

# Technical Specifications

	DSC 404 <b>F1</b> Pegasus®	DSC 404 <b>F3</b> Pegasus®
Temperature range	-150°C to 2000°C	-150°C to 2000°C
Furnaces	Standard and special furnaces	Standard and special furnaces
Heating/cooling rate	0.001 K/min to 50 K/min (depending on furnace type)	0.001 K/min to 50 K/min (depending on furnace type)
Furnace hoist	Motorized double hoist for two furnaces or one furnace combined with the ASC	Motorized double hoist for two furnaces or one furnace combined with the ASC
Sensor types	DTA, DSC, DSC-c <sub>p</sub> (quick and safe interchange)	DTA, DSC, DSC-c <sub>p</sub> (quick and safe interchange)
c <sub>p</sub> measuring range <sup>1</sup>	Up to 5 J/(g*K)	Up to 5 J/(g*K)
c <sub>p</sub> determination <sup>1</sup>	Yes	Optional
TM-DSC	Yes	No
BeFlat® (DSC)	Yes	Optional
Tau-R® Mode	Yes	Optional
Purity Determination	Optional	Optional
Gas atmospheres	Inert, oxidizing, reducing	Inert, oxidizing, reducing
Vacuum-tightness <sup>2</sup>	10 <sup>-4</sup> mbar (10 <sup>-2</sup> Pa)	10 <sup>-4</sup> mbar (10 <sup>-2</sup> Pa)
Gas control	3 integrated mass flow controllers (MFCs)	3 integrated frits (optionally 3 mass flow controllers (MFCs))
Automatic sample changer (ASC)	20 samples, removable carousel (optional)	20 samples, removable carousel (optional)
Automatic evacuation	Software-controlled	Optional
Coupling to evolved gas analyzers	FT-IR, MS, FT-IR-MS, GC-MS, GC-MS-FT-IR	FT-IR, MS, FT-IR-MS, GC-MS, GC-MS-FT-IR
PulseTA®	Optional	Optional

<sup>1</sup> c<sub>p</sub>, specific heat capacity

<sup>2</sup> Actual achievable vacuum depends on the selected evacuation system