

Technical Specifications

NETZSCH

STA 319 Jupiter®

Design	Top-loading
Instrument interface	Touch display
Temperature range	(10°C) RT to 1025°C/1100°C
Heating rate	0.001 K/min to 300 K/min
Cooling time ¹	<ul style="list-style-type: none"> ▪ In nitrogen: ≈ 12 min from 1100°C to 100°C ▪ In helium: ≈ 5 min from 1100°C to 100°C, ≈10 min to 25°C
Max. sample weight/measuring range	2 g
Balance resolution	20 ng
TGA accuracy	0.0003%
DSC accuracy	± 5%
Temperature resolution	0.001 K
Temperature accuracy ²	± 0.3 K (after calibration by DSC/c-DTA®, indium)
Temperature precision ³	0.15 K
Temperature calibration	<ul style="list-style-type: none"> ▪ DSC/c-DTA®, also for detection of endo- and exothermal effects ▪ TGA calibration ▪ Curie calibration
Vacuum-tightness	< 10 ⁻¹ mbar
<i>AutoVac</i>	Automatic evacuation and refilling of purge gas; optionally available when MFC is selected
Gas control (optional)	<ul style="list-style-type: none"> ▪ Gas switch ▪ integrated 3-fold MFC ▪ integrated 4-fold MFC
Evolved Gas Analysis	Optional
192+12-position ASC	Optional
Piercing device	Optional
Unlimited Warranty ⁴	Optional

¹ 21°C chiller temperature, 200 ml/min He (purge + protective gas); the maximum temperature of the TGA system depends on the He gas flow: at 200 ml/min, T_{max} is 1020°C.

²Maximum deviation between measured and literature value

³Standard deviation based on 10 measurements

⁴In connection with maintenance contract