

5E-CS3800

Infrared Carbon Sulfur Analyzer

Standard Configuration

Computer	Crucibles
Main analyzer	Outer combustion tube
A/C adapter	Inner combustion tube
Anhydrous	Boat stop
Silica wool	O-ring kit
Tool kit	Standard Reference Material(GBW)



5E-IRS3600

Automatic Infrared Sulfur Analyzer

Up to 60 samples
per batch
automatically



Application

5E-IRS3600 Automatic Infrared Sulfur Analyzer is used to determine the total sulfur content by infrared absorption, which is widely applied in power plants, coal mines, metallurgy, chemical industry, commercial inspection, scientific research, etc.

5E-CS3800 Infrared Sulfur Carbon Analyzer is developed on the basis of 5E-IRS3600, which is used to determine the carbon and sulfur content in coal, coke, biomass, SRF and other organic combustibles. With the pioneering technology of auto loading and combustion, it can realize automatic analysis for large quantity samples with accurate results, which helps to minimize the manual operation and make the analysis easier.

Features

High Automation and Efficiency

1. Unique dual oxygen lance to increase the combustion efficiency
2. Maximum throughput with auto-loader, available for 60 samples per batch and easy to add or reduce sample quantity during analysis.
3. Patented sample delivering system realizes smooth work flow of pulling and discharging samples.
4. The sample mass can be automatically sent to the computer by balance connection.
5. Available for unattended operation by intelligent sensor.
6. Auto self-diagnosis and language alert.

Accuracy and Stability

1. Top quality ultra-low drift infrared cell to ensure stability of the testing results.
2. Reliable single Si-C spiral tube heating components.
3. Unique gas tightness structure to avoid the effect of SO₂ in air.

Easy Operation

1. Optimized gas circuit to minimize maintenance time.
2. Flow meter display the gas flow in real time.

Specification

Model	5E-CS3800	5E-IRS3600
Analysis Content	Carbon, Sulfur	Sulfur
Conforms to Method	GB/T 25214, GB/T 30733 DL/T 568, ASTM D4239	AS 1038.6.3.3, ASTM D1552, ASTM D3177, ASTM D4239, ASTM D5016, ISO19579, GB/T 214, GB/T 25214, GB/T 28732, BS 1016
Analysis Range	Sulfur: 0.01%-30% Carbon: 0.5%-100%	Sulfur: 0.01%-30%
Max. Sample Loading	Up to 60 samples per batch automatically (able to add in cycle)	
Analysis Method	Infrared absorption	
Analysis Resolution	Sulfur: 0.001% or 10ppm Carbon: 0.005% or 50ppm	Sulfur: 0.001% or 10ppm
Analysis Time per Sample	≤120s	
Sample Mass	100mg-400mg depends on sample condition	
Power Supply	Single phases, AC220±10%, 50/60Hz, ≤4kW	
Net Weight	70kg	
Dimensions(L×W×H)	980mm×615mm×680mm	