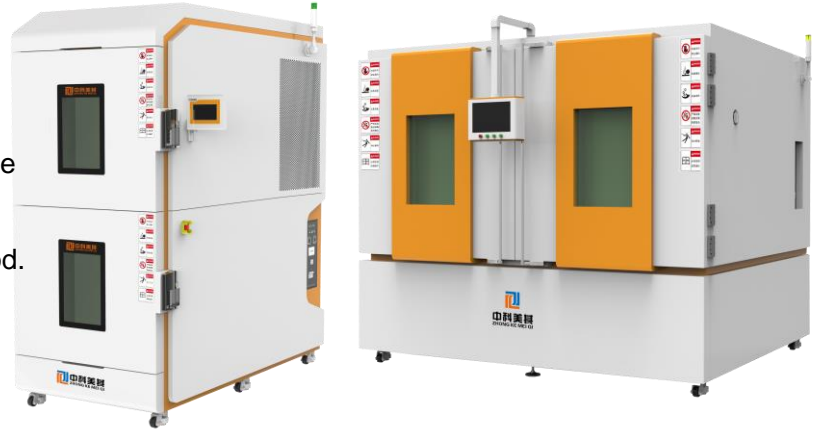
It tests products' performance by simulating rapid temperature change, the purpose is to screen unqualified products caused by defective design, manufacturing or wrong artwork in early stage, to improve products quality, minimize repair rate, Rapid Temperature Change (Humidity) Test Chamber is an effective solution for environmental stress screening.



Product	Rapid Temperature Change (Humidity) Test Chamber				
Model	MQ-RT(H)100	MQ-RT(H)250	MQ-RT(H)500	MQ-RT(H)1000	MQ-RT(H)2400
Volume (L)	100	250	500	1000	2400
Internal Size W*D*H (mm)	450×450×500	600×600×700	750×750×900	1000×1000×1000	1300×1400×1300
External Size W*D*H (mm)	700×1200×1450	850×1400×1700	980×1600×1900	1250×1800×1950	1600×2550×2500
Temperature Range	A、-40°C~150°C B、-70°C~150°C				
Humidity Range	I、10%~98%RH II、20%~98%RH III、30%~98%RH				
Temperature Fluctuation	≤±0.3°C				
Humidity Fluctuation	≤±2%RH				
Temperature Uniformity	≤2.0°C				
Temperature Deviation	≤±2.0°C				
Humidity Deviation	Humidity > 75%RH: ≤±2,-3%RH; Humidity < 75%RH: ≤±5%RH				
Heating Rate	5、10、15、20、25、30°C/min				
Cooling rate	5、10、15、20、25、30°C/min				
Controller	SIEMENS PLC +Independent Programming development design +touch screen				
Humidity System	Independent patented technology, electric steam humidification				
Refrigeration Mode	Single Compressor Refrigeration Technology to -70°C				
Cooling Way	F, Air-Cooling W, Water-Cooling				
Power Supply	380±10% VAC, 50Hz, 3L+N+G				
Standard Compliance	IEC60068-2-1 / IEC60068-2-2 / MIL-STD-810F-501.4/ MIL-STD-810F-502.4/ GB/T 10589-2008 / GB/T 10592-2008 / IEC60068-2-14/ GJB 360B-2009/ JJF 1101-2003/ GB/T 5170.2-2008...				

Two-Zone Thermal Shock Test Chamber

It is a chamber with two compartments corresponding to two different temperature levels. It is characterized by a design for the test basket, which is transferred between the hot and cold compartments through a motorized system connected by a screw rod. It can be divided into Vertical Type and Horizontal Type.



Product	Two-Zone Thermal Shock Test Chamber				
Mode	MQ-2IT50	MQ-2IT100	MQ-2IT200	MQ-2IT500	MQ-2IT1000
Volume (L)	50	100	200	500	1000
Internal Size W*D*H (mm)	400×500×400	500×500×400	600×600×550	700×800×900	1000×1000×1000
External Size W*D*H (mm)	950×1100×1750	1050×1200×1900	1150×1300×2100	1950×2000×2280	2450×2300×2380
Test Basket Size W*D*H (mm)	250×250×170	350×350×250	450×450×270	500×600×700	800×800×800
Sample Holder Bearing (kg)	15	30	40	50	60
Working Mode	A、Vertical Type B、Horizontal Type				
Temperature Range	A、-75°C~+200°C B、-90°C~+200°C C、-120°C~+200°C				
Shock Temperature Range	A、-55°C~+160°C B、-75°C~+160°C C、-85°C~+160°C				
Temperature Fluctuation	≤±0.5°C				
Temperature Uniformity	≤±2.0°C				
Temperature Deviation	≤±2.0°C				
Heating Rate	RT~+200°C≤40min				
Cooling Rate	A、+25°C~-75°C≤60min B、+25°C~-90°C≤80min C、+25°C~-120°C≤120min				
Temperature Conversion Time	≤10s				
Temperature Recovery Time	≤5min				
Exposure Condition	High Temperature Exposure 30min; Low Temperature Exposure 30min				
Refrigeration Mode	Compressor Refrigeration				
Cooling Way	F, Air-Cooling W, Water-Cooling				
Standard Compliance	IEC60068-2-14 / MIL-STD-810F-501.4 / MIL-STD-810F-502.4 / MIL-STD-810F-503.4 / GB/T 10592-2008 / GJB 360B-2009 GB/T 5170.2-2008...				

Three-Zone Thermal Shock Test Chamber

It is not a chamber with three compartments. It is a different approach to thermal shock test with payload in a fixed position. It has a new design that can dramatically improve the space crowded situation of many testing laboratories, as the specimen is fixed in its position and the chamber is connected alternatively to hot and cold chamber.



Product	Three-Zone Thermal Shock Test Chamber				
Model	MQ-3IT50	MQ-3IT100	MQ-3IT200	MQ-3IT500	MQ-3IT1000
Volume(L)	50	100	200	500	1000
Internal Size W*D*H (mm)	400×500×400	500×500×400	600×600×550	700×800×900	1000×1000×1000
External Size W*D*H (mm)	1150×1300×1950	1250×1400×2000	1350×1600×2200	1450×1800×2680	1750×2500×2580
Sample Holder Bearing (kg)	15	30	40	50	60
Working Mode	Automatic Switching Type				
Temperature Range	A、-75℃~+200℃ B、-90℃~+200℃ C、-120℃~+200℃				
Shock Temperature Range	A、-55℃~+160℃ B、-75℃~+160℃ C、-85℃~+160℃				
Temperature Fluctuation	≤±0.5℃				
Temperature Uniformity	≤±2.0℃				
Temperature Deviation	≤±2.0℃				
Heating Rate	RT~+200℃≤40min				
Cooling Rate	A、+25℃~-75℃≤60min B、+25℃~-90℃≤80min C、+25℃~-				
Temperature Conversion Time	≤10s				
Temperature Recovery Time	≤5min				
Exposure Condition	High Temperature Exposure 30min; Low Temperature Exposure 30min				
Refrigeration Mode	Compressor Refrigeration				
Cooling Way	F, Air-Cooling W, Water-Cooling				
Standard Compliance	IEC60068-2-14 / MIL-STD-810F-501.4 / MIL-STD-810F-502.4 / MIL-STD-810F-503.4 / GB/T 10592-2008 / GJB 360B-2009 GB/T 5170.2-2008...				

Vacuum Drying Oven

vacuum drying chambers enable effective, gentle drying without damaging the material being dried. This makes vacuum drying suitable for materials that become damaged or are changed if exposed to high temperatures. Vacuum drying also minimizes the risk of scaling and the formation of oxidation residues.



Product	Vacuum Drying Oven						
Model	MQ-VDB6020	MQ-VDB6030	MQ-VDB6050	MQ-VDB6090	MQ-VDB6210	MQ-VDB6250	MQ-VDB6500
Volume(L)	20	30	50	90	210	250	500
Internal Size W*D*H (mm)	300×300× 275	320×320× 300	415×370×3 45	415×345×3 70	560×640×6 00	700×600×600	630×810×8 45
External Size W*D*H (mm)	580×450× 450	630×510× 460	720×525×5 35	615×590×1 470	720×820×1 750	1050×760×16 10	790×1030× 1850
Structure Mode	V、Floor-Standing D、Benchtop						
Control Mode	A、Digital Display Buttons B、Program Loop C、Vacuum Degree Digital Display + Automatic Control D、PLC program						
Vacuum Pump	A、Domestic B、Imported (Leybold)						
Vacuum Degree (pa)	A、≤133pa		B、50pa ~ 100kpa adjustable			C、0.1~9.99kpa	
Temperature Range	RT+10°C~+250°C			RT+10°C~+300°C			
Temperature Fluctuation	≤±0.5°C						
Heating Rate	≥3°C/min						
Timing Range	0-9999min						
Liquid Water Filter (Optional)	Suitable for materials that are moisture and non-corrosive, preventing the oil-water mixture from damaging the service life of the pump						
Condensing Unit (Optional)	Suitable for corrosive chemicals to prevent the volatilization of reagents into the pipeline such as pumps						
Stainless Steel Liner (Optional)	If the specimen has acid-base corrosion, the liner material needs to be replaced with 316L medical grade anti-corrosion stainless steel.						
Standard Compliance							

Temperature (Humidity) Low Pressure Test Chamber

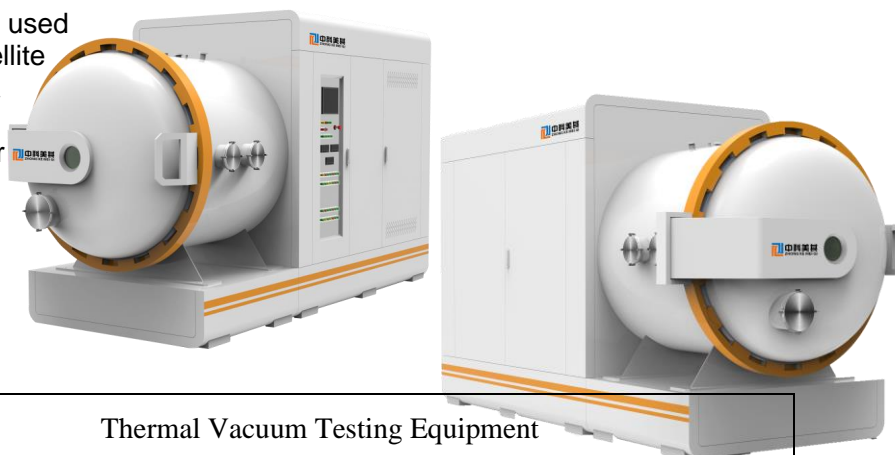
The High / Low Temperature (Humidity)low-pressure test chamber is used to simulate the high mountain environment for testing vehicles, electronics, components, packaging materials which require air transport.



Product	Temperature (Humidity)Low Pressure Test Chamber			
Model	MQ-TL/THL100	MQ-TL/THL250	MQ-TL/THL500	MQ-TL/THL1000
Volume(L)	100	250	500	1000
Internal Size W*D*H (mm)	450×450×500	600×600×700	800×800×800	1000×1000×1000
External Size W*D*H (mm)	980×1000×1750	1100×1300×1800	1250×1500×1980	1450×1800×2280
Temperature Range	A、-40°C~150°C B、-70°C~150°C			
Humidity Range	A、10%~98%RH B、20%~98%RH C、30%~98%RH			
Temperature Fluctuation	≤±0.5°C(Atmospheric Pressure, No load)			
Temperature Uniformity	≤±2.0°C(Atmospheric Pressure, No load)			
Temperature Deviation	≤±2.0°C(Atmospheric Pressure, No load)			
Heating Rate	RT~+150°C≤40min			
Cooling Rate	A、+25°C~-40°C≤30min B、+25°C~-70°C≤80min			
Pressure Range	Atmospheric Pressure~0.5KPa			
Pressure Decrease Time	Atmospheric Pressure~1.0KPa≤30min (when the inner space is dry)			
Pressure Deviation	Atmospheric Pressure~40KPa: ±2KPa; 40KPa~2KPa: ±5KPa; 2KPa~1KPa: ±0.1KPa;			
Pressure Recovery Time	≤10KPa/min			
Refrigeration Mode	Compressor Refrigeration			
Cooling Way	F, Air-Cooling W, Water-Cooling			
Standard Compliance	GB/T 11159-2008 / GB/T 2423.25-2008 / GB/T 2423.26-2008 / MIL-STD-810F-501.4 /MIL-STD-810F-502.4 / MIL-STD-810F-500.4 /IEC60068-2-13 /GJB 360A-2009 / GB/T 5170.2-2008 / GB/T 5170.10-2008...			

Thermal Vacuum Testing Equipment

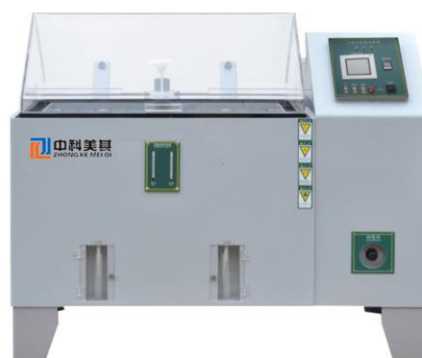
The thermal vacuum chambers are used for the purpose of simulating a satellite circling in an orbit, in order to test a satellite's operating performance in the space environment, where near vacuum and great temperature fluctuation conditions are present.



Product	Thermal Vacuum Testing Equipment		
Model	MQ-KM1	MQ-KM2	MQ-KM3
Vacuum Tank Size	φ1×1.5	φ2×2.5	φ3×3.5
Limiting Vacuum	≤5×10 ⁻⁵		
Working Vacuum	≤1.0×10 ⁻³		
Refrigeration Mode	Refrigerating Medium	Complex Working Medium	Liquid Nitrogen Refrigeration
	Thermal Sink + Cold-Plate	Thermal Sink +Heating Cage	Liquid Nitrogen thermal sink+ Heating Cage
Temperature Range	-70°C~+130°C	-110°C~+150°C	-173°C~+170°C
Temperature	≤1°C/h	≤1°C/h	≤1°C/h
Temperature	≤±2.0°C	≤±3.0°C	≤±5.0°C
Temperature	±1°C	±1°C	±1°C
Heating/Cooling	≥1°C/min		
Leakage Rate of Vacuum System	<5×10 ⁻⁹ Pa.m3/s		
Noise	Noise from Vacuum Extraction Equipment<70dB (A)		
Vacuum Time	The container can be pumped to better than 1.0×10 ⁻³ Pa within 4 hours under atmospheric temperature and no load.		
Temperature Detection System	The system uses multi-channel Pt100 temperature inspection meter to measure multi-point temperature		
Control Monitoring	Mainly include industrial control computer, control cabinet, PLC, instrument,		
Controller	Programmable controller, communication module, communication cable		
Power Supply	380±10% VAC, 3L+N+G		
Standard	1 set Sample Holder		
Standard Compliance	GJB 1027A / GJB 1033/ QJ 1446A/ QJ 2630.1/ QJ 2630.2 QJ 2630.3 / GB 150-1998 / GB/T 3164-2007 /GB/T 6070-2007 GB 50054-1995 / GB 50316-2008...		

Salt Spray Test Chamber

It provides a high-saline fog environment to create and maintain the salt spray (fog) test environment, and test the anti-corrosion quality of all the materials surfaces after the rust-proof of painting, coating, electroplating, anodizing and rust-proof of greasing.



Product	Salt Spray Test Chamber				
Model	MQ-YW-60	MQ-YW-90	MQ-YW-120	MQ-YW-160	MQ-YW-200
Volume (L)	108	270	480	800	1440
Internal Size W*D*H(mm)	600×400×450	900×500×600	1200×500×800	1600×500×1000	2000×600×1200
External Size W*D*H(mm)	1150×1090×672	1450×1200×842	2080×1285×1240	2480×1520×1450	2900×1550×1650
Temperature Range	Test Chamber Temperature Range: RT~50°C ; Saturated air barrel temperature: RT~63°C				
Temperature Deviation	≤±1.0°C				
Temperature Uniformity	≤2.0°C				
Temperature Fluctuation	≤±0.5°C				
Heating Rate	Test chamber RT~+50°C≤60min ; Pressure Barrel RT~+63°C≤60min				
Salt Spray Settlement	1~2ml/80m ² (Collect at least 16 hours, take the average)				
Spray Pressure	70~170Kpa				
Spray Mode	Continuous Spray				
Test Timing	1~999 (S、M、H) adjustable				
PH Values	6.5~7.2 3.0~3.2				
Power Supply	AC220V 50Hz				
Standard Compliance	GB/T2423.17-2008/IEC 60068-2-11 / ASTM.B117-2009 / JIS H8502 / GB/T10125-2012 / GB-T5170.8-2008 /GB-T5170.11-2008 /GB-T10587-2006 /GBT 20121-2006 / ISO11474-1998 ...				

Compound Type Salt Spray Test Chamber

It is simulated under the natural environment conditions, and combine with several times the harsh degree of natural environment. It is an accelerated corrosion test. The test sample is for products used under intense environmental changes. It combines salt spray (or CASS), hot air drying, wetting and other test conditions in any order, and can effectively promote the corrosion of coatings, metals, steel and other materials.



Product	Compound Type Salt Spray Test Chamber			
Model	MQ-FHYW-90	MQ-FHYW-120	MQ-FHYW-160	MQ-FHYW-200
Volume (L)	216	600	800	1200
Internal Size W*D*H(mm)	900×400×600	1200×500×1000	1600×500×1000	2000×500×1200
External Size W*D*H(mm)	2450×1553×1430	2830×1556×1830	3230×1556×1830	3630×1559×2030
Temperature Range	Test Chamber Temperature Range: RT~85°C Saturated air barrel temperature: RT~63°C			
Humidity Range	20%RH~98%RH			
Temperature Deviation	≤±2.0°C			
Humidity Deviation	≤±3%RH			
Temperature Uniformity	≤±2.0°C			
Humidity Uniformity	≤±3%RH			
Temperature Fluctuation	≤±0.5°C			
Humidity Fluctuation	≤±2%RH			
Heating Rate	RT~+85°C≤55min			
Salt Spray Settlement	1~2ml/80m ² (Collect at least 16 hours, take the average)			
Spray Pressure	70~170Kpa			
Spray Mode	Continuous Spray			
Test Timing	1~999 (S、M、H) Adjustable			
PH Values	Neutral Test 6.5~7.2 Acid Test 3.0~3.3			
Refrigeration Mode	Compressor refrigeration			
Power Supply	AC380V 50Hz			
Standard Compliance	GB/T2423.17-2008/IEC 60068-2-11 / ASTM.B117-2009 / JIS H8502 / GB/T10125-2012 / GB-T5170.8-2008 /GB-T5170.11-2008 /GB-T10587-2006 /GBT 20121-2006 / ISO11474-1998 ...			

Ozone Aging Test Chamber

Ozone is a major factor in rubber cracking although it is rare in the atmosphere. Ozone test chamber can be used to test rubber products with static tensile deformation, such as vulcanized rubber, thermoplastic rubber, cable insulating bush; Expose the test specimens to the sealed air in the ozone chamber without light and with constant ozone concentration and constant temperature according to predetermined time, and then observe the cracks on test specimens' surface and the degree of change of other properties to evaluate the rubber's ozone aging resistance properties.



Product	Ozone Aging Test Chamber				
Model	MQ-CY-150	MQ-CY-225	MQ-CY-408	MQ-CY-500	MQ-CY-1000
Volume (L)	150	225	408	500	1000
Internal Size W*D*H (mm)	500×500×600	500×600×750	600×830×850	700×800×900	1000×1000×1000
External Size W*D*H (mm)	950×1100×1600	950×1200×1750	1050×1330×1850	1100×1350×1900	1500×1500×2100
Temperature Range	RT+10°C~+100°C				
Temperature Indicator	Fluctuation ≤±0.5°C; Deviation ≤±2°C				
Ozone Concentration	1~1000pphm adjustable				
Ozone Concentration Deviation	≤5%pphm				
Rotary Speed	1~30r/min adjustable				
Tensile Speed	1~30 times /min adjustable				
Tensile Distance	1~150mm adjustable				
Stretch Length	1~100mm adjustable				
Standard Compliance	GB/T 7762-2003 / GB/T2951.21-2008 / IEC 60811-2-1 / ISO 1431-1...				

SO2 Corrosion Test Chamber

SO2 corrosion chamber is widely applied to the accelerated corrosive testing of the protective layer from metallic material, as well as parts, electrical components and industrial products. It can reproduce the corrosion process happened to the painted or untreated metal surface.



Product	SO2 Corrosion Test Chamber		
Model	MQ-SO2-270	MQ-SO2-480	MQ-SO2-6000
Volume (L)	270	480	6000
Internal Size W*D*H (mm)	900×600×500	1200×800×500	1500×2000×2000
Internal Size W*D*H (mm)	1500×900×1200	1900×1200×1350	2300×2850×2530
Temperature Range	RT+10°C~50°C		
Testing Time	0.1~999.9 (H、M、S) adjustable		
Gas Concentration	0. adjustable		
Gas Generation	Titration / Cylinder Method		
Control Instrument	Touch Screen Controller		
Precision Range	Setting Accuracy: temperature ±0.1 °C; Indicating Accuracy: temperature ± 0.1 °C		
Heating System	Fully independent system, ni-cr electric heater		
Sample Holder Angle	15°、30°		
Gas Control	Own made high precision flow controller		
Safety Protection	Leakage, short circuit, over temperature, water shortage, over current protection		
Power Supply	AC220V AC380V ±10% 50 ±0.5HZ		
Standard Compliance	GBT2423.33-2005 / DIN50018 / GB 9789-1988...		

Waterproof Test Chamber

Waterproof Test Chamber includes the following Test grades: IPX1, IPX2, IPX3, IPX4, IPX5, IPX6, IPX7 and IPX8. It is widely used in the authentication test organization for the products such as electrical & electronic products such as LED Luminaires as well as in the relevant quality control department for the waterproof detection of the enclosure's protection grades.

IPX1 IPX2 Drip-water Rain Test Chamber

Product	IPX1 IPX2 Drip-water Rain Test Chamber	
Model	MQ-IPX1	MQ-IPX2
Pilot Project	IPX1	IPX2
Testing Time	10min	4 directions 2.5min each, the specimen tilt 15°
Rainfall	1.0+0.50/min	3.0+0.50/min
Rain Drip Distance	200mm	
Rain Drip Area	Customized according to the sample size	
Water-Drip Distance	Lifting adjustable, Max distance is about 1000mm	
Needle Nozzle Distance	20*20mm	
Diameter of needle nozzle	Φ0.4mm	
Test Platform Deck	Rotate Speed 3~5 r.p.m adjustable ; The test bench level can be adjusted by 15° (to meet IPX2 test requirements)	

IPX3 IPX4 IPX4K Water Splash Rain Test Chamber

Product	IPX3 IPX4 IPX4K Water Splash Rain Test Chamber					
Model	MQ-IPX3		MQ-IPX4		MQ-IPX4K	
Diameter of Swing Pipe (R/mm)	IPX3		IPX4		IPX4K	
	Aperture	Water Flow	Aperture	Water Flow	Aperture	Water Flow

	No.	Rate (L/min)	No.	Rate (L/min)	No.	Rate (L/min)
200	8	0.56	12	0.84	12	4.8
400	16	1.1	25	1.8	25	15
600	25	1.8	37	2.6	37	22.2
800	33	2.3	50	3.5	50	30
1000	41	2.9	62	4.3	62	37.2
1200	50	3.5	75	5.3	75	45
1400	58	4.1	87	6.1	87	52.2
1600	67	4.7	100	7.0	100	60

IPX5 IPX6 IPX6K Water Spray and Flush Test Chamber

Product	IPX5 IPX6 IPX6K Water Spray and Flush Test Chamber		
Mode	MQ-IPX5	MQ-IPX6	MQ-IPX6K
Pilot Project	IPX5	IPX6	IPX6K
Nozzle Diameter	Φ6.3mm	Φ12.5mm	Φ6.3mm
Water Flow Rate	12.5L/min±5%	100L/min±5%	75L/min±5%
Pressure	About 100kPa	About 100kPa	About 1000kPa
Nozzle No.	1pc	1pc	1pc
Testing Time	1min/m ² , at least 3min		
Test Platform Deck	Rotate Speed 3~5 r.p.m adjustable		

IPX7 Soaking Test Chamber

Product	IPX7 Soaking Test Chamber
Model	MQ-IPX7
Internal Size	Customized according to the sample size
Testing Time	30min, and also adjustable
Test Requirement	Distance between the top of products and water ≥15cm; Distance between the bottom of products and water ≥100cm

Enclosure Material	304 Stainless Steel
Water Tank Level Control	Cooperate between stainless steel float ball and overflow hole
Water Source	Deionized pure water or tap water

IPX8 Pressurized Water Immersion Test Chamber

Product	IPX8 Pressurized Water Immersion Test Chamber
Model	MQ-IPX8
Internal Size	Customized according to the sample size
Tank Material	SUS304# Stainless Steel Tank
Simulated Water Depth	30m~300m according to the requirement
Pressure Control	Electronic pressure gauge, PLC, man-machine interface
Accuracy Control	0.01kg
Pressure Deviation	±10%
Testing Time	Time adjustable

IPX9 IPX9K High Temperature and Pressure Strong Spray Waterproof Test Chamber

Product	IPX9 IPX9K High Temperature and Pressure Strong Spray Waterproof Test Chamber	
Model	MQ-IPX9	MQ-IPX9K
Water Flow Rate	14~16L/min	
Water Pressure Value	8~10MPa	
Water Temperature Value	80±5°C	
Impact Force	0.9~1.2N	
Testing Time	30s (adjustable), 120s in total for 4 angles, or corresponding set value	
Spray Ring Angle	0°, 30°, 60°, 90°	

Dust Test Chamber

It is specially designed for reproducing a dust filled environment in a limited workspace for research and development works. It provides an environment to test the exposure of automotive and electronic components to concentrated levels of dust in order to validate product seal integrity.



Product	Sand and Dust Test Chamber	
Model		
Volume (m ³)	0.512m ³	1m ³
Internal Size W*D*H (mm)	800 × 800 × 800	1000 × 1000 × 1000
External Size W*D*H (mm)	1300 × 1050 × 1800	1500 × 1250 × 2000
Test Temperature	40°C±2°C (Dust Desiccation)	
Airflow Velocity	≤ 2m/s	
Dust Requirements	2~4kg/m ³ Screen wire diameter 50um, nominal spacing between lines 75um	
Control System	Operation mode: program mode, fixed value mode	
	Control system: embedded large-screen LCD touch screen	
Air Pressure Difference Item	Single product test	
	Pumping capacity: 80 times the sample shell volume	
	Pumping speed: 40 to 60 times per hour sample shell volume	
	Pressure Difference: ≤ 2kPa (20mbar)	
	Testing Time: 2h	
	The test chamber is equipped with a suction device and a display measurement system that are lower than the air pressure test.	
Standard Compliance	GB/T 4208-2017 / GJB150.12-2009 / GB/T2423.37-2006 JIS D 0207-1977 / ISO-20653-2013 / IEC 60529-2013 DIN-40050-9 ...	

IP5X IP6X Dust Prevention Test Chamber

Product	IP5X IP6X Dust Prevention Test Chamber
Model	
Volume (L)	500L,1000L, OR Customized
Mesh Diameter	50um
Line Space	75um
Powder Dosage	2kg~4kg/m ³
Vibration Time	0~99H59M59S
Air Blower Time	0~99H59M59S

IP5K IP6K Flow Dust Test Chamber

Product	IP5K IP6K Flow Dust Test Chamber
Model	
Volume (L)	200L~1000L OR Customized
Flow Dust Speed	1.5m/s to 10m/s (adjustable)
Flow Dust Concentration	5 ~ 10 g/m ³ (adjustable)
Temperature	RT to 80°C
Mesh Diameter	50um
Line Space	75um
Powder Dosage	2kg~4kg/m ³
Vibration Time	0~99H59M59S
Air Blower Time	0~99H59M59S



Military Standard Rain Test Chamber

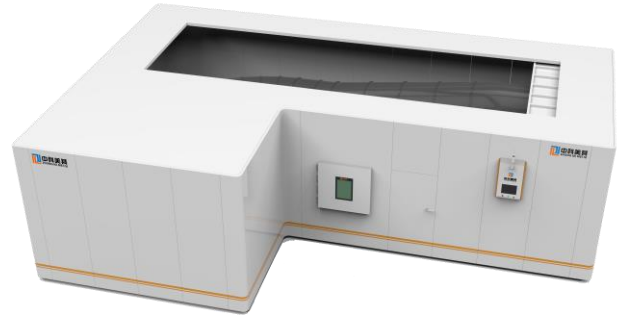
This one-piece Rain Test Chamber meets the requirements of the MIL-STD-810F standard (method 506.4) which defines laboratory tests intended to certify materials of military use, as well as civilian, against environmental damages due to water.



Product		Military Standard Rain Test Chamber
Model		
Rain and Blow Rain	Raindrop	0.5~4.5mm
	Wind Speed	≥18m/s±10%, Allows the raindrops to form a 45° angle evenly to blow the specimen
	Specimen Temperature	Above water temperature 10°C±2°C (water temperature +10°C~
	Bench Rotary Speed	1~5rpm/min (adjustable)
	Rainfall	100mm/m²/h~300mm/m²/h
Intensity	Test Spray	6 sides up and down, left and right
	Nozzle Water	About 276Kpa
	Nozzle	710×710mm
	Distance Nozzle and Specimen	480mm
	Spray Shape	The nozzle spray area is a positive cone square raindrop
Drip	Aperture Drop	20~25.4mm
	Rain Drops	>280L/m²/h
	Dripping Speed	9m/s
	Specimen Temperature	Above the water temperature 10°C±2°C (water temperature
	Drop Rain Height	>1m
	Spray Time	Continuous rain time ≥60min
Standard Compliance		IEC 60529-2013 / GB/T4942-93 /GB4208-2008 /GB/T10485-2007 / GB5170.20-90 ...

Military Standard Dust Test Chamber

Conform to MIL-STD-810 ,blowing sand and dust chambers which are fully calibrated with the unique ability to record test temperature, humidity, wind speed and particle concentration values in real time.



Product		Military Standard Dust Test Chamber		
Mode		MQ-JBSC-500	MQ-JBSC-1000	MQ-JBSC-4000
Volume(L)		500	1000	4000
Internal Size W*D*H (mm)		800×800×800	1000×1000×1000	1000×4000×1000
External Size W*D*H(mm)		About 8000×3500×2400	About 8500×3900×2600	About 8700×13000×3800
Blowing Dust	Working Chamber Temperature	+20°C~+80°C adjustable		
	Working Chamber Humidity	≤30% R.H		
	Blowing Dust Speed	1.5m/s~8.9m/s		
	Sand and Dust Concentration	10.6g/m ³ ±7g/m ³		
Blowing Sand	Working Chamber Temperature	+20°C~+80°C adjustable		
	Working Chamber Humidity	≤30% R.H		
	Blowing Sand Speed	18m/s~29m/s		
	Sand and Dust Concentration	1.1g/m ³ ±0.3g/m ³		
		2.2g/m ³ ±0.5g/m ³		
		0.18g/m ³ ±0.15g/m ³		
Falling Dust	Falling Dust Temperature	23°C±2°C		
	Working Chamber Humidity	≤30% R.H		
	Falling Dust Rate	6g/m ² /d		
Standard Compliance		GB/T 4208-2017 / GJB150.12-2009 / GB/T2423.37-2006 / JIS D 0207-1977 / ISO-20653-2013 / IEC 60529-2013 / DIN-40050-9 / MIL-STD-810F-510.4 ...		

Xenon Lamp Aging Test Chamber

Xenon Test Chamber uses xenon arc lamp as a light source. It is an equipment for simulation and strengthening of weathering accelerated aging test. After testing, you can receive the accurate atmospheric aging test results, used to evaluate the weather resistance of the testing material/ samples.



Product	Xenon Lamp Aging Test Chamber		
Model	MQ-XD-250	MQ-XD-500	MQ-XD-1000
Volume (L)	250	500	1000
Internal Size W*D*H (mm)	600×600×600	800×800×800	1000×1000×1000
External Size W*D*H (mm)	1120×1150×1450	1220×1250×1500	1320×1350×1950
Temperature Range	RT+10°C~+100°C		
Humidity Range	55%~90%RH		
Temperature Fluctuation	≤±0.5°C		
Wavelength	290~800nm		
Irradiation Intensity	500W/m ² ~1120W/m ²		
Rainfall	Cycle or Continuous Rainfall, adjustable rainfall time		
Standard Compliance	GB/T 2424.14-1995 / GB/T 2423.24-2013 /GB/T 8427-2008 GB/T 16422.2-2014 / GB/T 1865-2009 / GB/T 12831-1991 GB/T 5137.3-2002 / GB/T 16259-2008 /ISO 4892-2:2013 ASTM G155-00a /MIL-STD-810F-505.4...		

UV Aging Test Chamber

UV Test Chambers have been developed to provide a UV weathering. The UV simulates the effect of sunlight with fluorescent ultraviolet (UV) lamps, while rain and dew are simulated by the condensation of humidity.



Product	UV Aging Test Chamber			
Mode	MQ-UV1	MQ-UV2	MQ-UV500	MQ-UV1000
Volume (L)	170	500	500	1000
Internal Size W*D*H (mm)	1140×400×390	1140×640×690	800×800×800	1000×1000×1000
External Size W*D*H (mm)	1300×500×1470	1300×700×1630	1300×1400×1800	1500×1500×2100
Temperature Range	RT+10°C~+70°C		+50~+80°C	
Humidity Range	≥90%RH		45%~95%RH	
Temperature Fluctuation	±3°C		±2°C	
Distance from the center of the tube	70mm		/	
Distance between the specimen and the center of the tube	50mm±3mm	Up and down adjustable	50mm±3mm/up and down adjustable	
Standard Specimen Size	Option 1: 75×290mm, total 24pcs Option 2: 75×150mm, total 48pcs	No specimen size requirement		
Tube Parameters	UVA-340(315~400nm)、UVB-313(280~315nm) optional		360~420nm	
Tube Numbers	8pcs		1pc	
Irradiation Intensity	Maximum power output/display adjustable			
Standard Compliance	ISO 4892-3:2016 / GB/T 16422.3-2014 / GB/T 16585-1996 GB/T 14522-2008 / ASTM G154-00a / ASTM D4329-2005 ASTM D4799-2003 / ASTM D5208-2001 / SAE J2020:2003 / ASTM D4587-2005...			

Mould Test Chamber

Mould Test Chamber is a kind of incubator, which mainly cultivates organisms and plants, and sets corresponding temperature and humidity in a closed space, so that the mold grows out in about 4-6 hours, and it is used for artificially speeding up the propagation of molds. The mold resistance and mildew of electronic products. It is an important testing method in the artificial three-season climate. It is a storage strain and biological cultivation for colleges and universities, medicine, military, electronics, chemical, and biological research departments. It is a necessary test equipment for scientific research laboratories. It is used to test and judge its parameters and performance after changing environment in hot and humid temperature.



Product	Mould Test Chamber			
Model	MQ-MT100	MQ-MT225	MQ-MT500	MQ-MT1000
Volume (L)	100	225	500	1000
Internal Size W*D*H (mm)	450×450×500	500×600×750	800×700×900	1000×1000×1000
External Size W*D*H (mm)	1250×1050×1680	1350×1180×1950	1480×1450×2150	1870×1650×2280
Temperature Range	+10°C~+80°C			
Humidity Range	45%~98%RH			
Temperature Fluctuation	≤±0.5°C			
Temperature Uniformity	≤±2°C			
Humidity Fluctuation	±2%RH			
Humidity Uniformity	±3%RH			
Air Speed	0.5~1.0 m/s			
Standard Compliance	GB/T 10592-2008 / GB/T 10586-2006 / GB/T2423.2-2008 GB/T2423.3-2008 / GB/T2423.16-2008...			

Wave-Transparent Temperature Test Chamber

The Wave-Transparent Temperature Test Chamber is customized to verify the environmental adaptability of the relay terminal. In order to simulate the high and low temperature working environment, the radio frequency performance deterioration and phase change heat storage performance of the relay terminal under high and low temperature conditions are verified by the star-ground large loop. Whether the equipment works normally



Product	Wave-Transparent Temperature Chamber			
Model	MQ-DMT500		MQ-DMT1000	
Volume(L)	500		1000	
Internal Size W*D*H (mm)	750×750×900		1000×1000×1000	
External Size W*D*H (mm)	950×1400×1900		1200×1500×1950	
Temperature Range	A、-40°C~150°C B、-70°C~150°C			
Temperature Fluctuation	≤±0.5°C			
Temperature Deviation	≤±2.0°C			
Heating /cooling Rate	≥1.0°C/min	≥2.0°C/min	≥5.0°C/min	≥10.0°C/min
Wave-Transparent Depletion	≤2.5dB (Ka band) OR Customized			
Wave-Transparent Angle	Customized			
Wave-Transparent Window	Customized Position Size			
Wave-Absorbing Side	Customize			
Refrigeration Mode	Compressor refrigeration			
Structure Style	Integrated OR Split Type			

Temperature Chamber for Multi-Axis Rate Table System

This direct-drive multi-axis motion simulator features a temperature chamber for simultaneous performance testing of several medium-sized Inertial Measurement Units (IMUs) or Micro Electro Mechanical Systems (MEMS) sensors under different environmental conditions.



Product	Temperature Chamber for Multi-Axis Rate Table System			
Model	MQ-ZT			
Volume (L)	252	393	578	1000
Internal Size W*D*H (mm)	600×600×700	750×750×700	850×850×800	1000×1000×1000
Rate Table Type	Single-Axis / Double-Axis / Three-Axis Rate Table			
Angle Range	Inner ring: continuous infinite; Outer ring: infinite continuity			
Temperature Range	A、-70°C~150°C B、-80°C~150°C			
Temperature Fluctuation	±0.5°C			
Temperature Uniformity	≤2.0°C			
Temperature Deviation	≤±2.0°C			
Heating Rate	≥2.0/5.0/10.0°C/min			
Cooling Rate	≥2.0/5.0/10.0°C/min			
Refrigeration Mode	Compressor Refrigeration			
Cooling Way	Air-Cooling / Water-Cooling			
Unit Installation Mode	Indoor Integrated; Indoor Split Type; Outdoor Split Type			
Standard Compliance	GB/T 10589-2008 / GB/T 10592-2008 / IEC60068-2-1 IEC60068-2-2 / IEC60068-2-14 / MIL-STD-810F-501.4 MIL-STD-810F-502.4 / GJB 360B-2009 / JJF 1101-2003 GB/T 5170.2-2008...			

Temperature Humidity Chamber for Universal Test Machine

It enables the testing of material and components under a variety of real-world conditions. cooperating with environmental chamber and universal test machine, which can realize variety of tests at high or low temperature or humidity



Product	Temperature Humidity Test Chamber for Testing Machine
Mode	MQ-TMT
Internal Size W*D*H (mm)	Customized size according to the testing machine
Temperature Range	A、-40°C~150°C B、-70°C~150°C
Humidity Range	20%~98%RH
Temperature Fluctuation	≤±0.3°C
Temperature Uniformity	≤2.0°C
Temperature Deviation	≤±2.0°C
Heating Rate	≥2.0°C/min
Cooling Rate	≥2.0°C/min
Refrigeration Mode	Compressor Refrigeration
Cooling Way	Air-Cooling
Standard Compliance	GB/T 10589-2008 / GB/T 10592-2008 / GB/T 2423.1-2008 GB/T 2423.2-2008 / GJB 150.3A-2009 / GJB 150.4A-2009 GJB 360B-2009 / JJF 1101-2003 / GB/T 5170.2-2008...

Temperature Humidity Vibration Test Chamber

During transportation or at the site of the end user, a product will come under some type of vibration motion. Using vibration test chambers, manufacturers can determine if a product can withstand the rigors during its normal life span. Often, vibration testing is combined with another test criteria such as temperature, humidity to provide complete vibration, temperature and humidity environmental testing. It also can be custom-designed to meet your application.



Product	Temperature Humidity Vibration Test Chamber		
Model	MQ-THV500	MQ-THV1000	MQ-THV2000
Volume (L)	500	1000	2000
Internal Size W*D*H (mm)	750×750×900	1000×1000×1000	1300×1300×1200
External Size W*D*H (mm)	950×2400×1950	1200×2600×2150	1500×3500×2400
Temperature Range	A、-40℃~150℃ B、-70℃~150℃ C、-90℃~150℃		
Humidity Range	A、10%~98%RH B、20%~98%RH C、30%~98%RH		
Temperature Fluctuation	≤±0.5℃		
Humidity Fluctuation	≤±2%RH		
Temperature Uniformity	≤2.0℃		
Temperature Deviation	≤±2.0℃		
Humidity Deviation	Humidity > 75%RH: ≤+2,-3%RH; Humidity < 75%RH: ≤±5%RH		
Heating Rate	2、5、10、15、20℃/min		
Cooling Rate	2、5、10、15、20℃/min		
Vibration Frequency	3~2500HZ; 3~3000HZ; 5~4500HZ;		
Max Acceleration	500m/s ² ; 700 m/s ² ; 1000m/s ² ;		
Max Displacement	25mm; 51mm;		
Tabletop Size	φ320mm; φ445mm; φ550mm;		
Refrigeration Mode	Compressor Refrigeration		
Cooling Way	Air-Cooling / Water-Cooling		
Standard Compliance	GB/T 10589-2008 / GB/T 10592-2008 / IEC60068-2-1 / IEC60068-2-2 / IEC60068-2-78/ IEC60068-2-30 IEC60068-2-14 / MIL-STD-810F-501.4 / MIL-STD-810F-502.4 / MIL-STD-810F-507.4 / GJB 360B-2009 JJF 1270-2010 / GB/T 5170.2-2008...		

Integrated Environmental Simulation Laboratory

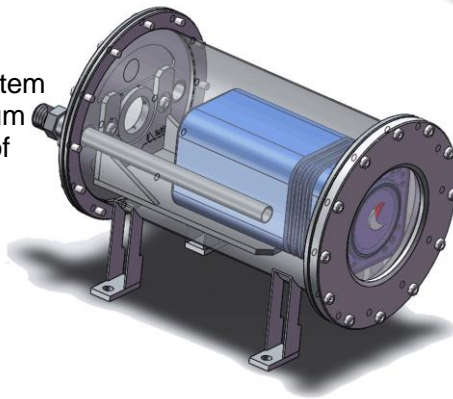
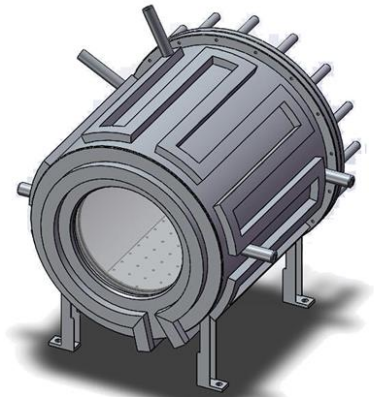
Comprehensive environmental simulation laboratory is widely used in aviation, aerospace, electronics, instrumentation, electrical products, materials, automotive parts, plastic and rubber products, chemicals, building materials, medical, photovoltaic and other industries for high temperature, low temperature, high and low temperature humidity, low pressure, light, rain, salt spray corrosion and dust environmental simulation reliability test.



Product	Integrated environmental simulation laboratory						
Model	MQ-IESL8	MQ-IESL12	MQ-IESL22	MQ-IESL48	MQ-IESL81	MQ-IESL120	MQ-IESL162
Volume (m ³)	8	12.5	22	48	81	120	162
Internal Size W*D*H	2×2×2	2.5×2.5×2	3×3×2.5	4×4×3	4.5×4.5×4	5×5×4	6×6×5
Optional Function	High temperature, low temperature, high and low temperature, high and low temperature damp heat, low pressure, light, rain, salt spray corrosion, sand dust						
Temperature Range	A、-40°C~100°C B、-70°C~100°C C、-90°C~100°C D、-120°C~100°C						
Humidity Range	20%~98%RH						
Pressure Range	Atmospheric Pressure~0.5KPa						
Temperature Fluctuation	±0.5°C						
Humidity Fluctuation	≤±2%RH						
Temperature Uniformity	≤±2.0°C						
Temperature Deviation	≤±2.0°C						
Humidity	Humidity>75%RH: ≤+2,-3%RH; Humidity<75%RH: ≤±5%RH						
Heating Rate	≥2.0°C/ Min						
Cooling Rate	≥1.0°C/ Min						
Refrigeration Mode	Compressor Refrigeration						
Cooling Way	Air-Cooling /Water-Cooling						

Photogrammetry Testing Equipment Protective Cans

It is widely used in spacecraft deformation measurement, large aircraft wing dynamic measurement, large radar antenna array measurement, satellite antenna thermal vacuum deformation measurement and other fields of aviation, aerospace and satellite communications. Aiming at the particularity of thermal deformation photogrammetry in space, a thermal deformation measuring camera vacuum protection canister with monitoring system is designed to ensure that the thermal deformation measurement system camera can work normally under the hot vacuum environment. It is also used for the protection of measuring cameras in large atmospheric and high temperature environment test equipment to ensure the normal operation of the camera under normal pressure and high temperature environment.



Product	Photogrammetry Testing Equipment Protective Cans	
Model	MQ-ATMO	MQ-VACU
Working Environment	Atmospheric Pressure with High and Low Temperature	Vacuum with High and Low Temperature
Outer Size of the Can	φ300mm×300mm	φ400mm×300mm
Outer Vacuum Degree of the Can	≤1.3×10 ⁻³ Pa	
Outer Temperature Range of the Can	-160°C~+150°C	
Inner Temperature Range of the	+15°C~+30°C	
Protective Can Weight	≤20kg (not include photogrammetry)	≤25kg (not include photogrammetry)
Material of the Can	Stainless Steel	
Material of the window	Imported optical quartz glass	
Power Supply	220±10% VAC L+N+G	
Standard Configuration	1 set of Photogrammetry fixing tool in the can, 1 copy of the manual, 1 certificate	
Safety Protection	Inner temperature protection, overtemperature alarm of the Can	
Optional Accessory	Inner rotary table, communication interface of the Can	

Vibration Test Bench

It is widely used in defense, aviation, communications, electronics, automotive, home appliances, and other industries. This type of equipment is used to find early faults, simulate actual working condition assessment and strength test. The product has a wide range of applications, wide application range, and remarkable and reliable test results. Sine wave, frequency modulation, frequency sweep, programmable, multiplier, logarithm, time control.



	Model	Frequency (Hz)	Rated Sine Force (KN)	Random Force (KN)	Shock Force (KN)	Max Acceleration(m/s ²)	Max Displacement (mm)	Max Speed (m/s)	Moving Parts Weight (kg)	Table Dimension (mm)
Air Cooling	V1-150	5~4500	1	1	2	500	25	2	2	150
	V2-230	3~2500	2	2	4	250	40	1.5	8	230
	V3-230	3~2500	3	3	6	350	40	1.5	8.5	230
	V6-230	2~3500	6	6	12	1000	51	1.8	6	230
	V10-240	5~3000	10	10	20	1000	51	1.8	10	240
	V20-320	5~3000	20	20	40	1000	51	2	20	320
	V20-445	5~2800	20	20	40	700	51	2	28	445
	V30-370	5~2800	30	30	60	1000	51	2	30	370
	V30-550	5~2000	30	30	60	500	51	2	55	550
	V40-370	5~2800	40	40	80	1000	51	2	35	370
	V40-445	5~2700	40	40	80	800	51	2	50	445
	V50-445	5~2700	50	50	100	1000	51	2	50	445
	V60-445	5~2700	60	60	120	1000	51	2	60	445
Air Cooling Large Displacement	V20L S3-340	5~3000	20	20	40	800	76	2	25	340
	V30L S4-445	5~3000	30	30	60	750	100	1.8	40	445
	V40L S4-445	5~3000	40	40	80	900	100	1.8	45	445
	V50L S3-445	5~3000	50	50	90	900	76	2	55	445

	Model	Frequency (Hz)	Rated Sine Force (KN)	Random Force (KN)	Shock Force (KN)	Max Acceleration(m/s ²)	Max Displacement (mm)	Max Speed (m/s)	Moving Parts Weight (kg)	Table Dimension (mm)
	V60L S3-445	5~2500	60	60	100	1000	76	2	55	445
	V60L S3-550	5~2500	60	60	120	730	76	1.8	82	550
	V70L S3-550	5~2500	70	70	140	850	76	1.8	82	550
Water Cooling	V50W-445	2~2700	50	50	100	1000	51	2	60	445
	V70W-445	2~2700	70	70	140	1000	51	2	60	445
	V80-480	2~2500	80	80	160	1000	51	2	80	480
	V100-550	2~2500	100	100	200	1000	51	2	80	550
	V120-550	2~2500	120	120	240	1000	51	2	90	550
	V160-650	2~2200	160	160	320	1000	51	2	150	650
	V180-590	2~2200	180	180	360	1000	51	2	140	590
	V200-650	2~2100	200	200	400	1000	51	2	150	650
	V300-870	2~1700	300	240	600	1000	51	2	300	870
	V350-870	2~1700	350	250	700	1000	51	2	300	870
	V400-870	2~1700	400	300	800	1000	51	2	330	870
Water Cooling Large Displacement Serie	V50W LS3-445	2~2500	50	50	100	850	76	2	60	450
	V60W LS3-550	2~2500	60	60	120	1000	76	2	60	550
	V100L S3-550	2~2500	100	100	200	1000	76	2	90	550
	V120L S3-550	2~2500	120	120	240	1000	76	2	90	550
	V200L S3-650	2~2100	200	200	400	1000	76	2	150	650

Drop Test Bench

The drop test bench is used to simulate the performance of large and heavier packaging products against drop and impact, and can achieve the drop test of the surface, edge and angle of the test product. It is used to evaluate the ability of product packages to withstand falling during transportation and handling, thus improving and perfecting the packaging design.



Product	Drop Test Bench		
Model	MQ-D1500	MQ-D2000	MQ-D2500
Drop Height (mm)	300~1500	300~2000	300~2500
Max Size of Specimen (mm)	1000×800×1000	1000×800×1000	1200×800×1000
Plate Size (mm)	1700×1200×40	1700×1200×16	
Max Load (kg)	60	100	
Drop Way	Electrodynamic Type (E)	Pneumatic Type (P)	
Test Method	Side, Edge, Angle		
Height display mode	Digital		
Control Cabinet	Split Type		
Weight (kg)	600	800	900
Power Supply	380VAC ±10% 50Hz		



Universal Testing Machine

A Universal Testing Machine (UTM) is used to test both the tensile and compressive strength of materials. Universal testing Machines are named as such because they can perform many different varieties of tests on an equally diverse range of materials, components, and structures. Most UTM models are modular, and can be adapted to fit the customer's needs.

Product	Universal Testing Machine
Model	
Test Force Range	0 ~ 2000kN
Test Force Accuracy	±1%
Speed Test Range	10.10—500mm/min adjustable
Test Stroke	200 ~ 1000mm
Compression Space	300 ~ 900mm
Flat Specimen clamping thickness	0 ~ 60mm
Round Specimen	φ0 ~ φ70mm
Power Supply	380VAC ±10% 50Hz
Working Environmental	Ambient temperature: 5 ~ 35°C, relative humidity: ≤40%RH, no strong vibration, electromagnetic radiation, no dust and corrosive substances around

Inclined Impact Test Bench

Incline Impact testers are used to simulate the ability of product packaging to resist impact damage in actual environments, such as handling, stacking of shelves, sliding of motors, loading and unloading of locomotives, transportation of products, etc., as well as scientific research institutions, colleges and universities, Packaging technology testing center, packaging material manufacturing plant, and foreign trade, transportation and other departments to carry out common test equipment for ramp impact.



Product	Inclined Impact Test Bench							
Model	MQ-I100	MQ-I200	MQ-I300	MQ-I500	MQ-I800	MQ-I1000	MQ-I1500	MQ-I2000
Max Load (kg)	100	200	300	500	800	1000	1500	2000
Shock Panel Size (mm)	1600×2000		2100×2000		2400×2000		2400×2000	
Max Slide Length (mm)	2000 (OR negotiate)							
Slope Angle	$10^{\circ} \pm 1^{\circ}$							
Final Shock Velocity	2.608			2.334				
Shock Speed Deviation	$\leq \pm 5\%$							
Pulley Tabletop Size (mm)	1000×1000		1200×1200		1500×1500		2000×2000	
Overall Size (mm)	6520×1600×2500		6320×2100×3000		7600×2400×3200		11500×2500×3500	
Power Supply	380VAC $\pm 10\%$ 50Hz							
Working Environment	Ambient temperature: 0~40°C, relative humidity: $\leq 80\%RH$, no strong vibration, electromagnetic radiation, no dust and corrosive substances around							

Simulated Transportation Test Bench

The simulated transportation test bench is an assessment of the actual road conditions of the specific load of each item in the laboratory to simulate the impact of the car on the road, such as impact, vibration and other actual road conditions, in order to obtain the actual working conditions in the laboratory for the loading and unloading and transportation of the goods. The impact of packaging, packaging, or internal products, thereby providing a basis for assessment or confirmation of the packaging of the item.



Product	Simulated Transportation Test Bench								
Model	MQ-S200	MQ-S300	MQ-S600	MQ-S1000	MQ-S1500	MQ-S2000	MQ-S3000	MQ-S4000	MQ-S6000
Max Load (kg)	200	300	600	1000	1500	2000	3000	4000	6000
Vibration Waveform	Broad-band Random Vibration								
Car Speed Simulation (km/h)	20~40								
Road Simulation	Intermediate and lower grade pavements of intermediate roads and four-level highways								
Time Acceleration Level	1:1 (OR Negotiate)								
Specimen Height of the center of Gravity (mm)	<500	<600	<700	<700	<700	<700	<800		
Working Table Size (mm)	1500×700	1500×700	2000×1500	2400×1700	2700×1800	2700×1800	4000×2500		
Overall Dimensions (mm)	1920×850×960		2550×1920×1400		3000×2000×1600		4500×2500×2200		
Test Bench Weight (KG)	1600	1800	5500	6000	7000	7550	13000		
Power Supply	380VAC ±10% 50Hz								
Working Environment	Ambient temperature: 0~40°C, relative humidity: ≤80%RH, no strong vibration, electromagnetic radiation, no dust and corrosive substances around;								

Hydraulic Vertical Impact Test Bench

The hydraulic vertical impact test rig is used to simulate the impact of the product in the actual environment, and to assess the reliability and structural integrity of the product under impact environment. Impact tests such as conventional semi-positive wave, post-peak sawtooth wave, square wave, and shock response spectrum function can be performed.



Product	Hydraulic Vertical Impact Test Bench														
Model	MQ-A5			MQ-A50			MQ-A100			MQ-A400			MQ-A1000		
Max Load (kg)	5			50			100			400			1000		
Tabletop Size (mm)	200×200			400×400			500×500			600×800			1000×1000		
Surge Waveform	Half Sine	Final Peak Sawtooth	Half Sine	Final Peak Sawtooth	Trapezoid	Half Sine	Final Peak Sawtooth	Trapezoid	Half Sine	Final Peak Sawtooth	Trapezoid	Half Sine	Final Peak Sawtooth	Trapezoid	
Shock Acceleration (m/s ²)	150 ~ 1500	150 ~ 1000	100 ~ 1200	150 ~ 1000	300 ~ 100	100 ~ 1100	150 ~ 1000	300 ~ 100	100 ~ 6000	150 ~ 1000	300 ~ 100	100 ~ 2000	150 ~ 600	300 ~ 600	
Pulse Duration (ms)	18 ~ 0.8	18 ~ 6	40 ~ 1	18 ~ 6	12 ~ 6	40 ~ 1	18 ~ 6	12 ~ 6	40 ~ 2	18 ~ 6	12 ~ 6	40 ~ 6	18 ~ 6	12 ~ 6	
Overall Dimension	900×700×2300			1200×800×2600			1300×1100×2600			1500×1200×2700			2000×1500×2800		
Test Bench Weight (kg)	900			2000			2400			5000			10000		
Power Supply	380VAC ±10% 50Hz														

Pneumatic Vertical Impact Test Bench

Pneumatic vertical impact and collision test bench is a shock and collision test equipment with novel design, high degree of automation, simple operation and convenient maintenance. Impact tests such as conventional semi-positive wave, post-peak sawtooth wave, square wave, and shock response spectrum function can be performed.



Product	Pneumatic Vertical Impact Test Bench														
Model	MQ-AK25			MQ-AK50			MQ-AK100			MQ-AK400			MQ-AK1000		
Max Load (kg)	25			50			100			400			1000		
Tabletop Size (mm)	300×350			400×400			500×500			600×800			1000×1000		
Surge Waveform	Half Sine	Final Peak Sawtooth	Half Sine	Final Peak Sawtooth	Trapezoid	Half Sine	Final Peak Sawtooth	Trapezoid	Half Sine	Final Peak Sawtooth	Trapezoid	Half Sine	Final Peak Sawtooth	Trapezoid	
Shock Acceleration (m/s ²)	100 ~ 7500	150 ~ 1500	100 ~ 6500	150 ~ 1500	300 ~ 1000	100 ~ 6000	150 ~ 1000	300 ~ 1000	100 ~ 3000	150 ~ 1000	300 ~ 1000	100 ~ 1000	150 ~ 600	300 ~ 600	
Pulse Duration (ms)	40 ~ 0.8	18 ~ 6	40 ~ 1	18 ~ 6	12 ~ 6	40 ~ 1	18 ~ 6	12 ~ 6	40 ~ 2	18 ~ 6	12 ~ 6	40 ~ 6	18 ~ 6	12 ~ 6	
Overall Dimension (mm)	900×750×2000			1000×800×2000			1200×800×2000			1500×1300×2100			2000×1650×2200		
Test Bench Weight (kg)	1300			1800			2300			5000			10000		
Power Supply	380VAC ±10% 50Hz														

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