

# Differential Scanning Calorimeter (DSC)

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**Manufacturer:** SETARAM

**Model:** DSC SETLINE

**Applications:** Heatflow and Specific Heat Measurement of Solid, Powder and Liquid Samples

**Technical Details:**

Single-phase mains supply	230 V $\pm$ 10 % 50/60 Hz
Power	320 W
Safety equipment Fuses	2A temporisé T5AH 250 V (size 5x20)
Gas inlet pressure	3 bars maximum
Operating ambient temperature	5°C to 40°C
Relative humidity	10 to 60 %
Dimension L x H x P (mm)	DSC 380 x 320 x 500

	DSC + cryopresor 380 x 400 x 500 DSC + liquid nitrogen tank 380 x 700 x 500
Mass	DSC : 25 kg
Working temperature range	RT to 700°C
	-170°C to 500°C LN2 cooler
	-70°C to 400°C Cryothermostat (These values vary according to the crucibles and carrier gas used.)
Programming rate	0.001 to 100°C/min (These values vary according to the options or gases used)
Sample volume	<p>Aluminum crucible 30 µl (recommended for the analysis of small masses of solid samples.)</p> <p>Aluminum crucible : 100 µl (recommended for the analysis of larger masses of solid samples as well as liquid.)</p> <p>Alumina crucible 30 µl (Recommended for measurements at high temperatures (over 550°C) or with substances that may react with aluminium)</p> <p>HP crucible : 30 µl (for products analyses with high vapour pressures (such as liquids) as well as material studies that can decompose and produce large volumes of gas.)</p>
Enthalpy accuracy / precision (%)	+/- 0.8 / 2.5
Temperature accuracy / precision (°C)	+/- 0.30 / 0.50