

Key Technical Data

NETZSCH

FT-IR Coupling Systems				
	TG 209 F1 <i>Libra</i> [®]	DSC 404 F1/F3 ; STA 2500 <i>Regulus</i> [®] ; STA 449 F1/F3/F5	TMA 402 F1/F3 ; DIL 402 <i>Expedis</i> <i>Select/Supreme</i>	DSC 204 F1 <i>Phoenix</i> [®]
Temperature range ¹⁾	RT-1000°C (F3) 10°C(RT)-1100°C (F1)	RT-1600°C (<i>Regulus</i> [®] , F5) -150°C-2000°C (F1/F3)	RT-1550°C (TMA) RT-2000°C (DIL)	RT-700°C
Measurements under reduced pressure	Yes (F1)	Yes	Yes	No
Vacuum-tightness of the complete system	Yes (F1)	Yes	Yes	No
Additional automatic sample changer operation	Yes (F1)	Yes (DSC 404, STA 449) No (<i>Regulus</i> [®])	No	Yes
Possible Bruker FT-IR spectrometer types	TENSOR, VERTEX	TENSOR, VERTEX	TENSOR, VERTEX	TENSOR, VERTEX
Stand-alone operation of the FT-IR	Yes	Yes	Yes	Yes
Additional analytical instruments to be coupled	MS or GC-MS (F1)	MS or GC-MS	MS or GC-MS	MS
T _{max} transfer line/ adapter head	230°C/300°C	230°C/300°C	230°C/300°C	230°C/300°C
T _{max} gas cell	230°C	230°C	230°C	230°C
Set-up gas cell	Internal or external	Internal or external	Internal or external	Internal or external
Material gas cell	Stainless steel	Stainless steel	Stainless steel	Stainless steel
Gas cell – path length	123 mm	123 mm	123 mm	123 mm
Gas cell – volume	8.7 ml	8.7 ml	8.7 ml	8.7 ml
Detector	DLaTGS (internal) or MCT (external)	DLaTGS (internal) or MCT (external)	DLaTGS (internal) or MCT (external)	DLaTGS (internal) or MCT (external)

1) For STA, DIL, TMA instruments, variable furnaces are required to cover the stated temperature range