

Atomic Absorption Spectrometer

AAS-DB3060



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

Analytical Technologies Limited

An ISO 9001 Certified Company

www.analyticalgroup.net

►► CHARACTERISTICS

1. Completely controlled by PC, can flexibly select the flame and graphite furnace atomizer (optional).
2. Integrated floated optical platform design can obviously improve the optical system shock resistance and keep stable though use the optical signal for a long term.
3. Eight light stands can be changed automatically and preheat the eight lights meantime as well as optimize the working condition of the hollow cathode lamp.
4. Position adjusting: the best height of the flame burner and can automatically set the front and rear positions.
5. Fully automated wavelength scanning and peak searching.
6. Complete safety chains protection equipment: the function of warning and automatic safety protection towards the wrong burner, leakage of the gas, under voltage of air and the abnormal flameout.
7. Deuterium lamp and self-absorption background regulation.
8. Data processing: super strong database, possesses more than 500 data self-storage and cut-off storage function, can store the analyzed result with the form of EXCEL and the testing method and the result can be randomly called.
9. Measuring method: flame absorption method and emission method.
10. Result printing: parameter printing, data result printing and diagram printing.

►► COMPLETE AUTOMATIC CONTROLLING SYSTEM

With the help of the software, the following can be easily achieved

1. Selection of the element lamp
2. Up-down-front-rear adjustment of the lifter
3. Adjustment of the optical energy
4. Selection of the slit
5. Determination of wavelength scanning and peak searching
6. Selection of the atomizer
7. Setting of the background deduction method
8. Controlling of the gas flow
9. Automatic flaming and flaming out
10. Setting of the graphite furnace testing method

►► ADVANCED GRAPHITE FURNACE TEMPERATURE CONTROLLING TECHNOLOGY

1. The bringing in of PID technology can effectively overcome the influence on the temperature rising process caused by the voltage fluctuation and the resistance change to make more accurate controlling process. The combination of the 3ms/time fast sampling technique can make more accurate and reliable testing data
2. The fast heating capacity can improve the flexibility of the elements further
3. Use the ordinary power source of 220V without need of dynamic power of 380V
4. The maximum procedure heating capacity setting of 20 levels can make a more convenient and easier test of different samples
5. Three grades adjustable gas flow can accustom to more application needs
6. Can timely alarm when the gas and water is stopped and insufficient gas and water, can avoid the equipment damage and measuring error

►► SAFE, RELIABLE AND CONVENIENT FLAME SYSTEM

1. EPC can control the flow of Acetylene (C₂H₂) more accurately and it is a kind of system which also can operate easily
2. Efficient automatic system enables a higher sensitivity
3. The whole operation system has a high security as the fire safety system can alarm whenever

he electrici- ty is cut off, abnormal flame occurs, a lack of pressure happens or the burner does not match well. And it will automatically turn off the gas, prohibit temper ing. Thus it keeps the operation people and equipment from harm and damage.



▶▶ MULTI-FUNCTIONAL SOFTWARE WORKSTATION

1. A workstation that is supported WINDOWS XP/2000/NT
2. The rich menu brings great convenience to the use of customer
3. Convenient conversion between different menus makes the operation more easily
4. Various analytical correction methods provide the users more choices
5. Basic default parameter settings enable even the beginners can do the normal operation
6. Flexible storage, editing and printing methods give the user largest support

▶▶ SPECIFICATIONS

Wavelength range	190 – 900nm
Spectral bandwidth	0.1, 0.2, 0.4, 1.0 and 2.0nm
Accuracy of the wavelength	±0.15nm
Receptivity of the wavelength	≤0.04nm
Base line stability	≤0.002A/30min (Cu)
Characteristic viscosity	0.02µg/ml/1% (Cu)
Checking limit	0.004µg/ml (Cu)
Preciseness	0.5%
Grating	1800 lines/mm
Inflamer	All-metal titanium burner
Atomizer	Effective glass atomizer
Lamp stand	8
D2 background correction ability	When the background is 1 A, the back-ground ability should be deducted not less

	than 50 times; self absorption background deduction method
Size and weight	700mm×550mm×450mm 75Kg
Power source	220V±22V AC
FLAME SYSTEM	
Acetylene air burner	100mm
Ignition dynamic baseline drift	≤0.006A/30min
(Cu) Characteristic viscosity	≤0.025μg/ml/1%
Related standard deviation of the accuracy	≤0.5%(Cu, absorbance > 0.8A) (detection limit Cu ≤ 0.008μg/ml)
Safety system	1800 lines/mm
GRAPHITE FURNACE	
The highest temperature	3000°C
The largest temperature rising speed	≥2000°C/S
Characteristic quantity	Cd ≤ 0.5×10 ⁻¹² g Cu ≤ 0.5×10 ⁻¹¹ g
Accuracy	Cu ≤ 3% Cd ≤ 3%
Size and weight	550mm×450mm×300mm 65Kg
Safety system	Effective glass atomizer
Power source and power	220V±22V AC 7000W
STANDARD ACCESSORIES	
PC workstation	
HP inkjet printer	
Oil free Air compressor	
Acetylene reducing valve	
Cu Hollow cathode lamp	
Air filter	

▶▶ **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.
- AMC's/CMC : We offer user training both in-House and at customer sites on instrument principles, operations, troubleshooting.
- Validations : We have protocols for carrying out periodic Validations as per GLP/ GMP/USFDA norms.
- Instruments : We offer instruments/Renting Services Modules like pumps, detector etc. on Rent.



▶▶ **About Analytical Technologies**

Analytical Technologies is synonymous for offering technologies 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, Manufacturing, Marketing & providing Services for the Analytical, Chromatography, Spectroscopy, Bio Technology, Bio Medical, Clinical Diagnostics, Material Science & General Laboratory 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

Analytical Foundation is a Nonprofit Organization (NGO) found for the purpose of:



Analytical Foundation

1. Research & Innovation Scientist's awards / QC Professional Award : Quality life is possible by innovation only and the innovation is possible by research only, hence ANALYTICAL FOUNDATION is committed to identify such personalities for their contributions across various field of Science and Technology and awarding them yearly. To participate for award, send us your details of research / testing / publication at info@analyticalfoundation.org

2. Improving quality of life by offering YOGA Training courses, Work shops / Seminars etc.

3. ANALYTICAL FOUNDATION aims to DETOXYFY human minds, souls and body by means of Yoga, Meditation, Ayurveda, Health Care, Awards, Media, Events, Camps etc.

▶▶ Reach us @



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