

ULTRA-HIGH TEMPERATURE CAPABILITY

to 1750 °C with the same dual furnace

HIGHEST ACCURACY WITH ITS HANG-DOWN SYMMETRICAL BEAM BALANCE

eliminate drift & buoyancy effect, improve gas/sample interaction

MODULAR ADAPTATIONS ALLOWING

up to 1750 °C: TGA, DTA, TG-DTA up to 1600 °C: DSC, TG-DSC

ACCURATE AND SENSITIVE

Tri-couple DTA technology

VARIETY OF ATMOSPHERE CONDITIONS

multiple carrier and reactive gas options

EXTERNAL COUPLING CAPABILITY

designed for evolved gas analyzers (FTIR, MS, GCMS, MSFTIR, or FTIR-GCMS)

GENERAL		TGA	STA		
		IGA	DTA, TG-DTA	DSC, TG-DSC	
Temperature range (°C)		Ambient to 1750	Ambient to 1750	Ambient to 1600	
Programmable heating rate (°C/min)			0.01 to 100		
Crucibles volumes and maximum sample size		55 to 1 500 μl or Height: 20 Diam: 14 mm without crucible	20 to 300 μl	75 to 110 μl	
PureGas option		1 carrier gas flow among 3 connected, 1 Mass Flow Controller (MFC)			
Gas flow	GasBlend option		1 carrier gas flow among 3 connected + 1 auxiliary gas flow, 2 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) options		
Weight			145 kg / 320 lbs		
Dimensions (Height / Width / Depth)			170 / 60 / 55 cm (66.9 / 23.6 / 21.6 in)		
BALANCE					
Measuring range (mg)		Small	+/- 20		
		Large	+/- 200		
Maximum loading capacity (g)		35			
TGA baseline drift (temperature scanning) ^{b,c}			5 μg up to 1700 °C		
TGA baseline drift precision (μg) ^c			+/- 1		
Balance resolution (small range) (µg)			0.002		
	DTA/DSC			DTA, TG-DTA	DSC, TG-DSC
Calorimetric precision ^{c, e}				+/- 2 % ^f	+/- 1 %
Temperature precision ^{c, e}			-	+/- 0.8 °C	+/- 0.4 °C
Temperature accuracy ^{c, e}				+/- 0.4 °C	+/- 0.25 °C

b. Under helium flow; c. Typical data; e. Based on metal standard melting; f. If calibrated Specifications are subject to change