

Temperature Aging Chambers

Aging Chambers Overview:

Accelerated aging is testing that uses aggravated conditions of heat, humidity, oxygen, sunlight, vibration, etc. to speed up the normal aging processes of items. It is used to help determine the long-term effects of expected levels of stress within a shorter time, usually in a laboratory by controlled standard test methods. It is used to estimate the useful lifespan of a product or its shelf life when actual lifespan data is unavailable. This occurs with products that have not existed long enough to have gone through their useful lifespan: for example, a new type of car engine or a new polymer for replacement joints.

Temperature Aging Chambers Application:

High temperature aging room can be used to simulate high temperature, severe environment to test material's high temperature endurance performance. It is important experimental equipment to improve product stability and reliability. This equipment is widely used in power electronic, computer, communication, biological pharmacy and other industries.

Temperature Aging Chambers Introduction:

Constant temperature aging room, also known as high-temperature aging room and the aging room, provide simulation of a high-temperature, harsh environment testing equipment for high-performance electronic products (such as: computer machine, monitors, terminals, automotive electronics, power supplies, motherboards, monitors, switching charger etc.) to improve product stability and reliability.

Product Features:

1. Accurate temperature control and high accuracy. Due to the unique design of the air duct system and electric control system, the room temperature can be maintained throughout the high degree of uniformity, much higher than similar products.
2. Wide temperature set range, continuously adjustable.
At room temperature + 5 °C to 60 °C (normal temperature + 5 °C to 85 °C) can be set within the range. If the customer has special requirements, products can be designed to higher temperatures.
3. System protection functions, to ensure safe and stable long-term trouble-free operation.
4. Advanced and reasonable structure design laboratory, ancillary products and functional components have the leading peer-advanced level, able to adapt to long-term, stable, safe and reliable production and demand. To meet the user applications processing requirements, and our aging room has the features of simple operation, easy maintenance, long life, beautiful shape, and human friendly interface, allowing users to monitor the operation and are more simple and intuitive.

5. The main equipment components made by well-known brand manufacturers of high-quality products to ensure quality and performance of the machine
6. Beautiful appearance, convenient construction, short construction period.

Controller Features:

- * Achieve high accuracy (0.1%), high performance
- * Support multiple inputs (T/C, RTD, DCV)
- * Complete multiple output and simultaneously output (Max 4)
- * Simple parameter operation, available text set
- * Support restraining system temperature overshoot function
- * Alarm output 1 point
- * Auxiliary output state operation screen display showed
- * Each interval input adjustment function (Max 4 zones)
- * Control heating, cooling function
- * PID automatic adjustment function (AT Gain)
- * Support multiple communication protocol (such as Modbus)
- * Realize high quality, high reliability (CE, CUL, ISO, etc.)

Safety Device:

1. Empty burn prevent protection
2. Overtemperature protection
3. Circulating fan overload protection
4. Exhaust fan overload protection
5. Circuit breaker
6. No fuse switch
7. Phase sequence protection
8. Buzzer

Wall Materials:

Chamber body use double-sided color steel insulation board (EPS board, polyurethane foam board or rock wool board) assembled together, the thickness of the sheet by the aging room itself needs and requirements of customers two-way selection, the library board plate thickness of 50mm, 60mm, 70mm, 100mm and other specifications, color plate thickness are 0.326mm, 0.5mm and other specifications, the entire library body with steel frame structure, aluminum and other fixed support, library vivo using aluminum or stainless steel package edge; (based in part on ground handling customer requirements), plastic glass sealed joints play, effectively guarantee the tightness and aesthetics of the room.

SPECIFICATIONS							
Model		KMHW-					
		4	6	8	13	17	21
Volume(m ³)		9	12.9	16.8	16.8	35.2	43.3
Interior Dimensions	W(mm)	2100	3000	3900	3000	3900	4800
	H(mm)	2100	2100	2100	2100	2100	2100
	D(mm)	2050	2050	2050	4300	4300	4300
Exterior Dimensions	W(mm)	3250	4160	5050	5050	5050	5950
	H(mm)	2350	2350	2350	2350	2350	2350
	D(mm)	2250	2250	2250	2250	4500	4500
Control System		Balanced Temperature & Humidity Control System					
Temp. range		Maximum:80°C,120°C;Minimum:-60°C,-50°C,-40°C,-30°C,-20°C,-10°C,0°C					
Humidity Range		10%,20%,30%~95%					
Temp. constancy		±0.5°C					
Humidity constancy		±2.5%R.H					
Temp. uniformity		±2.0°C					
Humidity uniformity		±5.0%R.H					
Heat up time		+20°C~+80°C ,Within 60 min					
Pull down time		+20°C~-55°C\ -40°C\ -20°C\ -10°C ,Within 120 or 90 or 60 min					
Interior material		Stainless Steel Plate(SUS 304)					
Exterior material		Baked Painting Steel Or Stainless steel(SUS304)					
Insulation material		Rigid polyurethane foam					
Door size (mm)		Single wing:W800*H1800;Double wing:W1600*H1800;					
Safety Devices(standard)		No fuse breaker, over pressure\over heat and over current protection for compressor, over temperature protection, over load protection for blower, dry heat protection					
Standard accessories		Sight window*1,cable port(portΦ50mm)*1,chamber lamp*1, status indicator					
Refrigeration system		Water Cooled					
		Semi-hermetic compressor, single stage or cascade refrigeration system					
		CFC free refrigerant(HFC-507 and HFC-23)					
Controller	Panel	7-inch LCD Touch panel,Chinese or English display selectable					
	Operation model	Program or fix point running					
	Memory capacity	120 programs,1200steps, all repeat 999 cycles,part repeat 99 cycles					
	Accuracy	Temp.:0.1% of F.S±1 digit Humidity:0.1% of F.S±1 digit					
	Input	Temp.:pt-100, Humidity:pt-100 or ~5V DCV					
	Comm.port	RS-232 or RS-485 (Softawre is option)					
Ambient Temp.		+5°C~+35°C					
Wiring method		AC 380±10%50Hz ,3 phase 4 wires +Ground Wires					
Note:1. We reserve the right to change specifications without prior notice							
2.Customized sizes and configurations available							

Standard Met and Implemented:

GB/Bb T2423.2-89 high temperature test method
GB2423.1-89 test A: low temperature test method 6
GJB150.4-1986 test at low temperature
IEC60068-2-1 low temperature test method
IEC60068-2-38 temperature cycle
IEC60068-2-78 constant humidity temperature

Packing Details:

We use PP Film wrapping the test chamber to protect the test chamber from moisture or being scratched first, then use strong plywood case for easyload and transport, and to keep the chambers from potential crash or impact.

After-sale Service:

If you face any problems in future during testing process we promise we will give you a reply within 48 hours and solution provide within 3 working days. We can offer operation video and English operation manual. We can provide video-conference. If customers require on-site service, the transport and travel expense shall be borne by customer.

Why Choose KOMEG?

Company information:

Being a first-class supplier and reliable partner, we are certified to ISO 9001 and got CE approval for all our products. All equipment are 7 x 24 hours tested before delivery. That explains why Komeg is the private brand of choice for many well-known brand enterprises, and also one of the very few designated suppliers who were recognized by many top 500 enterprises. Let Komeg's 26 years of professional experience work for you too.

Better Idea, Design and Quality

We strive for continuous innovation, releasing no less than five new designs each year. Our strong R&D team and skilled workers is the key to our success. No matter it is standard or custom-made project, we have rich experience in handling such so that customers worldwide can benefit more when working with us. And to ensure your specific test standards are met, the key components and parts we are using are imported famous brands. That's why SGS, Konica Minolta, Senko, Midea, TCL and Huawei are among our long-term clients.

Establish a cultural KOMEG, Build a century brand.

Quality conscious enterprise for quality conscious people.

We'd rather explain for the price than apologize for the Quality life long

Experienced and skilled staff;

High precision & reliability performance;

Prompt after-sale service;

Persist on the philosophy all the time

Besides this, we have a lot of other chamber for your reference:

3-zone/ 2-zone Thermal Shock Chamber

Walk-in Constant Temp. And Humidity Chamber

Rapid Temp. Change Chamber

Precise Drying Test Chamber

Temperature/ humidity/ vibration three integrated Chamber

Precise Drying Chamber

Vacuum oven/ no oxidation oven

Air Exchange Type Aging Oven

Burn-in Room

Salt spray Chamber

Vibration Testing Machine(mechanical and electromagnetic)

KOMEQ Technology Industrial Co.,Ltd.

=====

Tel: +86-769-83971185 ext.110

Mobile: +86-13428616029

Email: fiona@komeqtech.cn

Web: www.komeqtech.com

Add: Building 12, Songshan Lake, Small and Medium-Sized Science and Technology Park, Dongguan, 523808, P.R.China

