



DSC - 3100 Differential Scanning Calorimeter



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Analytical Technologies Limited

An ISO 9001 Certified Company

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Instrument introduction:

Differential scanning calorimeter (heat flow DSC) is a classic thermal analysis method of thermal effects under controllable program temperature. It is used in the research and development, process optimization, quality control and failure analysis of various materials and chemistry fields. It has been widely used in various occasions. Using the DSC method, we can study the phase transition of inorganic materials, the melting of polymer materials, the crystallization process, the polymorphism of drugs, the solid/liquid ratio of foods such as oils and fats.

Main features:

1. The new fully enclosed metal furnace body design structure greatly improves the resolution and resolution and better baseline stability. To

2. Using professional alloy sensor, it is more resistant to corrosion and 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 Cortex-M3 core ARM controller, the calculation processing speed is faster, and the temperature control is more accurate.

5. Using USB two-way communication, the operation is more convenient and supports self-recovery connection function.

6. Using 7-inch 24bit color full-color LCD touch screen, real-time display of the status and data of the instrument.

7. The instrument is equipped with standard materials, and users can calibrate each temperature section by themselves to reduce the error of the instrument.

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

Instrument use:

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, solidification/crosslinking, oxidation induction period, etc. To

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>> Technical parameters:

DSC range	0~±500mW
Temperature range	-50C ~700°C
	(Constant temperature refrigeration)
Heating /Cooling Rates	0.01 °C300 °C per minute
Temperature resolution	0.01°C
Temperature repeatability	±0.1°C
DSC noise	0.001mW
DSC resolution	0.001mW
DSC accuracy	0.001mW
DSC sensitivity	0.001mW
Temperature control method	heating, constant temperature
	(full program automatic control)
Curve scan	heating scan
Atmosphere control	automatic instrument switching
Gas flow rate	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 materials, with one-k
	calibration function, users can calibra
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	temperature and enthalpy by
	themselves
Power supply	AC 220V 50Hz or customized
Power	600W
Crucibles	Single digit quantity each of Al ₂ O ₃ ,
	Ag, steel, glass, Cu, Pt & ceramic
	crucible of standard size.
	Minimum 500 number of
	Aluminium/Aluminium Al ₂ O ₃
	crucibles and Sealing press device
	for aluminium crucible along with
	die.
DSC Modulated	heat flow, reversing heat flow, non
Software	reversing heat flow of the sample
And PC	and heat capacity.
	PC with suitable operating system
	and software for temperature
	modulate system, installed in it for
	measurement and analysis.



HPLC Servicing, Validation, Trainings and Preventive Maintenance :

HPLC Servicing :HPLC Servicing : We have team of service engineers who can attend to any make of HPLC promptly @the most affordable cost. Trainings :We also take up preventive Maintenace to reduce downtime of HPLC's Trainings. AMC's/CMC :AMC's/CMC :We offer user training both in-House and at customer sites on HPLC principles, operations, troubleshooting. Validations :Validations :We have protocols for carrying out periodic Validations as per GLP/GMP/USFDA norms.

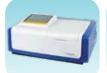
:Instruments :We offer instruments/Renting Services Modules like pumps, detector etc. on Rent. Instruments



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Chemistry Analyzer





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Spectrophotometer

URINOVA 2800

Urine Analyzer



Liquid Partical Counter



Total Organic Carbon 3800





Fully Automated CLIA



PCR/Gradient PCR/ RTPCR

TOC Analyzer

Laser Particle Size Analyzer

Ion Chromatograph

Water purification system



Semi Auto Bio





Reader/Washer



Regulatory compliances



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Analytical Foundation is a nonprofit organization (NGO) found for the purpose of:



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2. Improving quality of life by offering YOGA Training courses, Work shops/Seminars etc.

3. ANALYTICAL FOUNDATION aims to DETOXIFY human minds, souls and body by means of yoga, Meditation, Ayurveda, Health Care, Awards, Media, Events, Camps etc.



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