

HDT/VICAT System HDV3



Description

The HDV3 HDT/VICAT System is designed for testing ease using the sophisticated technology of Windows™-based software. Utilizing the Windows operating system, the HDV3 control and analysis software offers easy setup, operation, analysis and calibration. The Windows-based software offers testing for two to six stations on multiple HDV3 systems.

Setup

The simple setup page allows the operator to run either industry defined or custom defined test methods. The ASTM D648 and D1525, as well as ISO 75 and 306 test methods are programmed into the software. When using one or more of these tests, the operator only needs to select the test method and all other specifications appear automatically. The software is capable of performing any combination of HDT or VICAT tests, provided that temperature rise rates for the bath are identical for the different tests. The software also calculates exact specimen loading based on specimen dimensions. Simple and precise, the software provides fool-proof test setup.

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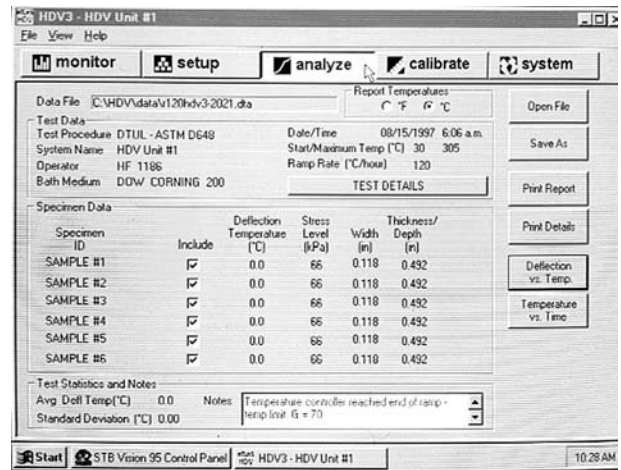
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Analyze

While in analyze mode, the user can view a combination of stations for both graphical and statistical analysis. Four different report detail selections are available: test report, deflection vs. temperature, temperature vs. time (useful for verifying rise rates) and a long report logging every data point. For hard copy files, the user is able to print any of these four reports. The full test report provides station-by-station specimen information including specimen loading, failure temperatures, rise rates and statistical data.



The Analyze Menu

Test

Once a test has been set up and initiated, it will proceed automatically through the start delay, ramping to the test start temperature, initialization of the digital gages and display of a bar graph of test progress. In order to identify and eliminate test anomalies, the HDV3 system possesses powerful graphing

capabilities. This feature removes the difficulty of discriminating small differences in material performance that would otherwise get lost in a single numerical end point. The graphing ability provides a quick and precise visual indication of performance to each specimen.

Calibrate

The HDV3 calibration function offers the ability to correct for test frame distortion at high bath temperatures. This simple frame calibration procedure is optional, and suggested if the material failure point is below 190°C. The system will automatically incorporate calibration file values in test result calculations to provide the most accurate test data for high temperature tests.



The Calibrate Menu

All dimensions are in inches (millimeters).

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Refer to www.dynisco.com for access to Operator Manual and other support documentation.
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