

THEMYS ONE
THEMYS ONE+



HIGH TEMPERATURE CAPABILITY

with the convenience of ONE FURNACE to reach temperatures as high as 1150 or 1600 °C

HIGH SENSITIVITY BALANCE FOR THE DETECTION OF SMALL MASS VARIATIONS

specifically designed for TGA analysis

PLUG AND PLAY INTERCHANGEABLE RODS

to perform TGA, TG-DSC, TG-DTA, and 3D high sensitivity calorimetry / Cp measurements

EXTERNAL COUPLING CAPABILITY

evolved gas analyzers (FTIR, MS, GC/MS, MS-FTIR, or FTIR-GC/MS)

32 POSITION AUTOSAMPLER

on the THEMYS ONE+ version

GENERAL	TGA	STA	DTA/DSC
Temperature range (°C)		Ambient to 1 150 Ambient to 1 600	
Programmable heating and cooling rate (°C/min)		0.01 to 100	
Furnace cooling		30 min (1 150 to 50°C) 32 min (1 600 to 50°C)	
Gas flow		Base: two gas inlets (inert or reactive) Option: selection from 3 different carrier gases (controlled flow up to 200 ml/min), mixing of one of these carrier gases with another «auxiliary» gas (controlled flow up to 16 ml/min)	
Vacuum		< 10 ⁻¹ mbar. Option for operations under controlled vacuum down to 30 mbar.	
Weight		60 kg / 132 lbs	
Dimensions (Height / Width / Depth)		700 / 500 / 440 mm (27.6 / 19.7 / 17.3 in)	
BALANCE			
Maximum balance capacity (g)		20	-
Weight range (mg)		+/- 1 000; +/- 200	-
Balance resolution (small range) (µg)		0.02	-
DTA/DSC			
DSC rod – resolution (µW)	-	0.4 / 10 dependent on sensor	
3D Cp rod – Cp accuracy	-	down to within 2 % ^a	

a. Value depends on tested material type