UT 6050HS hot- set/creep oven

Shown on picture PTL-UT 6050HS, including optional sliding door

General

The **UT 6050HS hot- set oven** is a high precision hot-set oven, designed for measuring the hot-set elongation at temperatures of up to 250°C (482°F), according IEC 60811 Part 507 and ICEA T-28-562 which define the procedures for the hot-set / hot-creep tests, which typically applies to crosslinkable polymeric compounds for insulating and sheathing materials.

Features

- Equipped with a large, 380 x 380 mm, glass window for easy monitoring of the samples
- Double glass window has been exactly parallel mounted and has been SnO2 coated
- Equipped with a clamping holder for 5 samples
- Supplied with 5 containers, able to hold weights up to 800 gram (weights included)
- Opto-electronic laser measuring unit, incl. digital reading for precise measuring of elongation
- Can be connected to a laptop or PC for data gathering
- Large display, for easy reading
- Intuitive interface for easy setting
- Rounded corners for easy cleaning
- Excellent thermal insulation to create a low outer surface temperature and to increase safety
- High volume test chamber
- Significant reduction of heat emission due to unique door design
- Routine check upon start-up, for optimum performance levels.
- Upper temperature safety device
- Adjustable speed regulator for forced air circulation
- Equipped with a Kelvitron T temperature controller, incl. digital display of the actual and the set temperatures
- Built-in 5-pins DIN connector, 8 V DC, 200 mA
- Reed bushing, having a diameter of 53 *mm (2.1”),* is mounted on the right side of the oven. *Note: This bushing is not available for this oven, if the optional sliding door is mounted*.

Options

- One extra specially designed sliding door with 6 sample holders in the right side of the oven for inserting and cutting samples, while minimizing the temperature loss .
- Air exchange device for regulating the air exchange between 8 – 20 liter per hour.
- Data cable which can be connected between the opto-electronic measuring system and a computer system for easy importing of the measured data.
- A notebook, incl. Microsoft Works for easy transferring the data into an Excel spreadsheet and graphics.
- Mini data processor, incl. cable for printing purposes

Technical Specification

Convection technology	Gravity convection. Forced air circulation also possible
Maximum Temperature	250°C *(482°F)*
Spatial Temperature Deviation at 150°C	±1.0°C , acc. To DIN 12880 (2007)
Spatial Temperature Deviation at 150°C	±2.0°C, acc. To DIN 12880 (2007)
Temperature Deviation over time at 150°C	± 0.3°C, acc. To DIN 12880 (2007)
Air Circulation Ventilator	Including speed setting
Interior housing	Stainless Steel 304
Interior Lighting	Included. Switch is mounted on the front side
Dimensions (W x H x D)	Exterior : 530 x 720 x 565 mm *(21 x 28 x 22 “)* Test Chamber : 328 x 389 x 480 mm *(13 x 15 x 19 “)* Glass window : 280 x 216 mm *(11 x 9 “)*
Test Chamber Volume	105 liter *(27.7 gallon)*
Rated voltage / frequency	230 V and 50 or 60 Hz
Power	3.1 kW
Relay	Solid state
Weight	80 kg *(176 lbs)*

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