

function

The **SCITEQ HDT/VICAT** is designed to determine the temperature of deflection of thermoplastic samples in accordance with both national and international standards.

highlights

simple set-up

robust construction

PC control

high accuracy

quality product

features

- Simple set-up, operation and maintenance
- Six testing stations
- Can be configured for either HDT or VICAT test methods
- Performs tests to the following international standards:
VICAT: EN ISO 306, ASTM D1525-98
1/10 VICAT: BS 2782 Part 1: Method 120C 1990
HDT: EN ISO 75-1 and 75-2, ASTM D648-98C
- Full PC integration and control using NEXYGEN data analysis software for HDT/VICAT
- Six Individual temperature and deflection sensors
- Integral Interface allows test programming and indicates results on a large backlit LCD
- Suitable for industrial and laboratory environments
- Nitrogen safety blanket fitted as standard.



We wish to give our partners the tools to produce to the highest standard, while helping them to produce as cost-effectively as possible with Q.C. tools throughout the factory.

construction

The unit consists of a temperature controlled oil bath, with up to six testing stations, each of which may be configured for either HDT or VICAT test methods. The weight loading mechanism and test fixture mountings are designed as a single unit, which is lowered and raised in to the oil bath by electric motor under software control. The design of this assembly includes extensive safety features. The bath is closed off in the lower and upper positions, the oil surface only being exposed when the assembly is in motion. A nitrogen safety blanket is also fitted as standard. Individual deflection sensors for each station are mounted above the weight system with accuracy of measurement better than 0.01 mm (0.0004 in). In addition, six individual temperature sensors are fitted in the tank adjacent to the stations. This eliminates moving wires on the testing assembly and allows the sensors to be used to control the temperature of the bath. An integral control console featuring large backlit display and membrane key pad is provided as an option to PC control enabling independent test programming, and display of each station status during test. The system is robust enough to be used in an industrial environment, as well as a laboratory. The unit functions as an independent unit, or can be PC controlled using NEXYGEN™ software for HDT and VICAT tests.

associated | equipment ▲ | essential equipment

software

test weights

- temperature measurement:** 6 K-type thermocouples
- temperature range:** 20° to 300°C
- station lift:** fully automatic
- weight lift:** fully automatic for all stations
- international standards:** Vicat: EN ISO 306, ASTM D1525-98
 1/10 Vicat: BS 2782 Part 1: Method 120C 1990
 HDT: EN ISO 75-1 and 75-2, ASTM D648-98C
 minimum test weight 250 g.
- safety standards:** BS EN 61010-0 1993 (Safety requirements for electrical equipment for measurement control and laboratory use), 89/392/EEC safety directives
EMC: BS EN 50081: 1992, BS EN 50082-1 1997
- stations:** supplied complete with interface to bath and tips for HDT and Vicat tests (maximum 6 per unit)
- temperature ramp rate:** user selectable via software; 50°C/hour and 120°C/hour
- deflection/penetration:** digital indicators - linearity better than 0.1% FSD
- system resolution:** 32 bit
- weights:** optional - user selectable
- heating:** immersed heating element. Fully automatic
- cooling:** fully automatic
- volume:** 15 litres tank capacity with level indicator
- medium:** silicone oil (not supplied as standard)
- net weight :** 70 kg (154 lb) including 2.16 kg (4.8 lb) test weight



SCITEQ A/S
 Industrivej 13-15
 DK-8450 Hammel
 Denmark
 Tel: +45 86 96 19 33
 Fax: +45 86 96 24 75
 www.sciteq.com
 sales(at)sciteq.com

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test weights