HDT/Vicat Tester HDT/V-3216



The tester is used to determine the Heat Deflection Temperature or the Vicat Softening Point. All the specimens are charged with a constant load and immersed in a bath, where temperature is increased at a standard velocity. The attained heat resistance rate of plastic material is a widely required parameter for product characterization, for quality control, as well as for evaluating their conformity to the previewed applications. The optional software system enables to produce graphs showing the deformation of each specimen and temperature increase versus time.

Characters:



1. Performance of specimen frame lifting, limit space position, loading and off load can be finished during the lifting procedure.
2. Thanks to new material application and unique structure, the expansion coefficient of specimen frame has been controlled at the minimum value.
3. Dispersion of testing results for standard specimen is smaller than 0.5℃, even under the smallest load.
4. Automatic smoke exhaust system has been designed to guarantee the operator's heath and not contaminate the environment.



5. Application of digital micrometer with communication interface brings the top class performance in mechanic & electronic controlling ability and software technology.
6. Temperature protective circuit, being independent from the controlling system, is designed to protect the tester when

temperature of medium exceeds its using range.

Controlled by PC or touch screen, equipped with JINJIAN software to control test temperature and deformation, describe & record test curves, output testing result, save historical data as well as print out testing results, etc.

Standard:

ISO 2507 《Thermoplastics pipes and fittings -- Vicat softening temperature》

ISO 75 《Heat Deflection Temperature (HDT)》

ISO 306《Vicat Softening Temperature》

ASTM D 1525 《Standard Test Method for Vicat Softening Temperature of Plastics》

ASTM D 648《Standard Test Method for Deflection Temperature of Plastics Under Flexural Load in the Edgewise Position》

Technical Parameters:

Mode	HDT/V-3216
Control mode	PC
Temperature control range	Room temp.～300℃
Heating rate	120℃/h or 50℃/h：
Max. temperature error	±0.5℃ (50℃/h) ±1.0℃ (120℃/h)
Numbers of temperature measuring point	6
Numbers of test station	6
Expansion coefficient of specimen frame	<0.005mm/100℃
Deformation measuring device	Digital microgauge
Deformation range	-1.00mm～9.00mm
Specimen support span	64mm, 100mm
Measurement error of max. deformation	0.005mm
Heating medium	Methyl silicone oil
Cooling method	Natural cooling (Medium temperature is higher than 150℃);

	Water cooling or nature cooling(Medium temperature is lower than 150℃)
Power supply	(220-15% ～220+10%)VAC 50Hz 7.5kW±10%, Single phase and three wires
Dimensions	L×W×H=(950×560×980)mm

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Technical Parameters:

1）Temperature control range: Room temperature to 300℃;

2）Heating rate:120℃/h, 50℃/h;

3）Max. temperature error: ±0.5℃;

4）Temperature measurement point:3;

5）Number of test stations:3;

6）Deformation measurement device: Digital dial gauge;

7）Deformation measurement range: 0～1.1mm;

8）Specimen support span: 64mm,100mm;

9）Max. deformation error: 0.01mm;

10）Heating medium: Methyl silicone oil;

11）Cooling method :Natural cooling (Medium temperature is higher than 150℃);

Water cooling or nature cooling(Medium temperature is lower than 150℃)

12）With temperature protection system, then test temperature up to upper limit, system shall stop heating automatically.

Configuration:

1）Main frame (One set)

2）Test station (Three)

3）HDT Test head (Three)

4）Vicat Test head (Three)

5）Electric control cabinet (included in mainframe) (One set)

6）Digital dial gauge (Three)

7）Power cable (One)