

Differential Scanning Calorimeter

DSC7020

HITACHI
Inspire the Next

DSC7020

The Next Generation of DSC Technology

Improved Overall Performance

- New technology for measurement optimization
- Designed for the widest application range

The New Cooling Systems

- The integrated LN₂ gas control unit guarantees cooling efficiency
- The electrical cooling unit helps to reduce following costs

Automatic Gas Control Unit

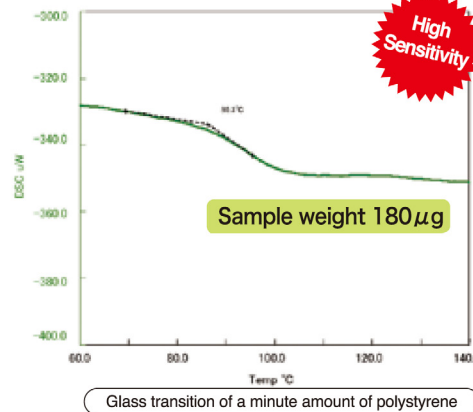
- Mass flow controllers for precise flow control

System Expandability

- The optional Auto Sampler, the different Cooling Systems, Sample Observation Unit and UV Irradiation Unit allow configuration for all application needs



Differential Scanning Calorimeter



Unsurpassed Baseline Performance

- New furnace design and heater control have drastically improved baseline and sensitivity performance. Low noise level and baseline stability enable measurement and analysis of weak transitions and low mass samples.
- The wide measurement range and the usage of the pressure containers make the instrument suitable for the widest application range including safety evaluations.

The Full Line of Options

- Hitachi High-Tech Science is known for its precision. The optional Auto Sampler guarantees easy operation and high sample throughput.
- Software controlled mass flow controllers make sure the atmosphere and the flow rates are the desired ones.
- The flexibility of cooling units meets all applications from -170°C to 725°C.

Auto LN₂ Gas Cooling Unit

Controlled cold nitrogen gas and the improved furnace design are essential for highest cooling efficiency and baseline stability in the wide temperature range from -150°C to 725°C with one cooling system.



Electrical Cooling Unit

Easy to handle and no following costs at high performance are the key features of this unique cooling system in the temperature range from -70°C to 420°C.



Model name	DSC7020
Heat flow measurement method	Heat flux
Temperature range	-170 to 725°C
Measurement range	±350mW
RMS noise / sensitivity	0.1μW / 0.2μW
Scanning rates	0.01 to 100°C/min
Atmosphere	Air, Inert gas flow
Sample pans*	Open pans (aluminum, platinum, alumina) Low-Pressure sealed Pans (aluminum) High-Pressure sealed Pans (aluminum, silver, stainless steel, stainless steel Gold-plated)
Gas purge control*	Flow Meter Gas Control Unit Mass Flow Control Unit
Auto sampler*	50 samples; mechanical arm transport
Cooling unit*	Cooling Can Auto LN ₂ Gas Cooling Electrical Cooling Unit Forced Air Cooling Unit
Dimensions	420(W) × 620(D) × 320(H)mm. With auto-sampler attached: 420(W) × 620(D) × 620(H) mm

*Optional

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