

Features

Environmental Test System

- Simultaneous simulation of temperature, humidity, and vibration.
- Compatibility with various applied tests including stress screening and reliability evaluation.
- Rapid temperature change capability, up to 15°C/min.
- Precise control with temperature fluctuation $\leq 0.5^\circ\text{C}$.
- Energy-efficient operation with stepless temperature regulation via electronic expansion valve.

Environmental Test System

The chamber is designed to conduct combined tests by simulating temperature, humidity, and vibration simultaneously, effectively integrating with a vibration shaker. It facilitates various applied tests including high temperature, low temperature, temperature & humidity, high-low temperature, high-low temperature & humidity, environment stress screening, reliability evaluation, and acceptance tests. Key features include rapid temperature change capability, with a maximum mechanical refrigeration rate of up to 15 °C /min, and further enhancement by a liquid nitrogen refrigeration system achieving a cooling rate of 30 °C /min. The electronic expansion valve enables precise control of cooling capacity, offering stepless temperature regulation for energy efficiency. Additionally, the chamber ensures high control precision, with temperature fluctuation $\leq 0.5^\circ\text{C}$ and temperature deviation $\leq \pm 1.5^\circ\text{C}$, ensuring accurate and reliable testing conditions.

