

# EXSTAR DSC7020

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

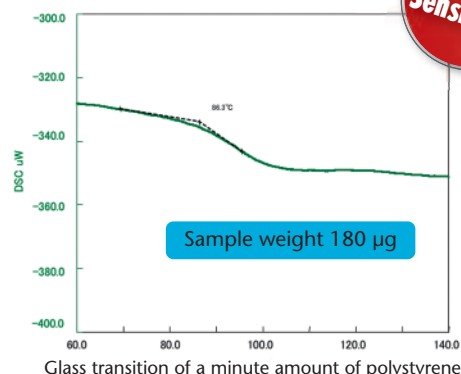
### The New cooling systems

- The integrated liquid N2 gas control unit guarantees cooling efficiency
- The electrical cooling unit helps to reduce following costs

### System Expandability

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

## High Sensitivity 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 use of the SIINT pressure containers make the instrument suitable for the widest possible application range incl. safety evaluations.

### The Full Line of Options

- SIINT 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 -170 to 725°C to be precisely controlled.

### Automatic Liquid N<sub>2</sub> 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°C to 400°C.



Model name	DSC7020
Heat flow measurement method	Heat flux
Temperature range	-170 to 725°C
Measurement range	±350 mW
RMS noise / sensitivity	0.1μW / 0.2μW
Scanning rates	0.01 to 100°C/min
Atmosphere	Air, inert gas flow
Sample containers (option)	<ul style="list-style-type: none"> <li>• Open containers (aluminum)</li> <li>• Hermetic sealed containers (aluminum)</li> <li>• Sealed containers (aluminum, silver, stainless steel, stainless gold coating)</li> </ul>
Gas purge control (option)	<ul style="list-style-type: none"> <li>• Gas Controller</li> <li>• Mass Flow Controller</li> </ul>
Auto sampler (option)	50 samples; mechanical finger transport
Cooling unit (option)	<ul style="list-style-type: none"> <li>• Automatic LN2 Gas Cooling Unit</li> <li>• Electrical Cooling Unit</li> <li>• Forced Air Cooling Unit</li> </ul>
Dimensions	420 (W) x 620 (D) x 320 (H) mm, With auto-sampler attached: 420 (W) x 620 (D) x 620 (H) mm



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