

Three comprehensive Test Chamber THV-500

Custom solutions

Three comprehensive Test Chamber mainly for aerospace, aviation, petroleum, chemical, electronics, communications and other scientific research and production units to provide temperature and humidity change environment, at the same time in the electric vibration stress on the Test Chamber, for the user for the machine (or parts), electrical appliances, instruments, materials, temperature, vibration comprehensive stress screening test, in order to assess the adaptability of the test article or to evaluate the behavior of the test article. Compared with the effect of a single factor, it can more truly reflect the adaptability of electrical and electronic products in the process of transportation and actual use to the temperature and humidity and vibration composite environment changes, and expose the defects of products, which is an essential and important test means for the whole process of new product development, prototype test and product qualification identification test.



Lab Companion®

Technical characteristics

Performance:

Type: THV-500

Temperature range: RT+10°C ~ +150°C

Temperature range: -40-150°C

Temperature fluctuation degree: $\pm 0.5^{\circ}\text{C}$

Temperature uniformity: 2°C

Temperature deviation: $\pm 2^{\circ}\text{C}$

Humidity range: 20% to 98% RH

The iation of humidity: $\pm 2.0\% \text{ RH}$

Humidity uniformity: $\pm 3.0\% \text{ RH}$

Humidity deviation: +2~ -3% (> 75% RH), $\pm 5\%$ (75% RH)

Heating rate: $4^{\circ}\text{C} / \text{min}$ (-40-105°C linear, 5 KG aluminum ingot without heating)

Cooling rate: $4^{\circ}\text{C} / \text{min}$ (150~-40°C linear, 5 KG aluminum ingot without heating)

Working volume: 200L

Dimensions (mm)	w	h	d
Use full	800	800	800
Over all	1100	1710	2280

3 Composition of the comprehensive Test Chamber:

Test Chamber box, motion connection system, control system, refrigeration / defrost system, heating / humidification system, air duct system, etc.

3 Functions of the comprehensive Test Chamber:

1. The removable USB smart stick memory allows users to easily enter data, programs, alarms, indexes and other functional options.

Comprehensive test environment of three environmental factors was simulated in the same box.

Flexibility-The Test Chamber can work with the user's existing vibration equipment or assemble new vibration devices.

Multifunction-can be used as a separate temperature / humidity Test Chamber to maximize your return on investment.

High performance, fast temperature variation, can be accelerated stress test.

Accept custom design to meet strict user requirements.

User-friendly control design for convenience with other user equipment.

The refrigeration system is designed to protect the compressor and ensure the refrigeration performance of the Test Chamber. At the same time, refrigeration is low energy consumption, cost saving.

Humidity water filtration system to remove impurities, protect the Test Chamber.

Programming controller, RS-232 / 485 computer interface.

Studio size, temperature range, humidity range, vibration frequency and vibration mode can be made according to user requirements

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Positive side



side

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