Microcalorimetry from -45 °C to 120 °C

Designed for the study of samples (denaturation, transition, gelification, reaction, etc.) in isothermal and scanning mode over a wide temperature range (-45 to 120 °C).

HIGHLIGHTS include:

• Its high sensitivity and versatility makes the µDSC7 evo able to detect and measure the sublest transitions precisely and accurately, which the standard DSC cannot.
• µDSCs are outstanding isothermal calorimeters able to detect low heats of interaction in formulated products.
• For «batch» measurements and when high pressure capabilities are required.

µDSC7 EVO CALORIMETRIC SENSOR

Peltier elements for temperature control
Sample cell
Reference cell
Peltier elements for heat flow measurement

SPECIFICATIONS

<table>
<thead>
<tr>
<th>Parameter</th>
<th>Specification</th>
</tr>
</thead>
<tbody>
<tr>
<td>Temperature range</td>
<td>-45 to 120 °C</td>
</tr>
<tr>
<td>Programmable temperature scanning rate</td>
<td>0.001 to 2 °C.min⁻¹</td>
</tr>
<tr>
<td>Cells</td>
<td>1 ml, made of Hastelloy C, removable</td>
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<tr>
<td>Pressure (measured &amp; controlled)</td>
<td>400 bar / 5800 psi or 1000 bar / 14 600 psi, requires the use of high pressure cells and gas panel</td>
</tr>
<tr>
<td>Calisto software</td>
<td></td>
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</tbody>
</table>

CLOSED «BATCH» CELL

Sample

AMPOULE CELL

Gas-TIGHT HIGH-PRESSURE CELL

High Pressure Gas Panel
For the control of sample pressure we offer two automated solutions for different pressure ranges:

200 bar Gas Panel
• Pressure control: accuracy ± 2.5 bar, stability ± 2.5 bar
• Pressure control by means of a 300 ml buffer

1000 bar Gas Panel
• Pressure control: accuracy ± 2 bar typical, stability ± 1 bar typical
• Measured quantity of injected gas
• Controlled increase of pressure

See µDSC7 evo application notes

www.setaram.com