



ULTRA-HIGH TEMPERATURE CAPABILITY
to 2400°C with a single furnace

VARIETY OF ATMOSPHERE CONDITIONS
multiple carrier and reactive gas options

HIGH ACCURACY & VERSATILE
hang-down symmetrical beam balance specifically designed for TGA applications

ACCURATE AND SENSITIVE
tri-couple DTA technology

MODULAR ADAPTATIONS
up to 2400 °C: TGA, DTA, TG-DTA, TMA
up to 1600 °C: DSC, TG-DSC

EXTERNAL COUPLING CAPABILITY
with evolved gas analyzers (FTIR, MS, GCMS, MSFTIR, or FTIR-GCMS)

GENERAL		TGA		STA	
				DTA, TG-DTA	DSC, TG-DSC
Temperature range (°C)		Ambient to 2400		Ambient to 2400	Ambient to 1600
Programmable heating rate (°C/min)		0.01 to 100		0.01 to 100	
Crucible volumes and maximum sample size		55 to 2 500 µl or Height: 20 Diam: 14 mm without crucible		30 to 300 µl	80 to 100 µl
Gas flow	PureGas option	1 carrier gas flow among 3 connected, 1 Mass Flow Controller (MFC)			
	GasBlend option	1 carrier gas flow among 3 connected + 1 auxiliary gas flow, 2 MFC			
	MultiGasBlend option	1 carrier gas flow among 3 connected + 1 pure OR blended auxiliary gas from up to 3 of the 5 connected ones, 4 MFC			
	Corrosive gases option	1 carrier gas flow among 3 connected, 1 Mass Flow Controller (MFC) + 1 corrosive gas line without mass flow control			
Vacuum		Primary (< 1 mbar), forced primary (< 5.10 ⁻² mbar), secondary vacuum options			
BALANCE		HIGH SENSITIVITY	HIGH VERSATILITY	HIGH CAPACITY	
Measuring range (mg)	Small	+/- 5	+/- 200	+/- 300	
	Large	+/- 50	+/- 2 000, AUTO-TARE	+/- 3 000	
Maximum loading capacity (g)		35	35	100	
TGA baseline drift (temperature scanning)^{b,c}		30 µg up to 1000 °C 40 µg up to 1600 °C	35 µg up to 1000 °C 50 µg up to 1700 °C	< 100 µg up to 1 700 °C	
TGA baseline drift precision (µg)^c		+/- 3	+/- 10	-	
Balance resolution (small range) (µg)		0.00059	0.023	0.03	
DTA/DSC				DTA, TG-DTA	DSC, TG-DSC
Calorimetric precision (%)^{c,e}				+/- 2 % ^f	+/- 1 %
Temperature precision (°C)^{c,e}				+/- 0.8 °C	+/- 0.4 °C

b. Under helium flow; c. Typical data; d. Pressure dependent; e. Based on metal standard melting; f. If calibrated



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GENERAL		TMA version
Temperature range (°C)		Ambient to 2400
Programmable heating rate (°C/min)		0.01 to 100
Maximum sample size (mm)		Height : 20 Diam : 10
Gas flow	PureGas option	1 carrier gas flow among 3 connected, 1 Mass Flow Controller (MFC)
	GasBlend option	1 carrier gas flow among 3 connected + 1 auxiliary gas flow, 2 MFC
	MultiGasBlend option	1 carrier gas flow among 3 connected + 1 pure OR blended auxiliary gas from up to 3 of the 5 connected ones, 4 MFC
Vacuum		Primary (< 1 mbar), forced primary (< 5.10 ⁻² mbar), secondary vacuum options
TMA		
Resolution (nm)		0.2
Measuring range (mm)		+/- 2