



EIE INSTRUMENTS PVT. LTD.
(An ISO 9001:2015 Certified Company)

ENVIRONMENTAL CHAMBER FOR CREEP TENSILE TESTING MACHINE - ASTM D6992



Compliance standards

ASTM D6992, ASTM D5262

Applications

- Creep Test (Stepped Isothermal Method) for Polymer Material
- Creep Rupture test for Polymer, Georibs & Geogrids
- Stress relief test

Salient Features of Environmental Chamber

- Powder coated exterior body
- Stainless steel S.S. - 304 Grade interior chamber
- Chamber equipped with Optical laser distance sensor for elongation measurement
- Tactfully designed to let the connecting rod pass from the top of the chamber, On end of which is connected with the SPECIMEN CLAMPING FIXTURE and the other end of which is connected to the load cell of tensile testing machine.
- Sufficient inner chamber dimensions to accommodate the creep testing fixture (grip) as per ASTM D6992, ASTM D5262 Standards
- Equipped with CFC Free refrigeration system, evaporation coil and condenser to operate in the lower temperature range
- Also equipped with motorized blower for uniform temperature distribution throughout the chamber
- Heating elements are fixed at the back side of the chamber
- Equipped with Thermal leakage proof insulation on all side of the chamber
- Easy access for mounting & dismounting of samples, Changing of test fixture and Positioning of environmental chamber

- Enclosed Environmental chamber in surrounding of the test fixture (test grip) thus eliminating the complex adjustment of load cell, mounting & dismounting of test samples
- Easy opening and closing of the environmental chamber doors for mounting the test samples
- Also, Supplied complete with Instruction manual, Test report and calibration certificate

Technical Specification

•Temperature Range	: 0 - 100 °C
•Temperature Accuracy	: $\pm 2^{\circ}\text{C}$
•Temperature Resolution	: 0.1°C
•Temperature sensor	: PT- 100 Sensor
•Temperature controller	: Touch screen HMI & PLC Controller
•Temperature Ramp Rate	: 1/2/3/4 °C
•Load Conditioning (RH dwell time)	: 10000 Seconds (User Defined)
•Time Range	: 0-99999 Seconds (User defined)
•Paint	: Powder coating in attractive shades
•Power Supply	: 230 Volts, 50 Hz, single Phase, AC Supply

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