

Key Technical Data

NETZSCH

DSC 3500 <i>Sirius</i>	
DSC type	Gas-tight heat flux system
Temperature range	-170°C to 600°C
Heating/cooling rates	0.001 K/min to 100 K/min (cooling rate depends on temperature)
Measurement range	± 650 mW
Accuracy	<ul style="list-style-type: none"> ■ Temperature: 0.1 K ■ Enthalpy: < 1% for metals; < 2% for most materials
Cooling devices (options)	<ul style="list-style-type: none"> ■ Air compressor cooling: RT to 600°C ■ Vortex cooling: 0°C to 600°C ■ Intracooler IC 40: -40°C to 600°C; Intracooler IC 70: -70°C to 600°C ■ Liquid nitrogen cooling: -170°C to 600°C ■ Al cooling body
Atmospheres	Oxidizing, inert (static, dynamic)
Gas control	<ul style="list-style-type: none"> ■ 3 integrated frits; 3 magnetic valves (on/off programmable) ■ Optional 3 mass flow controllers or gas flow control device
Oxidative-Induction Time	Integrated in the software
Automatic sample changer (ASC)	<ul style="list-style-type: none"> ■ For up to 20 samples and references (optional) ■ Removable magazine
Software add-ons (optional)	<ul style="list-style-type: none"> ■ Temperature-modulated DSC ■ Specific heat capacity (c_p) determination ■ <i>Peak Separation</i> ■ <i>Thermokinetics</i> ■ <i>AutoEvaluation</i> ■ <i>Identify</i>
Accessories	<ul style="list-style-type: none"> ■ Variety of crucibles (Al, Pt, Al₂O₃, Au, Ag, Cu, autoclaves, etc.) ■ For easy sample preparation, <i>SampleCutter</i> and sample preparation kit
Dimensions of instrument	<ul style="list-style-type: none"> ■ Height 380 mm (560 mm with ASC) x width 320 mm x depth 520 mm ■ Mass: 28 kg