



Physical Test Solutions

Innovative Solutions in Material Test Equipment

Environmental Chambers and Furnaces for Universal Testing Machines

The **Physical Test Solutions (PTS)** series of environmental chambers and furnaces are specially used for universal testing machines. The chambers can be adapted to operate on the corresponding load frame and can be equipped with an optional cart to move the chamber to and from the load frame.

The chamber consists of chamber body, controller, high & low temperature grips and moving chart. The temperature can be controlled automatically by a high accuracy PID Controller, and has the capability to communicate with a computer.

PTS environmental chambers and furnaces are manufactured in an ISO 9001 certified facility, and comply with ASTM, ISO, EN and all relevant international standards.

Main Features

- ⊙ Low temperature cooling achieved by liquid Nitrogen.
High temperature section is heated by resistance wire.
- ⊙ The temperature control adopts the advanced fuzzy control mode, and the temperature is maintained stable with no overshoot and minor fluctuation.
- ⊙ Equipped with pull rods.



Environmental Chamber Specifications

| Model | Specifications | |
|--------|---------------------|------------------|
| EC-450 | Temp. Range | -70-300 Deg C |
| | Temp. Fluctuation | ±2 Deg C |
| | Temp. Grads | 3 Deg C |
| | Effective space | 300×270×450 |
| | External dimensions | 460 ×430×610 |
| EC-600 | Temp. Range | -70-300 Deg C |
| | Temp. Fluctuation | ±2 Deg C |
| | Temp. Grads | 3 Deg C |
| | Effective space | 400×400×600 |
| | External dimensions | 560×560×760 |
| EC-700 | Temp. Range | Room temp.-200 C |
| | Temp. Fluctuation | ±2 Deg C |
| | Temp. Grads | 3 Deg C |
| | Effective space | 450×450×700 |
| | External dimensions | 610 ×610×860 |



High Temperature Split Furnace for Universal Testing Machine

The furnace is specially used for universal testing machine, and according to the needed temperature to equip with corresponding Load frames for kinds of metallic materials.

The unit consists of furnace, PID temperature controller, high temperature grips, pull rod and bracket. The temperature can be controlled automatically by PID Controller with high accuracy. Also it can make data communications with the computer. It is the ideal material test equipment used for university, research institution and enterprises.



Temperature Range: Ambient temperature from ambient to 700 °C

Standard specimen nut size:M18 (others available on request)

Pull rods diameter: 40mm

Soaking zone: 100mm-150mm

Fluctuation of temperature: $\pm 2^{\circ}\text{C}$

Inner size of the furnace: $\phi 85\text{mm} \times 280\text{mm}$

Outer size of the chamber: $\phi 300\text{mm} \times 400\text{mm}$

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