

CSBox-Tube



Carbon & Sulfur Determinator



COAL
ROCKS
CEMENT
SOILS
FEED
BIOMASS
ORES
COKE
WASTES



The latest technology in the service of the Analysis

The easier and less expensive way to analyse C & S in Organic and in Inorganic

Modular: buy the CSBox, and/or the Combustion Kit, and/or the Tubular Furnace

Reliable Technology: Static Infrared Emitters and Static Infrared Detectors

Modern: fully controlled by USB, software ready for XP, XPe, Vista, W7(32), W7(64)

Perennial and International :

*You can opt for a local Computer Provider, a local Balance Manufacturer or even,
a local Manufacturer of Tubular Furnace .*

10 Kg + (3.6 kW- 27Kg)



CSbox connected with a Common tubular furnace, using the Combkit-L



A very intuitive powerfull setup, with 8 analysis Channels



A Combustion Kit, allows the CSBox Unit to use a standard tubular furnace for the sample combustion

MEASURING RANGE

C: 0.005 to 100 % using 1g to 40mg Sample

S: 0.005 to 100 % using 1g to 40mg Sample

ACCURACY: +1% relative (most samples)

SENSITIVITY: 1 ppm

ANALYSIS TIME: 120 sec to 3 mn typical

SAMPLE WEIGHT: 20 to 2000 mg

Combustion method: 1500/1340°C tube Furnace

Detection method: Infrared

GAS: Oxygen 1 bar- 4 liters/analyse



Also widely used in Cement Plants for Sulfur in Coal, Gypsum, Cement ... and Total Carbon in various inorganic

RUNNING PRINCIPES

A rough sample of the analyzed product (from 10 mg up to 200 mg) is burnt thanks to an oxygen flow or natural air flow with or without tin encapsulation in a tubular furnace (between 1300°C and 1500°C).

The combustion gases are freed from dust and dehydrated through moisture absorbers. The gas flow is regulated in real time and the gas is pushed under pressure in the measuring chamber of a IR cell equipped with an interferential filter whose radiation wave band is adapted to the measured element (CO₂, SO₂...). The signal is processed, integrated and divided into the initial mass of the product in order to measure the percentage of SULFUR and CARBON.



Large boat Loader on Combkit-L



Coal for Sulfur Determination

SYSTEM OVERVIEW

Samples are accurately weighed on the interfaced electronic balance. The operator can choose between the following included protocols: Sartorius, Adam, Ohaus, Mettler or a manual entry. The sample weight is automatically transferred into the stack area of the memory. The analysis time depends of analyzed Sample (generally between 120 to 360 seconds). The computer is driving the CSbox through a USB port, the software, delivered on a CD, is running under Windows XP, W7, you can use a dedicated computer or your laptop.

	Analyzer CSbox	Furnace	Combustion Kit
Ref:	CSbox-S or CSbox-C or CSbox-CS	TSH15/180	CombKit-L for Large Combustion Boats
Height	200 mm	500 mm	
Width	360 mm	325 mm	
Depth	360 mm	500 mm	CombKit-S for Small Combustion Boats
Weight	10 kg	27 kg	
Voltage	180-240 Vac 1phase	180-240V 1 phase	
Amps	0.75A	16A	

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