



DIFFERENTIAL SCANNING CALORIMETER

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DSC-T115S



Product Overview

It can be test for curing glass transition temperature (tg) cooling crystallization melting temperature and enthalpy variable, cross-linking degree, product stability oxidation induction time (OIT) And other indicator

Product Feature

- Industrial-level widescreen touch structure is rich in information, including setting temperature, sample temperature, differential thermal signal, various switch states, etc.
- USB communication interface, strong universality, reliable communication, and supports self-restoring connection function.
- The furnace structure is compact, and the rate of rising and cooling is adjustable.
- The installation process is improved, and the mechanical fixation method is adopted to completely avoid contamination of the internal colloid of the furnace to the differential heat signal.
- The furnace is heated by an electric heating wire, and the furnace is cooled by circulating cooling water (refrigerated by compressor), providing a compact structure and small size.
- The double temperature probe ensures high repeatability of sample temperature measurement and adopts special temperature-control technology to control the furnace wall temperature to set the temperature of the sample.
- The gas flow meter automatically switches between two gas channels, with fast switching speed and short stabilization time.

- A standard sample is provided for easy adjustment of temperature coefficient and enthalpy value coefficient.
- Software supports each resolution screen, automatically adjusting the computer screen size curve display mode. Supports laptop and desktop computers, as well as Windows 7, Windows 10, Windows 11, and other operating systems.
- User-defined device operation mode according to actual needs enables full automation of measurement steps. The software provides dozens of instructions, and users can flexibly combine and save each instruction according to their own measurement steps. Complex operations are reduced to one-click operations.

Technical parameter

Model	DSC-T115S
Temperature range	10°C–500°C
Temperature resolution	0.01°C
Heating rate	0.1–80°C/min
Cooling rate	0.1–20°C/min
Temperature control mode	Heating, cooling, constant temperature, or any combination of three modes; cycle use, temperature uninterrupted
DSC range	0–±500 mW
DSC resolution	0.01 mW
DSC sensitivity	0.1 mW
Working power	AC 220V, 50Hz, 300W or other
Atmosphere control gas	Two-channel gas control by automatic control (e.g., nitrogen and oxygen)
Gas flow:	0–200 mL/min
Gas pressure	0.2 MPa
Gas flow accuracy	0.2 mL/min
Crucible	Aluminum crucible, Φ6.5 × 3 mm (Diameter × Height)
Calibration standard	With standard materials (indium, tin, zinc), users can adjust the temperature coefficient and enthalpy value coefficient
Data interface	Standard USB interface
Display mode	7-inch touch screen
Output mode	Computer and printer

Configuration List

DSC machine	1 pc
Aluminum crucible	300 pcs
Power cords	1 pc
USB cable	1 pc
USB flash disk (contains software and operation video)	1 pc
Software key	1 pc
Oxygen tube	5 m
Nitrogen tube	5 m
Operation manual	1 pc
Standard sample (contains indium, tin, zinc)	1 set
Tweezer	1 pc
Sample spoon	1 pc
Gas connector	2 pcs
Fuse	4 pcs External
circulation thermostat	1 pc
Water tube	1 pc



Furnace bracket (Sensor tray)



Aluminum crucibles ($\Phi 6.5 \times 3\text{mm}$)



Optional crucible: aluminum crucible with lid crucible



Optional crucible: Pressure

Need use DSC tablet press

Software screenshots:





