SYstemes de LABoratoires

CSBox HFA
Carbon And Sulfur Analyzer

For Inorganic Samples By High Frequency Induction Furnace

UOP703-09 DIN 24935 DIN EN ISO 9556 ISO 13902 ISO 4935

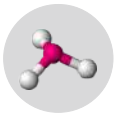
CSBox HFA Analyzer

Iron

Steel

Cast Iron

Refractories



Catalysts

ORBIT

25 YEARS OF EXCELLENCE

Orbit Technologies Pvt. Ltd.

Orbit Technologies Pvt. Ltd., India is an ISO 9001 certified manufacturer of Thermogravimetric Analyzers, Carbon & Sulfur Analyzers, Ash Fusion Analyzers, Fast Pyrolysis Analyzers & Other Analytical Instruments.
Orbit's high performance analytical instruments are used for precise and reliable results.
Orbit Technologies has obtained the Technology and Business to Manufacture and Sell Carbon & Sulfur Analyzers, Ash Fusion Analyzers & Pyrolyzers from SYLAB S.a.r.l France.
Sylab S.a.r.l France, founded in 1989, is a manufacturer of Carbon & Sulfur Analyzers, Ash Fushion Analyzers, Pyrolyzers & other Analytical Instruments

Carbon and Sulfur Analysis for Inorganic samples

CSBox HFA Analyzer

- User friendly design of Orbit, where furnace is isolated from the infrared analyzer to improve the life of the NDIR analyzer
- Automatic crucible loading with tool free auto cleaning of the combustion tube
- Fully computer controlled operation through software
- Two individual solid state IR detectors for Carbon and Sulfur detection
- Powerful Induction furnace for Inorganic samples analysis
- Single and Multi-point calibration facility
- Vertical furnace design with single sample auto loading

CSBox HF Analyzer is used to determine Carbon and Sulfur in Inorganic samples like steel, Iron, ores, finished metals and other inorganic samples.

Simultaneously it does Carbon and Sulfur determination with minimal sample preparation. It consists of two independent infrared cells with wide measuring range of Carbon and Sulfur. The measuring range of each infrared cell is modified to the user's specific requirement to ensure optimum measurement conditions for each application.

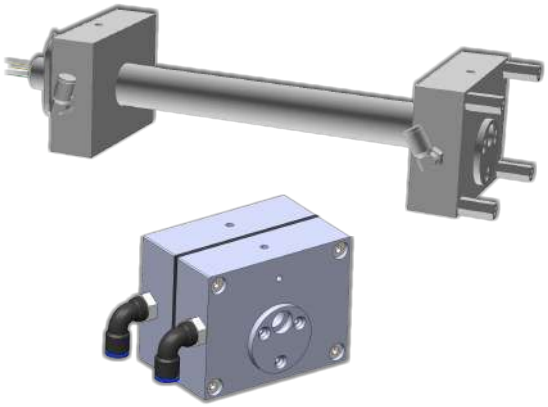
CSBox HF is supplied with a comprehensive user friendly software which features statistic reports, diagnostics and other functions.

High Frequency Induction Furnace for Combustion

- High frequency induction furnace ensures complete decomposition of samples like Steel, Ores, Cast iron, Refractory samples, etc.,
- Highly effective combustion for an extensive range of sample.
- Wide range of inorganic materials can be analysed
- Optimised catalyst permits for precise carbon detection
- Unique user friendly design of Orbit, where Furnace is Isolated from the infrared analyzer to improve the life of the NDIR analyzer
- Lower power requirements and low operating costs

Furnace

Two individual solid state IR detectors for Carbon and Sulfur

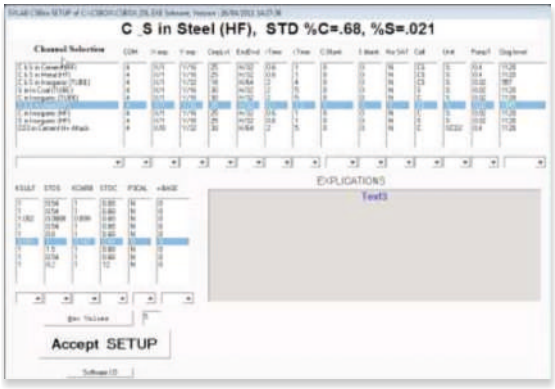


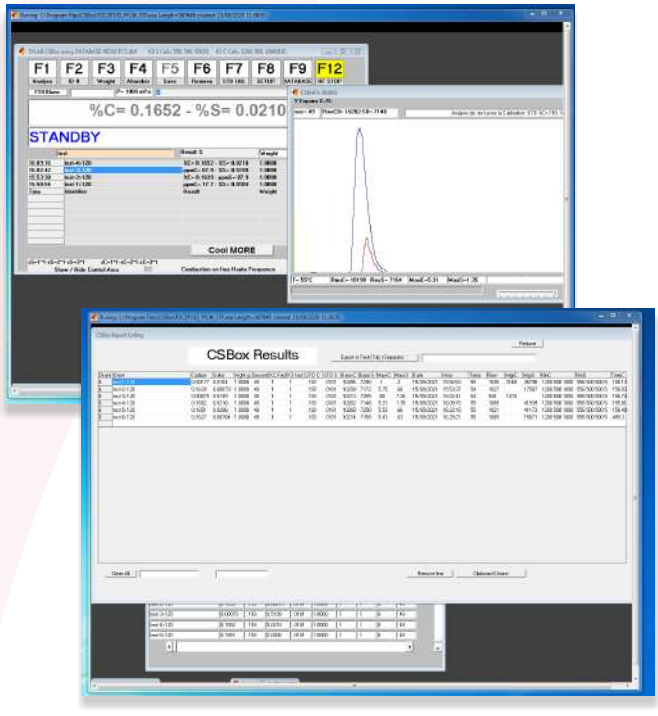
IR Detector

- Customized infrared cells provide wide, dynamic measuring range.
- The “Stainless Steel” IR path provides increased cell life time for analysis of halogen or acid containing samples.
- Analyzer uses static emitters and static detectors for better signal to noise ratio.
- Orbit uses 100% static transmitter without chopper, no blade to modulate the IR beam. The detector is pyroelectric with 100% static and non-dispersive.

Orbit’s CS software for Carbon and Sulfur Analyzers

- Orbit CS software gives complete solutions for measurement of Carbon and Sulfur content in inorganic materials. User will have complete access to analysis control like method setup, reports, diagnostics, data analysis and transfer graphs and other functions in a highly organised manner.
- CS software is designed for speed and ease of use .
- It is an easy method setup with automatic sample weight transfer from Analytical Balance.





- Capable to capture weights from all reputed analytical balances.
- Software allows to set up different methods and user profiles.
- Password protection facility.
- Grouping of sample data into sets depending on the customer choice.
- Instrument can be provided with external balance, printer and laboratory information management system (LIMS) with customizable transport feature supporting file.
- Advanced diagnostic features
- Instrument leak check feature providing available diagnostic tool and increasing reliability

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Other analyzers from Orbit for Coal, Mineral and Material analysis:

CSBox Tube Analyzer

CSBox Tube Analyzer with High Temperature Resistance Tube Furnace for Carbon and Sulfur in Organic materials.

CSBox Tube CS Analyzer

- High efficiency Horizontal furnace design
- System complies with all national and international test standards for Carbon and Sulfur analysis
- Programmable furnace temperatures and programmable temperature ramp rates
- Unique user friendly design of Orbit, where furnace is isolated from the infrared analyzer to improve the life of the NDIR analyzer

CS BOX DCS Analyzer

Reliable and precise Carbon and Sulfur measurements in both Organic and Inorganic samples

- Unique combination of two different combustion techniques in one analyzer.
- Single analyzer is capable to operate with two furnaces one for Organic and the other for Inorganic samples.
- Due to the unique combination of two different combustion techniques in one analyzer, the CS Box DCS analyzer ensures reliable C/S measurement in both organic and inorganic samples.
- Typical sample materials for the CS Box DCS analyzer are steel, iron, cast iron, copper, ceramics, soil, fuel, oil, coal and coke.

CSBox DCS Analyzer

Ash Fusion Analyzer

The Latest technology in the service of the fusion temperature determinations
IF 2000G-HDC for Coal and Coke ash samples
IF 2000G-HDBM for Biomass, Refuse-Derived Fuel (RFD), Solid mineral fuel and Solid bio fuel ash samples

Ash Fusion Analyzer

- Fully automatic instrument for determining the ash fusion points by means of image analysis.
- Orbit's Ash fusion analyzers use the most modern technology for monitoring, computing, storing results and curves obtained during the test.
- Up to 6 samples can be analysed in each batch.
- Real time monitoring of the samples and test process.

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