



Organic Elemental Analyzer CHNS-O 3628i



EPC / PRODUCTS / APPLICATION / SOFTWARE / ACCESSORIES / CONSUMABLES / SERVICES

Analytical Technologies Limited

An ISO 9001 Certified Company

www.analyticalgroup.net



CHNS-O 3628i is a C-H-N-S-O Elemental Analyzer Model based on the Dumas combustion method.

CHNS-O 3628i is a state-of-the-art system for the elemental analysis based on sample combustion and separation of gases with a chromatographic column.

The combustion products, i.e. CO2, H2O, N2 and SO2, are separated and quantified by a high resolution TCD detector.

CHNS-O 3628i is fully automatic, from the available samplers to the oxygen dosage, from the monitoring of consumables status to the automatic leak test.

>> CHNS-O 3628i is composed by:

- √ Dual furnace combustion system (for a better combustion and optimization of catalysts)
- √ Customized GC column
- √ Detection system
- √ Data acquisition and handling

Several configurations may be set for the determination of the target element.

Typical configurations are for CHNS, CHN, CN, CNS and O analysis.

The versatility of CHNS-O 3628i can be expressed into terms of sample type and size: actually a wide range of samples - liquids or solids, into various sizes, from micrograms to grams of organic materials - can be analyzed.

Three different samplers are available and various types of reactors ensure an optimized application.

Automatisms make it particularly user-friendly: the automatic oxygen dosage system allows a better consumption of oxygen and consumable status monitoring function optimizes the catalysts use.

An exclusively designed TCD -Thermal Conductivity Detector- is self-calibrating so that no reference gas is required.

The CHNS-O 3628i is particularly suitable for linking to other units for determination of the isotopic ratios of stable isotopes into elements.



>> FEATURES AND BENEFITS

- Fully automated analysis system
- · High sensitivity, accuracy and precision
- Flexibility and versatility of applications
- · Detector does not require reference gas
- Powerful software for viewing results from a computer
- Touch-screen display for an easy settings management
- · Consumables status monitoring for an optimization of catalysts usage
- Three types of samplers available :electronic / pneumatic / manual.
- · Easy connection to Mass Spectrometers and other detectors for stable isotopes analysis
- Low operation and management costs
- Safety Quick-Fit
- Standby Mode

>> Analytical And Technical Features

CHNS-O 3628i Features		
Туре	CHNS-O	5 min
Analysis Time	CN	8 min
	CHN	10/25 min.
	CHNS	4 min
Analytical Range	С	0.002-20 mg
	Н	0.002-5 mg
	N	0.002-20 mg
	S	0.002-6 mg
	0	0.002-2 mg
Accuracy*	<0,2% (certified standard; purity >99.9%)	
Precision*	<0,1% (certified standard; purity >99.9%)	
Sampler	Pneumatic	
	autosampler	147 positions
	Electronic	
	autosampler	32, 50 100 positions
	Manual sampler	



Physical Specifications	
Dimensions	81x50x37cm
Weight	68kg
Power Supply	230V, 50/60Hz
Power Absorption	5A, 1100W.
Gas Requirements	Helium (99.999% purity), 3-5bars
	Oxygen (99.999% purity), 3-5bars
	Air (oil free compressed air)`

Analytical Conditions		
Gas Carrier	Helium	
Leak Test	Automatic	
Furnace Temperature	Left Furnace : max 1100°C	
	Right Furnace : max 1100°C	
Oven Temperature	Max. 110°C	
Oxygen volume need	Automatically calculated by the oxygen doser	
Flow Rate	Electronic Flow Rate	
Gas Separation	0.8-4 m GC Column	
Detector	High Sensitivity TCD	
Software Data analysis	EAS Clarity	
Calibrations	Linear, Quadratic, Cubic	
Active Calibration	As Needed	

Sample		
Sample Size	0,1-500mg (depending on sample nature)	
	up to 1 g for soil samples	
Sample Type	Liquid	
	Solid	
Capsule	High purity tin and/or silver capsules	

Accessories	
Kit	
Microbalance	
Consumables	Proprietary Analytical Technologies Limited
Technical assistance	by phone call or email within 24 hours



>> Servicing, Validation, Trainings and Preventive Maintenance:

Servicing : We have team of service engineers who can attend to any make of instrument

promptly @the most affordable cost.

Trainings :We also take up preventive maintenance to reduce downtime of instrument's

Trainings.

: We offer user training both in-House and at customer sites on instrument principles, AMC's/CMC

operations, troubleshooting.

We have protocols for carrying out periodic Validations as per GLP/ GMP/USFDA **Validations**

norms.

Instruments : We offer instruments/Renting Services Modules like pumps, detector etc. on Rent.

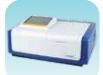




About Analytical Technologies

Technologies synonymous for offering technologies Analytical is for doing analysis and is the Fastest Growing Global Brand having presence in at least 96 countries across the globe. Analytical Technologies Limited is an ISO:9001 Certified Company engaged in Designing, Manufaturing, Marketing & providing Services for the Analytical, Chromatography, Spectroscopy, Bio Clinical Diagnostics, Material Science & General Laboratory Bio Medical, Instrumentation. Analytical Technologies, India has across the Country operations with at least 4 Regional Offices, 6 Branch Offices & Service Centers, Distributors & Channel partners worldwide.

Our Products & Technologies













UV/VIS Spectro 2080+ **Double Beam**

Infra FTIR

Optima Gas Chromatograph 3007

Optima Gas Chromatograph 2979 Plus

Flash Chromatograph

Atomic Absorption Spectrophotometer

Liquid Partical Counter













Optical Emission Spectrophotometer

DSC/TGA

Semi Auto Bio Chemistry Analyzer

HEMA 2062 Hematology Analyzer

Micro Plate Reader/Washer

URINOVA 2800 Urine Analyzer

Total Organic Carbon 3800











Fully Automated CLIA

NOVA-2100 **Chemistry Analyzer**

PCR/Gradient PCR/ RTPCR

TOC Analyzer

Laser Particle Size Analyzer

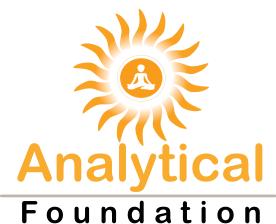
Ion Chromatograph Water purification system

Regulatory compliances





Corporate Social Responsibility



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- 2. Improving quality of life by offering YOGA Training courses, Work shops / Seminars etc.
- 3. ANALYTICAL FOUNDATION aims to DETOXIFY human minds, souls and body by means of Yoga, Meditation, Ayurveda, Health Care, Awards, Media, Events, Camps etc.

>> Reach us @





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