

DSC 7020

Differential Scanning Calorimeter



The Next Generation of DSC Technology

Improved Overall Performance

- New Technology for measurement optimization
- Designed for a wider range of applications

Automatic Gas Control Unit*

- Use of Mass Flow controllers for precise flow control

The New Cooling Systems

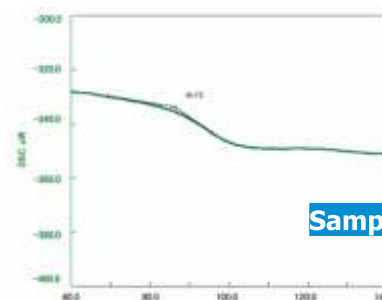
- The integrated LN₂ gas control unit guarantees cooling efficiency
- The electrical cooling unit helps to reduce running costs

System Expandability*

- The optional Auto Sampler and the different cooling systems allow the most appropriate configurations for all application needs

TA 7000 SERIES DSC 7020

High Sensitivity Differential Scanning Calorimeter



Glass transition of a minute amount of polystyrene

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 sample masses.
- The wide measurement range and the use of Hitachi pressure containers make the instrument suitable for the widest possible application range incl. safety evaluations.

The Full Line of Options

- Hitachi is known for its precision instruments. The optional Auto Sampler guarantees easy operation and high sample throughput.
- Software controlled mass flow controllers ensure that the atmosphere and the flow rates are correct for user needs:
- The flexibility of cooling units enables all applications in the range from -170 to 725°C to be precisely controlled.

Automatic Liquid N2 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 -160°C to 725°C with one cooling system.

Electrical Cooling Unit

Easy to handle and no consequential costs at high performance are the key features of this unique cooling system in the temperature range from -80 to 400°C.



Auto LN₂ Cooling Unit



Electrical Cooling Unit

Model Name	DSC7020
Heat flow measurement method:	Heat flux
Temperature range:	-170 to 725°C
Measurement range:	±350 mW
RMS noise/sensitivity:	0.1 µW/0.2 µW
Scanning rates:	0.01 to 100°C/min
Atmosphere:	Air, inert gas flow
Sample containers (option)	• Open containers (aluminum) • Hermetic sealed containers (aluminum) • Sealed containers (aluminum, silver, stainless steel, stainless steel, gold coating)
Gas purge control (option)	• Gas Controller • Mass Flow Controller
Auto sampler (option)	50 samples; mechanical finger transport
Cooling unit (option)	• Automatic Ln ₂ Gas Cooling Unit • Electrical Cooling Unit • Forced Air Cooling Unit
Dimensions	420(W)x620(D)x320(H)mm, With-sampler attached: 420(W)x620(D)x620(H)mm

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