

HST-DSC-600 Differential Scanning Calorimeter



Picture just for reference

Application:

Differential Scanning Calorimetry (Heat Flow DSC), as a classical thermal analysis method of thermal effects under controllable program temperature, is widely used in the research and development, process optimization, quality control and failure analysis of various materials and chemical fields. Various occasions have already been widely used. Using the DSC method, we can study the phase transition of inorganic materials, the melting and crystallization process of polymer materials, the polymorphism of drugs, the solid/liquid phase ratio of foods such as oils and fats, etc.

Instrument purpose:

Measure physical and chemical changes related to heat, such as glass transition temperature, melting point, melting temperature, crystallization and crystallization heat, phase transition reaction heat, product thermal stability, curing/crosslinking, oxidation induction period, etc.

Standards:

GB/T 19466.2-2004/ISO 11357-2:1999 Part 2: Determination of glass transition temperature;

GB/T 19466.3-2004/ISO 11357-3:1999 Part 3: Determination of melting and crystallization temperature and enthalpy.

GB/T 19466.4-2016/ISO 11357-4:1999 Part 4: Determination of Specific Heat Capacity;

Technical Parameters:

DSC range	0~±500mW
Temperature range	RT~600℃
Temperature resolution	0.01℃
Heating rate	0.1~80℃/min
Temperature repeatability	±0.1℃
DSC noise	0.01mW
DSC resolution	0.01mW
DSC accuracy	0.01mW
DSC sensitivity	0.1mW
Temperature control mode	Temperature rise, constant temperature (automatic control of the whole program)
Curve scan	temperature scanning
Atmosphere control	automatic instrument switching
Gas flow	0-200mL/min
Gas pressure	0.2MPa
Display mode	24bit color 7-inch LCD touch screen display
Data interface	standard USB interface
Parameter standard	Equipped with standard substances, with a one-key calibration function, users can correct temperature and enthalpy by themselves
Working power supply	AC 220V 50Hz or customized
Power	600W

Main features:

1. The new fully enclosed metal furnace design structure greatly improves the resolution and resolution and better baseline stability. the
2. Adopt professional imported alloy sensor, which is more anti-corrosion, anti-oxidation, and the sensor has high sensitivity.
3. Perfect two-way atmosphere control system, precise control of purge gas flow, automatic switching of software settings, and data directly recorded in the database.
4. Using the Cortex-M3 core ARM controller, the operation processing speed is faster and the temperature control is more precise.
5. Using USB two-way communication, the operation is more convenient, and it supports self-recovery connection function.
6. Adopt 7-inch 24bit color full-color LCD touch screen to display the status and data of the instrument in real time.
7. The instrument is equipped with standard materials, and the user can calibrate each temperature section by himself to reduce the error of the instrument.

8. Intelligent software design, automatic drawing of the whole process of the instrument, software can realize various data processing, such as calculation of heat enthalpy, glass transition temperature, oxidation induction period, melting point and crystallization of substances, etc.

Instrument configuration:

Item	Name	Quantity	Remark
1	DSC-600 main engine	1 PC	
2	Power cord	1 root	
3	Experimental software flash drive	1 sheet	
4	Aluminium crucible	500 pieces	
5	tweezers	1 piece	
6	Sample spoon	1	
7	Data line	1 root	
8	Fuse 5A	4	
9	Certificate of qualification	1	
10	Warranty card	1	
11	User's manual	1	

Note: The configuration required by your company: Nitrogen cylinder, oxygen cylinder and matching pressure gauge

19 YEARS

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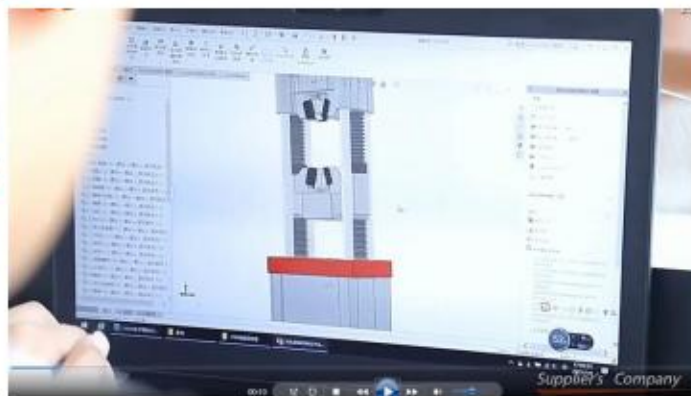
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Machines passed the European CE authentication,American FDA certificate and and ISO 9001.

Products sold to USA, Canada, Australia, Europe, Africa etc,more than 130 countries and supply OEM service for many customers than 130 countries

FACTORY AND TEAM

We has a moden enter prise technology center, sales team and scientific and technological research and development team.For your standard test needs, our sales team will listen to your test objectives, analyze your situation and translate your desires to affordable test solutions.



Research and development department



