

SDTGA6000 Thermogravimetric Analyzer - TGA

Dimensions: 550mm*590mm*530mm(moisture & ash furnace),
550mm*650mm*815mm(volatil furnace)
Weight: 70kg(moisture & ash furnace), 95kg(volatil furnace)



Application

SDTGA6000 can be used to determine the moisture, ash, volatile matter, LOI (loss on ignition) as well as calculation of fixed carbon and calorific value in coal, coke, solid wastes and other solid biomass fuel.

It can also be used for the calculation of carbon content in fly ash and clinker.

Specification

Test index	Moisture, ash, volatile matter and LOI
Standards	ISO11722, ISO1171, ISO562, ASTM-D3173 / D3174 / D3175 / D7582
Precision	0.02% RSD
Furnace	Dual furnaces, one for moisture and ash, one for volatile matter
Furnace temperature	Room temperature~1000 °C
Temperature control precision	±2 °C
Temperature resolution	0.1 °C
Balance Resolution	0.0001g
Max. Samples	19 samples + 1 blank sample position (Moisture & Ash) 25 samples + 1 blank sample position (Volatile matter)
Quantity of sample / test time	Full indexes for 19 samples< 120 min (Quick method)
Sample weight	0.5-1.1g
Max. Power	4kW for moisture/ash testing; 2.5kW for volatile matter testing
Optional models	SDTGA6000A(moisture & ash),SDTGA6000V(volatile matter)

Highlights

- Dual furnaces structure, the system consists of two parts, one for moisture and ash analysis, other for volatile matter analysis.
- For volatile matter analysis, vertical furnace structure is adopted with 26 positions. Upper part for high temperature volatile matter test while lower part for low temperature cooling and weighing, makes the test result more accurate and test efficiency greatly improved.
- For moisture and ash analysis, 19 samples can be loaded once + 1 blank sample position.
- Flexible software design, test procedure, analysis time, temperature etc. can be customized.
- Unique sample weighing mode, single sample weighing and batch sample weighing are both available, makes the operation convenient.
- After finishing the moisture and ash test, furnace cover will be opened automatically for furnace cooling down, thus to shorten the waiting time for next batch of test, makes the operation safe and efficient.
- LED displays on both furnaces to show real-time balance weight data, it makes the sample weighing more convenient.