LABTRON

Differential Scanning Calorimeter
LDSC-A1 Series

www.labtron.com | info@labtron.com

Differential Scanning Calorimeter LDSC-A10

Differential Scanning Calorimeter LDSC-A10 is an analyzer which allows the measurement of different characteristic properties of various samples from RT to 800°C. It meets ASTM, ISO standards. High resolution, stable base line, air flow meter, bilateral control etc. are some of the features which ensures accurate and reliable results. It finds applications in fields like polymer development, quality control of different materials, performance testing and many other industries.

Differential Scanning Calorimeter LDSC-A11

Differential Scanning Calorimeter LDSC-A11 is an analyzer which allows the measurement of different characteristic properties of various samples from RT to 600°C. It meets ASTM, ISO standards. High resolution, stable base line, air flow meter, bilateral control etc. are some of the features which ensures accurate and reliable results. It finds applications in fields like polymer development, quality control of different materials, performance testing and many other industries.

Differential Scanning Calorimeter LDSC-A12

Differential Scanning Calorimeter LDSC-A12 is an analyzer which allows the measurement of different characteristic properties of various samples from-100 to 800°C. It meets ASTM, ISO standards. High resolution, stable base line, air flow meter, bilateral control etc. are some of the features which ensures accurate and reliable results. It finds applications in fields like polymer development, quality control of different materials, performance testing and many other industries.

Features

- Renewed design of oven structure
- High stability and resolution of base line
- Accurate control of air flow rate
- Test data storage function
- Both main frame and software control option

- LCD touch screen display
- Meets ISO and ASTM standards

Application

It is used to study thermal transitions, heat capacity, glass transition temperature, crystallinity, melting temperature etc. of various materials like polymers, plastics, elastomer, food stuffs, biomolecules, non-corrosive samples, electronic components etc.

Specifications

Model	LDSC-A10	LDSC-A11	LDSC-A12
Temperature range	RT to 600°C (Air cooled)	RT to 800°C (Air cooled)	-100°C to 800°C (Liquid nitrogen refrigeration)
Temperature resolution	0.1°C		
Temperature fluctuations	± 0.1°C		
Temperature repeatability	± 0.1°C		
Dynamic heat flow range (DSC range)	0 to ± 500 mW		
Heating rate	1 to 80°C / min		
Cooling rate	1 to 20°C / min	1 to 20°C / min (OPTIONAL)	1 to 20°C / min (OPTIONAL) (For instant cool only, cannot be Isothermal below RT, and if heating up, the rate can be controlled)
DSC noise	0.01 µW		
DSC resolution	0.01 µW		
DSC accuracy	0.1 µW		
DSC sensitivity	0.1 µW		

Control Mode	Rising temperature, constant temperature (full automatic)
Curve scanning	Rising scan, cooling scan
Gas flow control	Embedded digital flow meter & Software control, automatic changing
Parameter standard	With standard material, with calibration function, the user may correct temperature and heat enthalpy
Display	24 bit 7 inches LCD touch screen display
Data interface	Standard USB connector
Power Consumption	Less than 2000 W
Packaging Dimension and Gross weight (2 case)	580×490×520 mm / 29 kg 530×270×280 mm / 15 kg

Standard Accessories

Name of Accessories	Quantity
Host instrument	1
CD	1
Data Line	1
Power Line	1
Aluminium crucibles	100
Ceramic crucibles	100
pure tin grains	1bag
Fuse 4A	5