

CS-910

High-frequency Infrared Carbon and Sulfur Analyzer



Overview:

CS-910 Carbon Sulphur Analyzer with high frequency furnace and infrared detection is the ideal instrument for rapid and precise carbon and sulfur analysis in solids, especially with metallic materials but as well with other inorganic materials like ceramics, ores, cement, clays etc. The solid sample is combusted in a ceramic crucible within a sealed high-frequency furnace which is pressurized by a flow of pure oxygen. In order to achieve optimum combustion, the power of the High Frequency furnace is adjustable. The resulting reaction gases CO₂ and SO₂ are measured by solid-state IR detectors. The system is characterized by its high analytical speed, precision and sensitivity combined with ease of use and almost maintenance free operation.



Applications:

CS-910 High-frequency Infrared Carbon and Sulfur Analyzer analysis in solids, especially with metallic materials but as well with other inorganic materials like ceramics, ores, cement, clays etc.

Features:

1. Simultaneous carbon and sulfur determination with minimal sample preparation
2. Easy to use software – we've kept it simple so you can focus on analysis
3. Latest Infrared Technology – We use advanced optics – no more gold reflection tube issues
4. Reliable electronics and hardware – easily find faults or blockages common to carbon and sulfur machines
5. Precise and quick measurement
6. Wide range of inorganic materials can be analyzed
7. Low maintenance.
8. Robust design allows usage in production control and laboratory
9. Auto Cleaner : Fully automatic cleaning system with noiseless and vacuum-free dust removal: no routine maintenance, vacuum free dust removal into the crucible



Specifications:

Measured elements	Carbon(C) 0.0001%-15.0000% Sulfur (S) 0.0001%-5.0000%
Samples	inorganic
Electronic balance	Weighing range: 0-100g (resolution 0.0001g),
Furnace alignment	Vertical
Sample carrier	ceramic crucibles
Field of application	construction materials, engineering / electronics, geology / mining, glass / ceramics, steel / metallurgy
Furnace	High frequency furnace, 3.5KVA 20MHz
Detection method	solid state infrared absorption
Typical analysis time	26 - 60 s, Average: 35 s
Gas required	Industry Oxygen 99.2 %
Power requirements	AC220 V, $\pm 5\%$ 50Hz $\pm 2\%$
Dimensions (W x H x D)	54 x 81 x 60 cm
Weight	80kg
Required equipment	Electronic balance, monitor, PC
Operating temperature	0-30 °C RH:<75%
Optional accessories	Printer, PC



ISO9001-2000



11952 Lindblade St. Culver City, CA. 90249, Tel & Fax: (310) 736-1901
E-mail: info@physicaltestsolutions.com www.physicaltestsolutions.com