LABTRON

DIFFERENTIAL SCANNING CALORIMETER LDSC-A12

www.labtron.com | info@labtron.com

Differential Scanning Calorimeter LDSC-A12

Differential Scanning Calorimeter LDSC-A12 is a compact and tabletop type fully automatic controlled unit. Features-150 to 550°C of temperature range with 0.1 to 80°C/min of heating rate and 1 to 20°C/min of cooling rate. Designed with metal furnace body and 7-inch touch screen display, has liquid nitrogen refrigeration cooling and 3 sets of thermocouples for efficient operation. Adopted with indirect conduction method for heating and automatic switching of 2-channel atmosphere flow, comes with software control and USB interface for convenient operation and easy data analysis.

Features

- A compact and tabletop type fully automatic controlled unit
- -150 to 550°C of temperature range with 0.001°C resolution
- 0.1 to 80°C/min of heating rate and 1 to 20°C/min of cooling rate
- Metal furnace body with 7-inch touch screen display
- Liquid nitrogen refrigeration cooling and 3 sets of thermocouples
- Indirect conduction method for heating, high stability and uniformity
- Automatic switching of 2-channel atmosphere flow, short stabilization time
- Software control and USB interface, easy and convenient data analysis
- Ideal to determine the inner heat transition relating to temperature and heat flow

Application

Differential Scanning Calorimeter is used for the identification of various physical properties and thermal transitions of polymeric materials across polymer development, performance testing & quality control etc.

Specifications

Model	LDSC-A12
Temperature range	-150°C to 550°C
Temperature resolution	0.001°C

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Temperature fluctuations	± 0.001°C
Temperature repeatability	± 0.1°C
Constant temperature range	Program setting ≤ 24 hr
Dynamic heat flow range (DSC range)	0 to ± 600 mW
Heating rate	0.1 to 80°C / min
Cooling rate	1 to 20°C / min (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	0.01 µW
Control Mode	Rising temperature, constant temperature (full-automatic)
Curve scanning	Rising scan, cooling scan
Gas flow control	Embedded digital flow meter and Software control, automatic changing
Atmosphere control gas	Nitrogen, Oxygen (auto-switch)
Gas flow-rate	0 to 300 ml/min
Gas pressure	0.2 MPa
Cooling device	Liquid nitrogen refrigeration
Thermocouples	3 sets
Parameter standard	With standard material, with calibration function, the user may correct temperature and heat enthalpy
Display	7 inches LCD touch screen display
Data interface	Standard USB connector
Power supply	AC 220 V/50 Hz
Dimension (W×D×H)	680×620×550 mm
Weight	38 kg

Standard Accessories

Accessories no.	Accessories Name
1	Aluminum crucibles × 100 pcs
2	Ceramic crucibles × 100 pcs
3	Pure tin grains × 1 bag