Altitude Test Chamber

KASONTEST®

Introduction

These chambers are widely used in aerospace, electronics, materials science, and other industries where components must withstand extreme environmental conditions.

Application Fields of Altitude Test Chamber

Our Altitude Test Chambers serve a wide range of industries, providing reliable testing under extreme environmental conditions, including:

1.Aerospace: Evaluates the performance of instruments, control systems, and other components under extreme temperature and pressure conditions.

2.Electronics: Tests the reliability of parts for mobile phones,laptops,chipsets, and other devices in low-pressure and extreme temperature environments.

The Test Contents of Altitude test Chamber

The Large Altitude Test Chamber is a specialized system designed to replicate high-altitude conditions. It can simulate varying pressure and temperature levels, from sea level to tens of thousands of meters above sea level, allowing accurate evaluation of sample performance in low-pressure environments.

Common Testing Standards for Low-Pressure Chambers:

1.NF C20-713-2021: Environmental Testing Part 2-13,Method M-Low Air Pressure.

2.MIL-STD-810: U.S.military standards covering reliability testing of materials and equipment under low-pressure conditions, with multiple methods and scenarios.

3.ASTM D4169: Standards from the American Society for Testing and Materials addressing low-pressure testing in packaging and transportation.

4.IEC 60o68:International Electrotechnical Commission standards for a wide range of environmental tests,including low-pressure and extreme temperature testing.

Control System of the Test Chambers

The control system of the test chamber integrates advanced software and hardware to ensure reliable operation under preset conditions.It provides accurate experimental data while allowing precise control and monitoring of various test parameters.

1.Controller: Equipped with a high-performance controller and an in-house developed control platform, with the option to integrate a Siemens system. Communication interfaces include RS232,RS485,and Ethernet ports.

2.Programmable control: Supports the creation of test programs, including heating, cooling, and constant temperature cycles.Multiple programs can be executed, with the added option for scheduled startup.

3.Language options: Available in English and others.

4.Remote monitoring: Remote access technology enables monitoring and control from both PC and mobile devices, allowing real-time data tracking and enhanced testing convenience.

5.Control system specifications may vary by model. Please refer to the Environmental Test Chamber Manual for detailed instructions and follow all safety procedures before operation.

Main technical specifications

Name	Large Altitude Test Chamber
Color	Customized Color
Material	Q345R
Negative pressure range	0.2-1ATA
Treatment Capacity	Dependable
Main cabinet size	2400mm×1550mm×2020mm
Equipment cabinet size	1200mm*500mm*2300mm
Weight	2000kgs

FOCUS IN MATERIAL TEST

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