

## Programmable Temperature and Humidity Test Chambers

### Application:

Programmable Temperature Humidity Test Chamber ( climatic/ climate/ environment/environmental test chambers) simulate the effects that a range of temperature and humidity conditions have on a product or material, for example telecommunications equipment or photovoltaic solar panels that are exposed to outdoor temperature and humidity conditions. They have applications in industries as disparate as food science, semiconductors, and military quality assurance. A good temperature humidity chamber is essential for evaluating potential success or failure of a product in the field. Climate test chambers come in a variety of sizes, from a small box that fits on the bench top to a room-sized chamber for large objects or for testing large batches of product simultaneously. Temperature ranges from -70° C to 180° C and relative humidity ranges between 20% and 98% are available. A climate test chamber can also be used when constant climate conditions (temperature and/or humidity) are needed for product testing.

### Specifications for Climatic Test Chambers:

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

MIL - STD - 202G - 103B humidity test

IEC60068-2-30 humidity temperature cycle

GB/T2423.3 constant humidity heat test method



Environmental Temperature and Humidity Chamber															
Secifications ( at +20°C room temp. Or+25°C water temp with empty load)															
Model	KMH-R series					KMH-L series					KMH-S series				
	150R	225R	408R	800R	1000R	150L	225L	408L	800L	1000L	225S	408S	800S	1000S	
Temp. range	-20°C~150°C					-40 °C~+150°C					-70°C~+150°C				
Interior size	W(mm)	600	700	700	1000	1000	600	700	700	1000	1000	700	700	1000	1000
	H(mm)	600	700	750	1000	1000	600	700	750	1000	1000	700	750	1000	1000
	D(mm)	460	480	800	800	1000	460	480	800	800	1000	480	800	800	1000
Exterior size	W(mm)	880	980	980	1280	1280	880	980	980	1280	1280	980	980	1280	1280
	H(mm)	1730	1890	1940	2160	2160	1730	1890	1940	2160	2160	1890	1940	2160	2160
	D(mm)	1400	1460	1740	1750	1950	1400	1460	1740	1750	1950	1460	1740	1750	1950
Power(KW)	5.8	6	7.5	12.8	12.8	7.5	7.5	8.5	14.5	14.5	9.5	10.6	18.5	18.5	
Weight(KG)	240	280	400	500	580	250	300	420	530	600	330	450	550	650	
Humidity uniformity	±3.0%R.H			±5.0%R.H		±3.0%R.H			±5.0%R.H		±3.0%R.H		±5.0%R.H		
Heat up time	-20°C~+100°C, within 35 min					-40°C~+100°C, within 45 min					-70°C~+100°C, within 60 min				
Pull down time	+20°C~-20°C, within 45 min					+20°C~-40°C , within 60 min					+20°C~-70°C, within 80 min				
Standard accessories	Sight window*1, cable port(portΦ50mm)*1, shelves*2, chamber lamp*1, power cable *2m														
Safety device (standard)	No fuse breaker, over pressure\over heat and over current protection for compressor, Over temp. protect, over load protect of blower, dry heat protection														
Control System	Balanced Temperature & Humidity Control System														
Refrigeration system	Air Cooled (Water Cooled Type is option)														
	Hermetic compressor, Single stage refrigeration system														
	CFC-Free refrigerant(HFC-507/HFC-23)														
Controller	Panel:7-inch LCD Touch panel, Chinese or English display selectable														
	Operation model :Program or fix point running														
	Memory capacity :120programs,1200steps,														
	All repeat 999 cycles, part repeat 99 cycles														
Humidity Range	20~98%R.H														
Temp. constancy	±0.5°C														
Humidity constancy	±2.5%R.H														
Temp. uniformity	±2.0°C														
Interior material	Stainless Steel Plate(SUS 304)														
Exterior material	Baked Painting Steel Or Stainless steel(SUS304)														
Insulation material	Rigid polyurethane Foam and Glass Fiber Wool														
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 configuration

- Sight window\*1, cable port(portΦ50mm)\*1, shelves\*2, chamber lamp\*1, power cable\*2m
- No fuse breaker, over pressure、over heat and over current protection for compressor, Over temperature protection, over load protect of blower, dry heat protection

### ■Optional accessories

- Cable Port: Φ100mm cable port is available

- Shelves

- Ro-type water purifier: R-80/day

Provide to keep the humidifying heater and wet bulb wick free from scale.

- Inner glass door with operation port

A glass door can be provided behind the main door so that specimens can be observed.

Two operation ports of 130mm

diameter are used for handing specimens inside the chamber without opening the glass door.

- Dehumidifier

The rotation regenerating dehumidifier M-120 ensures precise control of low humidity (5°C 5%RH) for electrostatic reliability tests.

- Temperature and humidity recorder

-100 to +150°C/0 to 100%RH 100mm with effective width 100mm and 2 pen

Temperature 1 pen and humidity 1 pen.

-100 to +150°C/0 to 100%RH 100mm with effective width 100mm and 6 dots

Temperature 3 dots and humidity 1 dot.

-100 to +150°C/0 to 100%RH 100mm with effective width 180mm and 12 dots

Temperature 6 dots and humidity 6 dots.

- Defrosting circuit

The chamber automatically detects and melts the frost on the evaporator when operating below 0°C.

- Liquid or infection

In order to rapidly decrease the temperature inside the chamber, a cylinder of liquid can be connected the chamber.

### **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 muanual. 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.

1. Dedicate touch and excellent user experience
2. Unique and compact design, top grade appearance, stable performance and easy operation
3. Can simulate a wide range of temperature and humidity environments
4. Capable of testing large components, assemblies and finished products
5. Customized sizes and configurations available
6. One year warranties

### 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)

**KOMEG Technology Industrial Co.,Ltd.**

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