5E-MAG6700
Automatic Proximate Analyzer-TGA

Standard Configuration

Computer
Printer
Main analyzer: Part I and Part II
Air compressor
Volatile matter crucibles
Ash Crucible
Weighing rod base
Weighing rod
Three-core power socket and plug/20A
Crucible lid for volatile matter
Glass spoon(small size)
Standard Reference Material(GBW)
Tool kit

Application

5E-MAG6700 Automatic Proximate Analyzer (also called Thermogravimetric Analyzer) is used to determine the moisture, ash, volatile matter in coal, coke, biomass, limestone and iron ore, food and feedstuffs by thermogravimetric method. It can also determine residual ash and slag combustibles in accordance with ASTM, which is widely applied in power plants, coal mines, metallurgy, food industry, chemical industry, commercial inspection, scientific research, education, etc.

Features

High Stability and Reliability

1. Dual furnace which could work both simultaneously and independently. Unique isolation board to ensure accurate result of volatile matter.
2. Patented technology of heat-resistant to ensure stability and reliability.
3. Built-in balance ensures unbeatable accuracy, comply with thermogravimetric method.
4. Unique design to ensure the stability of heating efficiency.
5. Using blank crucible to calibrate the influence of the thermal buoyancy.

Convenient Operation

1. The operator is limited to just adding sample to a crucible.
2. Reference method and customized method available.
3. Capable to load sample continuously and singly.
4. Real time display of balance reading, which makes it convenient to control the precision of sample weight.

Cost Saving

Available for analysis without oxygen and nitrogen by configured air pump, except for lignite.

Good Safety

Automatically heating off when open the ash furnace cover.

Test Data

Sample Name	Mad(%)	Ad(%)	Vd(%)
GBW11109f-1	3.13	30.91	19.16
GBW11109f-2	3.13	30.93	19.26
Average	3.13	30.92	19.21
Certified Value	-	30.97	19.09
ASTMD7582 Repeatability Limit(r)	0.24	0.69	0.56
ASTMD7582 Reproducibility Limit(R)	-	0.85	1.52
Repeatability	0.00	0.02	0.10

Precision Verification by using ASTM Method (950°C for 7 minutes Volatile Matter)
Conclusion: This 5E-MAG6700 Automatic Proximate Analyzer passed the manufacturer's specification.

Specification

Model	5E-MAG6700	
Conforms to Method	ASTM D3173/D3174/D3175/D7582, ISO17246, GB/T 30732, GB/T 212, ISO 18123/18122/18134	
Max. Sample Loading	19	
Furnace	Dual furnace	
Analysis Time	⩽120mins for 19 samples	
Sample Mass	0.8-1.2g recommended / up to 5g	
Temp. Range	Up to 1050°C	
Temp. Control Precision	±2°C	
Precision of Balance	0.0001g	
Power Supply	Single phase, AC220V±10%, 50/60Hz	Part I: ⩽4 kW Part II: ⩽5 kW
Net Weight	Part I: 80kg	Part II: 50kg
Dimensions (L×W×H)	Part I: 550mm×580mm×890mm	Part II: 550mm×580mm×530mm