Sundy

SDCHN636

Carbon Hydrogen & Nitrogen Analyzer

Professionalism

Sundy continuously insists on independent innovation and attaches great importance to the acquisition and protection of intellectual property.

Member of "National Technical Committee on Coal Standardization Administration of China" (SAC/TC42).

Sundy has acquired 318 patents, among which 90 are invention patents.

Production Line	Meeting Room	R&D
Lab	Exhibition 2017	Public listed

Quality

ISO 9001 Quality Management System.

ISO 14001 Environmental Management System.

ISO 18001 Occupational Health and Safety Management System.

CE Certificate

SDCHN636

Carbon Hydrogen & Nitrogen Analyzer

Stackable auto loader, 36 samples per layer,
2 layers with 72 samples available.

Dimensions: 710mm*660mm*1045mm
Weight : 140kg

Application

Sundy SDCHN636 Carbon Hydrogen & Nitrogen Analyzer can be used to determine the carbon, hydrogen and nitrogen content in coal,coke,food,solid wastes,soil,fertilizer,etc in the fields of power plant,coal mine,metallurgy,petrochemical industry,steel factory environmental industry and so on.

Conformance to Standards

▶ ISO29541 Solid mineral fuels - Determination of total carbon, hydrogen and nitrogen content– Instrumental method.
▶ ISO 609 Solid mineral fuels — Determination of carbon and hydrogen — High temperature combustion method.
▶ ASTM D5373 Standard test methods for determination of carbon, hydrogen and nitrogen in analysis samples of coal and carbon in analysis samples of coal and coke.

Specification

Method	Carbon & Hydrogen: Infrared Absorption
	Nitrogen : Thermal Conductivity Detection
Measuring Range	Carbon(0.005%~100%) Hydrogen(0.01%~50%) Nitrogen(0.01%~50%)
Auto loader	36/72 Samples
Analysis Time	≤5min / sample
Sample Weight	75~105mg(100mg recommended)
Repeatability	Cad≤0.5% Had≤0.15% Nad ≤ 0.08%
Combustion-Supporting Gas	Oxygen Purity: ≥99.5% Gas Pressure: ≥1MPa
Driving Gas	Nitrogen/Dried Compressed Air Gas Pressure: ≥1MPa
Carrier Gas	Helium Purity: ≥99.99% Gas Pressure: ≥1MPa
Power Requirement	220V±10%，50/60Hz
Max. Power	4.5kW
Optional Models	SDCH636(Carbon & Hydrogen), SDC636(Carbon), SDH636(Hydrogen), SDN636(Nitrogen/Protein)

High Automation.

▶ Auto-loader with 36 positions(72 optional), samples can be added or replaced in the process of testing.

▶ Automatic sample introduction and testing, realize to work unattended.

Short and Reliable Gas Path.

▶ Adopted confluence board to integrated the gas path,low dead volume,short gas path and less water vapor residue,accurate and automatic flow control,gas path reliability improved.
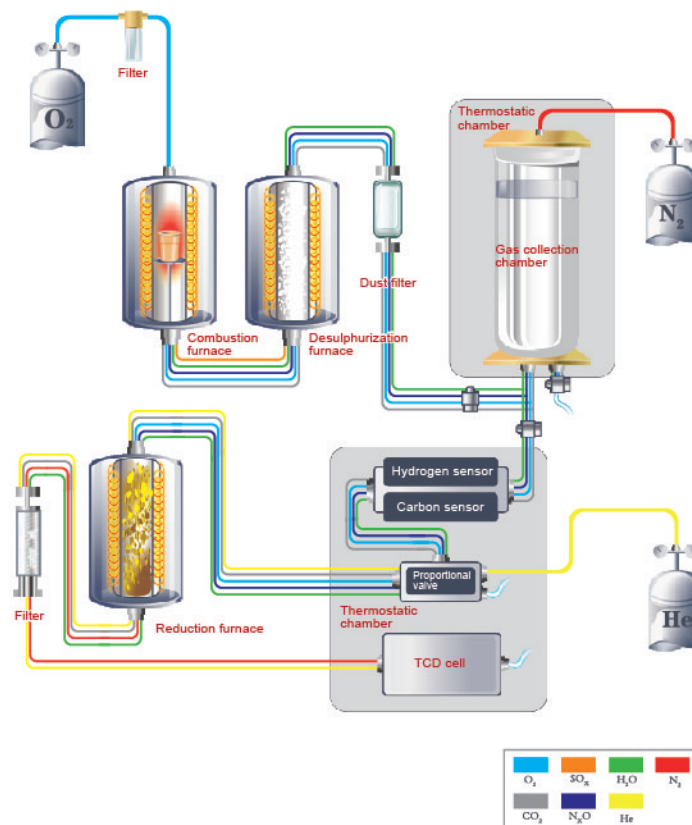
Humanized Design, Easy to Operate.

▶ Easy and convenient to check the air tightness, operators only need to click on the software.

▶ Replace the crucible from the top of the analyzer, easy to change the furnace reagent and disassemble the furnace body.

▶ Vertical structure, no countertop required, high-quality rollers and positioning device are used at the bottom, which is convenient for flexible movement or positioning.

High Precision.

▶ Sample introduction component adopted air curtain design,it can prevent the air into the furnace.and auxiliary by flow equalize unit,guarantee the sample combustion completed,avoid sample splashing when drop,ensure the test result is accurate.

▶ Adopted high-performance and precision IR sensor to testing the carbon and hydrogen element,and monitoring the combustion situation in real time,competently assess the combustion completion,shorten the test time and obtain a high precision test result.

▶ With high sensitivity and ultra low temperature drift diffusion type thermal conductivity cell,independent and accurate thermostatic control,ensure the thermal conductivity baseline stable.

Low Operation Cost.

▶ High stability IR sensor can get stability in short time,adopted throttling device,the helium consumption is only 0.7L/min during sample testing and 0.05L/min at other time.more efficiency than competitor and saving operation cost.

About us

Sundy, established in 1993, is a leading supplier of coal analysis total solutions in China. With 27 years development, Sundy provides products from individual mechanical samplers, sample preparation equipment & analysis instruments to fuel intelligent management systems, intelligent integrated sampling and sample preparation systems, intelligent dust extraction systems. Product application covers from coal production, coal consuming to coal trading, coal inspection and research, from the industries of power plant, coal, metallurgy and chemical, to the industries of building material, inspection and scientific research.

With the commitment of "Honesty, Cooperation, Profession, Innovation" and extensive experience in R&D and manufacturing, Sundy has acquired over 42% of domestic market share, and products have been sold to over 50 countries in the world including USA, UK, Italy, Russia, Indonesia, Mongolia, Rwanda, South Africa, Laos, Turkey, Greece, Thailand, Vietnam, Middle East, Brazil, etc.