Environmental Simulation Chamber for Temperature and Pressure

This chamber assesses the environmental performance of materials and electrical products. It is used to determine the reliability of instruments and parts in aviation, aerospace, and electronics under combined temperature and pressure conditions.

Overview

Environmental Reliability Testing

This high and low temperature, low-pressure test chamber is engineered to simulate extreme environmental conditions, making it an essential tool for the aviation, aerospace, and electronics industries. It determines the environmental adaptability and reliability of components and equipment by subjecting them to independent or composite environments of varying pressure and temperature. The system utilizes forced ventilation to ensure superior temperature uniformity throughout the working chamber.

Technical Specifications

Vacuum Pump Model	2XZ-15B
Theoretical Pumping Speed	15 L/s
Ventilation Method	Forced blowing and circulation through rear side air channel

Certifications

Certifications	ISO9001:2000, ISO14001:2004

Design Features

Structural Composition

- Front incubator bearing structure
- Rear refrigeration and vacuum units
- Integrated electrical controller
- Front-mounted electrical control panel