



TGA - 3700

Thermo Gravimetric Analyser



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>> APPLICATION FIELD

The automatic industrial analyzer is used to automatically measure the moisture, ash and volatile content of coal in batches.

The TGA 3700 dual-furnace industrial analyzer developed by us, fully masters the thermogravimetric analysis technology, can automatically determine the moisture, ash, and volatile content of coal samples in batches. It has the advantages of high automation, accurate results, and easy operation. It can be used in coal, electric power, Metallurgy, scientific research institutions and other industry departments measure the moisture, ash, and volatile content of various coals, and calculate the fixed carbon content, which is especially suitable for power plants, chemical plants and new dry cement plants with large sample volumes.

Features

- Measure the water, ash, and volatile index of 19 samples. After setting out, no one is on duty. There is no need to replace the crucible or remove the lid of the crucible in the middle.
- The instrument consists of two parts: the volatile matter furnace measures the volatile matter indicators, and the water ash furnace measures the water ash indicators. The test process is fully in line with the national standard method to ensure the accuracy of the results.
- Reasonable structure design adopts a new sample delivery mechanism, no translation device such as a "manipulator", nor two sample delivery rod devices, so the crucible will not drop or break during the transfer process.
- The analysis method is flexible, and the classical method or the fast method can be arbitrarily selected according to user needs.
- The fixed carbon, hydrogen and calorific value can be automatically calculated.
- The imported one-tenths balance is used to ensure accurate weighing and stable test performance. Imported furnace wire and insulation materials are used, which are energy-saving, durable and accurate in temperature control.
- The operation interface is friendly, the balance reading is displayed in an enlarged dialog box, and the balance reading is clear at a glance, which is convenient for the user to accurately control the sample weight.
- •The software is powerful, enabling data query, printing, statistics, etc. at any time.



>> TECHNICAL PARAMETERS

1. Measuring range: $0 \sim 100\%$

2. Measurement accuracy: meet the requirements of "Industrial Analysis of Coal", "Automatic Instrument Method for Industrial Analysis of Coal"

3. Temperature control range: room temperature \sim 1200 $^{\circ}$ C

4. Temperature control accuracy: each temperature point: ±2 °C

5. Baseline stability : ≤50 μg from 50 to 1000°C

6. Baseline Resolution : $\leq 1 \mu g$

7. Baseline Sensitivity : $\leq 1 \mu g$

8.Baseline Precision : ≤1 μg

9. Cooling Type: Forced air cooling (1200°C to 100°C in approx < 10 min and 1200°C to 50°C in approx 20 min)

10. Sensor: Thermocouple

11. Number of samples: 19

12. Sample quality: 1±0.1g, users can also set by themselves 0.5g ~1.5g

13. Gas requirements:

Oxygen: purity 99.5%, pressure after decompression 0.2MPa (using air compressor, no need for ventilation)

Nitrogen: purity 99.5%, pressure 0.2MPa after decompression

Pressure reducer: high end 0 \sim 25MPa; low end 0 \sim 1.0MPa

14. Instrument power consumption: ≤9 kW

15. Host size (length×width×height):

Water ash furnace: 62×58×55cm

Volatile matter furnace: 62×58×77cm

16. Weight:

Water ash furnace: 80kg, Volatile furnace: 60kg

Optional: Purging Gas - Compatible for nitrogen, argon, oxygen, hydrogen.

- Flow rate upto 200 ml



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HPLC Servicing: HPLC Servicing: We have team of service engineers who can attend to any make of HPLC promptly @the most

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shooting.

Validations :Validations :We have protocols for carrying out periodic Validations as per GLP/GMP/USFDA norms.

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Micro Plate Reader/Washer



URINOVA 2800 Urine Analyzer



Total Organic Carbon 3800



Fully Automated CLIA



NOVA-2100 Chemistry Analyzer



PCR/Gradient PCR/ RTPCR



TOC Analyzer



Laser Particle Size Analyzer



Ion Chromatograph



Water purification system

Regulatory compliances



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- 2. Improving quality of life by offering YOGA Training courses, Work shops/Seminars etc.
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