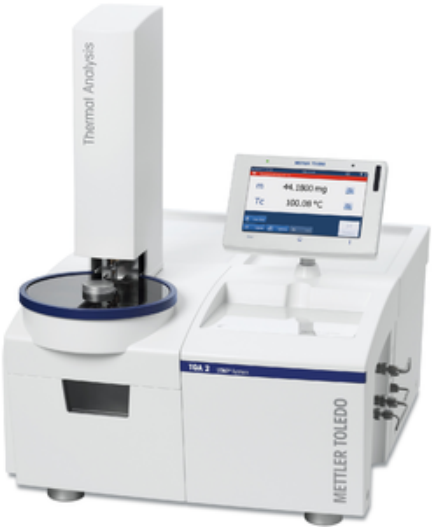
Mettler Toledo

TGA 2 Specifications



Temperature data	Small furnace (SF)
Temperature range	RT to 1100 °C
Temperature accuracy [1]	± 1 K
Temperature precision [1]	± 0.4 K
Heating rate [2]	0.02 to 250 K/min
Cooling time	20 min (1100 to 100 °C)
Cooling time with helium [2]	≤ 10 min (1100 to 100 °C)
Sample volume	≤ 100 µL

Special modes		
Automation	optional	
MaxRes		
TGA-MS, TGA-FTIR, TGA-GC/MS, TGA-Micro GC/MS		
Vacuum	> 10 mbar	> 10 mbar
TGA-Sorption	no	optional

Balance data	XP1
Measurement range	≤ 1 g
Resolution	1.0 µg
Weighing accuracy	0.005%
Weighing precision	0.0025%
Repeatability	< 0.001 mg
Typical Minimum Weight [3]	0.19 mg
Typical Minimum Weight USP [3,4]	1.9 mg
Internal ring weights	2
Blank curve reproducibility	better than ± 10 µg over the whole temperature range

Dimensions	
Width/depth/height	52/63/28 cm (62.5 cm with sample changer)
Weight	40 kg (44 kg with sample changer)
Power supply	230 V, 60 Hz, 6 A or 115 V, 50 Hz, 12 A

Approvals

IEC/EN61010-1:2001, IEC/EN61010-2-010:2003
CAN/CSA C22.2 No. 61010-1-04
UL Std No. 61010A-1
EN61326-1:2006 (class B)
EN61326-1:2006 (Industrial environments)
FCC, Part 15, class A
AS/NZS CISPR 22, AS/NZS 61000.4.3
Conformity mark: CE

[1] based on Curie reference substances
[2] depends on instrument configuration
[3] depends on instrument environment and condition
[4] USP = United States Pharmacopeia

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DSC 3 Specifications

Temperature data

Temperature range	air cooling	RT to 700 °C (400 W)
	cryostat cooling	–50 to 700 °C
	IntraCooler	–100 to 700 °C
	liquid nitrogen cooling	–150 to 700 °C
Temperature accuracy [1]		± 0.2 K
Temperature precision [1]		± 0.02 K
Furnace temperature resolution		± 0.00006 K
Heating rate [2] RT to 700 °C		0.02 to 300 K/min
Cooling rate [2]		0.02 to 50 K/min
Cooling time	air cooling	9 min (700 to 100 °C)
	cryostat cooling	5 min (100 to 0 °C)
	IntraCooler	5 min (100 to 0 °C)
	liquid nitrogen cooling	15 min (100 to –100 °C)

Calorimetric data

Sensor type		FRS 5+
Sensor material		Ceramic
Number of thermocouples		56
Signal time constant		1.8 s
Indium peak (height to width)		17
TAWN	resolution	0.12
	sensitivity	11.9
Measurement range	at 100 °C	± 350 mW
	at 700 °C	± 200 mW
Resolution		0.04 µW
Digital resolution		16.8 million points

Sampling

Sampling rate	maximum 50 values/second

Special modes

ADSC	standard
IsoStep™	optional
TOPEM™	
Automation	
Photocalorimetry	

Approvals

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CAN/CSA C22.2 No. 61010-1-04
UL Std No. 61010A-1
EN61326-1:2006 (class B)
EN61326-1:2006 (Industrial environments)
FCC, Part 15, class A
AS/NZS CISPR 22, AS/NZS 61000.4.3
Conformity mark: CE

Specifications and approvals for the IntraCooler option are only valid for systems with Huber coolers.

[1] based on metal standards
[2] depends on instrument configuration