

Environmental Chambers



(Picture just for reference)

1. Introduction:

The high and low temperature environmental test chamber is a kind of high temperature to low temperature large range environmental test equipment specially designed and manufactured after the company's many years of actual production experience and combined with customer opinions. environmental testing.

2. Standard:

JJF1101-2003 (Temperature and Humidity Calibration Specification for Environmental Test Equipment)

3. System composition

The electric furnace system consists of: environmental box, temperature measurement and control display system, heating system, refrigeration system, temperature measurement components, air supply circulation system, two-stage refrigeration unit, etc.

4. Structural principle and characteristics

4.1

The chamber body adopts a large front door structure and has an observation window. The observation window is inlaid with a heating plate, which can prevent the observation window from frosting and affect the observation

(Note: The size of the observation window can be designed according to customer needs) The interior of the box body is made of high-quality stainless steel Material, the outside of the box is sprayed with iron plate plastic. The inner cavity and outer wall are insulated with ceramic fiber material, which has a good thermal The thickness of the thermal insulation layer is initially designed to be >80MM.

4.2

The internal mechanism of the box is specially designed, and the internal design adopts the design method of the front cavity and the rear cavity. The front cavity is mainly used for the heating of the front cavity, and has an independent high temperature resistant long- axis motor circulation system (no water cooling jacket structure), which can meet the Uniformity of temperature in high temperature environment. The rear cavity is designed as a closed box structure, and the refrigeration system is mainly installed, with an independent air circulation system.

4.3

In the low temperature test, in order to ensure that the cold air can be fully circulated, the air duct is designed as two upper and lower air ducts, the upper air duct is the air outlet, and the lower air duct is the air suction port, cycle in turn to reach the required test temperature.

4.4

In the high temperature experiment, in order to prevent the high temperature air from entering the low temperature chamber and causing damage to the evaporator, a manual baffle valve is installed in the middle of the upper and lower air ducts, which can effectively prevent the entry of hot air, and can be manually opened during the low temperature experiment.

4.5

In order to avoid external influences on the temperature inside the test chamber and reduce the heat exchange between the temperature inside the box and the outside air environment, the box frame is also specially designed and fabricated to minimize cold bridges and ensure the temperature uniformity in the box.

4.6

High-quality sealing material and sealing structure are used between the door and the door frame, with good sealing and anti-aging properties

4.7

The refrigeration unit is an independent box. The refrigeration unit is connected to the box by a refrigeration hose. connector adopts a low-temperature imported hand valve. The box and the refrigeration unit each have 2



hand valves. The refrigeration unit adopts the French century-old Taikang, and the design adopts a two-stage 4P air-cooled unit. The noise of the unit + fan is >70 decibels.

4.8 High temperature heating adopts high temperature alloy heating tube, which has high oxidation resistance, high safety and long service life.

4.9 The temperature measuring element adopts PT100 thermal resistance, industrial grade 1.

5. Specifications

Power supply	AC 380V/ 50Hz
Rated current	20A
Starting current	15A
Control Method	PID control method
Liquid cooling method	Two-stage compressor cooling method
Temperature range	-40°C ~ +400°C
High temperature error	50~400°C ±3°C
Low temperature error	0~-40°C ±3°C
Cooling time	+20°C ~-40°C about 90min
Heating time	+20°C ~400°C about 90 min
Shell material	Cold-rolled steel plate spraying treatment
Endosomal material	stainless steel plate
Thermal insulation material	Ceramic fiber material
Temperature measuring element	PT100
Control box	Fully automatic digital display thermostat, power cord, switchboard,
Heater power	4kW
Internal dimensions(D ×W × H) mm	400×350×700mm (about)
External dimensions(L ×W × H) mm	1350×510×860 mm (about)

6. Model

MODEL	KASON-40/150GD	KASON-70/150GD	KASON-70/350GD	KASON-70/350GD
Temperature range	-40 °C to 150 °C	-40 °C to 150 °C	-70 °C to 350 °C	-70 °C to 350 °C
Internal Dimensions	350 x 350 x 500 mm	350 x 350 x 500 mm	350 x 350 x 500 mm	350 x 350 x 500 mm
Control Method	PID control method			
Liquid cooling method	Two-stage compressor cooling method			
Shell material	Cold-rolled steel plate spraying treatment			
Endosomal material	stainless steel plate			
Control box	Fully automatic digital display thermostat, power cord, switchboard,			



Authentication Certificate of Quality Management System

Registration No.19922Q01072R0S

This is to certify that

Jinan Kason Testing Equipment Co., Ltd.

Unified Social Credit Code: 9137010458994939X0

Registered/Production Address: No. 4715, Jingshi West Road,
Huaiyin District, Jinan City, Shandong Province

Office Address: Room 2-1108, Harmony Square, Huaiyin District, Jinan City

Is in conformity with :

GB/T 19001-2016/ISO 9001:2015

The certificate is valid for the following scope :

Assembly and sales of testing machines

This certificate should be used effectively with the legal requirements of the administrative license, qualification license, compulsory certification, which the certification scope involved.

In the case that the organization regularly receives surveillance assessments, the certificate shall be valid when used together with the Quick Response Code.

Date of Issue: 2022-07-19

Date of Expiry: 2025-07-18

Date of Initial Certification: 2022-07-19

General Manager



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MACHINERY DIRECTIVE ATTESTATION OF CONFORMITY

Technical file of the company mentioned below has been inspected and audit has been completed successfully.

2006/42/EC Machinery Directive Annex VIII has been taken as references for these processes.

Company Name : **Jinan Kason Testing Equipment Co., Ltd.**
 Company Address : No.4715, Jingshi West Road, Huaiyin District, Jinan, Shandong, China
 Related Directives and Annex : **2006/42/EC Machinery Directive/Annex VIII**
 Related Standards : **EN ISO 12100:2010; EN 60204-1:2018**
 Product Name : **Testing Machine**
 Report No and Date : **TCF-JKTE230605-MD**
 Product Brand/Model/Type : WDS-1, WDS-2, WDS-3, WDS-5, WDS-10, WDS-20, WDS-30, WDS-50, WDS-100, WDS-200, WDS-300, WDW-1E, WDW-2E, WDW-3E, WDW-5E, WDW-10E, WDW-20E, WDW-30E, WDW-50E, WDW-100E, WDW-200E, WDW-300E, WDW-500E, WDW-600E, WDW-1000E, ETM103, ETM203, ETM303, ETM503, ETM104, ETM204, ETM304, ETM504, ETM105, WE-300D, WE-600D, WE-1000D, WE-2000D, HUT305S, HUT605S, HUT105S, HUT126S, WEW-300D, WEW-600D, WEW-1000D, WEW-1200D, WEW-2000D, WEW-3000D, HUT305E, HUT605E, HUT105E, HUT126E, HUT-A306E, HUT-A206E, WAW-300D, WAW-600D, WAW-1000D, WAW-1200E, WAW-2000E, WAW-3000, WAW-2000A, WAW-3000A, WAW-4000A, HUT-A206W, HUT-A306W, HUT-A406W, HUT305W, HUT605W, HUT105W, HUT126W, WAL, LAW, HUT-L, JB-300, JB-300B, JB-500B, JBS-300, JBS-500, JBW-300, JBW-500, JBDW-300, JBDW-500, CST-50, VU-2Y, VU-1S, DWC-40, DWC-60, DWC-80, DWC-100, DWC-196, YES-1000, YES-2000, YES-3000, YAW-1000, YAW-300, YAW-2000, YAW-3000, YAW-5000, NDS-200, NDS-500, NDS-1000, NDS-2000, NDW-200, NDW-500, NDW-1000, NDW-2000, NDW-3000, NDW-5000, NDW-10000, EZ-1, EZ-3, EZ-10, JWJ-10, TLS, TLW, HWS, PLS-20, PLS-50, PLS-100, PLS-300, PLS-500, PLS-1000, KASON-1, RDJ-10, RDJ-20, RDJ-50, RDJ-100, DWTT-20000, DWTT-30000, DWTT-40000, DWTT-50000, DWTT-80000, DWTT-100000, PIT-302, PIT-302M, PIT-502, PIT-502M, PIT-302T, PIT-502T, PIT-302W, PIT-302TW, PIT-502TW, PIT302CW, PIT452CW, PIT602CW, PIT752CW, PIT302CT, PIT452CT, PIT602CT, PIT752CT, PFD302W, PFD502W, PFD302T, PFD502T, PFD302CW, PFD452CW, PFD452CT, PFD752CW, PFD752CT, PFD302G, HCT106, HCT206, HCT306, KSCM, HYJ, HEZ-3, HEZ-5, HEZ-10, HEZ-20, KSBT-10, KASON 370.02, KASON 370.05, KASON 370.10, KASON 370.25, KASON 370.50, MMW, GBW-60B, GBS-60B, HUT, ETM, XNR, GW-40, GW-50, MRS, MMU, MRH, GBW, GW, LSW, HBT, GLY, GCJ-1000, GWQ-1000, GZ-1000, GQR-1000, GJR-300, GSS-1000, GMS-100, GTW-500, GQC-5, GGG-100, HR-150A, HRD-150, HRS-150, XHR, HB, HVS, HV, HBRV, W-20, HBA-1, LHT, Q-2A, MP-2, XQ-2B, XD-30M, 4XCE, 4XB, JSZ, MOPAO, MPT, P, MP, BG, LBG-32, MPJ-35, Q-Z, Q-100B, SQ, Q-3A, QG-4, LSQ, LDQ, GTQ-5000A, GTQ-5000B, DTQ, ZXQ, 4XC, HST, KASON, KS, KSCUT, HTR, HTPR, HTB, HSTR-45S, HTV, HTMV, HTBRV, METRPRESS, MPJ

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