SHIMADZU
Excellence in Science

DTA-50

Differential Thermal Analyzer

High Temperature (ambient to 1500°C) heat-flux Differential Thermal Analyzer

This DTA uses a dumbbell-shaped detector. A temperature controller, gas flow adjuster, and transmission interface have all been incorporated into a slim, 173 cm-wide body. A high-temperature DSC function is also included.

- Temperature range: Room temperature to 1500°C
- Measurement range: ±0.2 to ±1000 µV (from ±0.2 mW)
- Heating speed: 0 to +50°C/min
  High Temperature Heat Flux DTA, Provides Quantitative Calorimetry Measurements Quick Response and High Sensitivity Accurate Temperature Control High Temperature DSC Type Performance Rapid Atmosphere Purge

Specifications

Temperature range	Ambient to 1500°C	Temperature program format	99 steps maximum
	(accurate type use up to 1100°C)	Temperature program file	Up to 100 files
Measuring range (DTA/DSC)	0.2 to 1000 V/0.2mW	Sample	Solid or liquid
Signal output	Analog and digital	Dimensions	W^{173}x D^{540}xH^{400}mm
Programmable heating rate	0.1 to 50.0°C/min, and 0.1 to 50.0°C /hour	Power supply	AC100V, 120V, 220V,
Hold time	0 to 999min, 0 to 999 hour		240V, 1.2kVA, 50/60Hz
Atmosphere control	Built-in gas flowmeter (250ml/min maximum)		