

KASON DSC-500 Differential scanning calorimeter**Application:**

DSC is a differential scanning calorimeter with the highest precision in our company. The sensor adopts imported sensor with high sensitivity. Signal acquisition circuit shielding protection, which has strong anti-interference and high baseline stability.

The differential scanning calorimeter is touch screen type and can perform glass transition temperature test, phase transition test, melt and enthalpy test, product stability, curing, oxidation induction period test, specific heat test. It has a wide range of applications.

Feature:

Miniaturized furnace, fast temperature rise and fall;

High-resolution 24-bit A/D data acquisition, high-precision signals with low drift;

Differential thermal signal measurement range: -200.00 to 200.00, accuracy: 0.02mW;

Intelligent, adaptive single-chip microprocessor temperature control system;

Measurement and temperature control using a Pt100 platinum resistance thermometer, achieving a constant temperature accuracy of 0.01°C;

Gas flow measurement using a mass flow meter, achieving a flow accuracy of 0.1ml/min;

Fast gas switching speed and short stabilization time;

Color TFT display, The display is rich in content, including differential thermal signals, setting stability, oxygen flow rate, nitrogen flow rate, and other information displayed simultaneously.

The management software is adaptively compatible with various operating systems, including Windows XP, Windows 7, Windows 8, and Windows 10, and supports both 32-bit

and 64-bit versions. It also offers Chinese and English language switching.

The intelligent management software automatically performs oxidation induction tests and temperature correction tests, and automatically calculates test results.

The powerful management software can calculate parameters such as oxidation induction period, epitaxial onset temperature, glass transition temperature, enthalpy change, and enthalpy change ratio.

Technical Parameters:

Model	KASON DSC-500A	KASON DSC-500B
Test standard	Oxidative induction period	Measure oxidation induction period, melting point, enthalpy change, glass transition temperature, phase change temperature and kinetic parameters
DSC range	±10、±20、±40、±100、±160、±200mW	
Temperature range	room temperature ~ 500℃	
Temperature resolution	0.01℃	
Program temperature control rate	1~90℃/min	
Heating rate	1~30℃/min	
DSC accuracy	0.02mW	
Gas	Oxygen, nitrogen; Φ4 trachea	
Gas flow	200ml/min	
Gas pressure	0.2MPa	
Gas flow accuracy	0.2ml/min	
Temperature control method	Heating and constant temperature (fully programmed and automatically controlled)	
Curve scanning	Heating scan area	3200×1000×2500mm
Power supply	AC220V50Hz	Approx.800 kg

FOCUS IN MATERIAL TEST

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