

QUOTE

Jl. Duta Boulevard Barat Ruko Duta Harapan Blok D.37A Kota Bekasi 17123

Website: www.dgscientific.com Phone/Fax: [+62-21] 88985973, 88893164

Email: info@dgscientific.com

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Currency	IDR

REV. #00

CUSTOMER

Kepada Yth.

Ibu Marzety

Prepared by:

Nuke Deby Hastine nuke.deby@dgscientific.com

Laboratorium Pengujian Perumda Air Minum Kota Padang Mobile: 081286609780 Description **Unit Price** Qty Amount No 1 **Atomic Absorption Spectrometer (AAS)** Model: GBC Complete Package XplorAA + HG3000 Automatic Hydride Generator + SYSTEM 5000 GRAPHITE FURNACE + PAL3000 AUTOSAMPLER GBC Scientific Equipment, Pty.Ltd 1.319.000.000 1.319.000.000 XplorAA Double Beam Atomic Absorption Spectrometer with 6 lamp turret, flame emission capability, background correction and automatic gas control module. Asymmetric modulation with 2:1 sample reference ratio for noise reduction. All-reflective optics for constant focus, quartz overcoating on mirrors. Comes with airacetylene burner and software. Specification: **Atomization System** 1. Flame system 2. Graphite furnace system 3. Hydride generator Optical Spectrometer 1. Double Beam 2. Assymetric modulation 2:1 of sample and sample reference ratio for noise reduction. 3. All-reflective optics for constant focus, quartz overcoating on mirrors. **Monochromator** 1. Ebert-Fastie design with 333 mm focal length, self-calibrating. 1800 lines/mm holographic grating with dual-blazed profile and 1.6 linear reciprocal dispersion 2. Wavelength range: 175 - 900 nm 3 Slit widths: 0.1 - 2.0 nm in 0.1 nm increments (Choice of 20 step slit widths) **Background Correction**

	HYPER-PULSE background correction. The intensity deuterium arc lamp		
	provides a 175 - 423 correction range. The GBC Hyper pulse system		
	measures 200 (50 Hz) or 240 (60 Hz) sample measurements per second. The background correction range is up to 2.5 total absorbance		
	g		
	Lamp and Turret		
	6 lamp turret capacity automatic rotation and lamp selection		
	Flame Atomization System Promite design with called input polymory mixing about her. All titonium burner		
	Premix design with solid inert polymer mixing chamber. All-titanium burner construction. The optional nitrous oxide burner is designed to reduce carbon		
	build up. Nebuliser has platinum-iridium capillary and titanium venturi for resistance to acis attack. Adjustable sample uptake rate with locking		
	mechanism. Inert impact bead. Interlocked nebuliser bung and pressure relief		
	bung. Integrated liquid trap with liquid level interlock. Quick change mounting to enable easy changeover to graphite furnace. The optional nitrous oxide burner is		
	designed to reduce carbon build up.		
	Coo Boy System		
	Gas Box System Fully programmable. Automatic setting of flame type and gas flows from stored		
	conditions. Programmed ignition and shutdowns sequence. Automatic change of		
	flame conditions during automatic multi-element operation. May be programmed to automatically extinguish the flame at the end of an analysis. Interlocks monitor		
	air, acetylene and nitrous oxide pressure, burner presence, burner type, liquid		
	trap level, presence of nebulizer and pressure relief bung, oxidant flow, flame condition and mains power. Ignition is prevented or flame is shutdown if a fault is		
	detected. Screen display of interlock status.		
	Safety System (Interlock System)		
	In Ignition of flame is prevented if no burner is installed The flame will not always a state of the content burner at the content burner and the content burner at the		
	2. The flame will not change over to nitrous oxide flame if the correct burner not installed		
	3. Pressure sensors on the air, acetylene and nitrous oxide gas supplies		
	continually monitor pressure 4. A flame sensor shuts off the gases if flame is extinguished for any reason		
	5. An integral liquid trap6. Sensors on the both the nebulizer bung and pressure relief bung ensure are		
	correctly place		
	7. A main power sensor shuts down the flame if the power supplied instrument interrupted		
	Performance Sensitivity Guarantee		
	>0.8 abs for 5mg/L copper solution with an RSD of less than 0.45% on the		
	same measurement		
	Software		
	Microsoft Windows® operating system for true multitasking. Easy to use, rapid		
	method development, complete instrumen diagnostics, quality control or good laboratory practice. The Electronics Records and Electronic Signatures Rule (21		
	CFR Part 11) was established by the USA FDA.		
) .	SYSTEM5000 Graphite Furnace : AUTOMATED graphite furnace system for	1	
	analysis where parts per billion (ppb) detection limit is required. Include power supply unit and workhead		
	cappy and and workload		
	de.		
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	Specification:			
	Temperature Program			
	up to 3000°C			
	Performance Sensitivity			
	< 3 pg for 10 ppb Cu solution with an RSD < 5% Linearity better than 0.98			
	Graphite Tube			
	up to 300 firings			
C.	PAL3000 Autosampler: AUTO SAMPLER for rapid and accurate analysis		1	
	Autocomplex			
	Autosampler DDOCRAMARI E ALITO SAMRI ER accommodatos un to 40 camples, 10 pro			
	PROGRAMABLE AUTO SAMPLER accommodates up to 40 samples, 10 pre- mixed standard and one stock solution for automatic mixing up to 10 standard. All PTFE capillary. Probe set-up controlled by computer with co-ordinates stored in memory. Program include automatic mixing of standard, automatic injection, multiple injection, heated injection			
d.	Electronic Sample Viewing (ESV) Camera			
	To ensure the sample ijection process into the graphite furnace		1	
b.	HG3000 Automatic Hydride Generator : Hydride Generator to perform analysis of As, Se, Sb, Bi, Te, Sn, Ge, Pb and Hg at part per billion (ppb) concentration		1	
	Specification:			
	Working System			
	AUTOMATIC continuous flow operation of peristaltic pump, mixing and hydride formation separation. Typically sample throughput is 60 samples/hr, measuring 3x replicates on each sample.			

Control System Operation is fully automatic with a computer controlled spectrometer system Absorption Cell		
Absorption Cell		
Material Quartz (kuarsa)		
<u>Carrier Gas</u>		
Argon		
Complement Local Item Included :		
New Hollow Cathode Single Element Lamp	6	
2. Open Cell Hydride	1	
3. Closed Cell Hydride	1	
4. Acetylene Gas Cylinder & Regulator	1	
5. Nitrous Oxide Gas Cylinder & Regulator	1	
6. Titanium Burner for Nitrous Oxide Gas	1	
7. Graphite Tube (1 pack : 10 pcs)	1	
8. Argon Gas Cylinder & Regulator	1	
9. Standard Solution	6	
10. Compressed air : Oil free	1	
11. UPS 12 kVa (integrated stabilizer)	1	
12. Reductant NaBH₄	1	
13. Reductant SnCl₂	1	
14. Installation Tubing Kit up to 10 m and gas filter	1	
15. Installation Fume extraction system : Ducting, Hood and Fan Blower	1	
16. Desktop PC	1	
17. Printer	1	
18. IT Trafo	1	
1 years warranty for main unit and part except consumable part		

TERMS AND CONDITIONS Total Price 1.319.000.000

1. Price is include Tax (PPN), for e-catalog. FRANCO JABODETABEK

2. Payment : DP 50%, full payment before delivery3. Delivery : Indent 4 - 12 weeks after PO received

4. Warranty : - 1 year for main unit and part except consumable part

- Including Installation and training

- Available Additional Contract Services 1 year after

If you have any questions about this price quote, please don't hesitate to contact us

Thank You For Your Business!

GBC Scientific Equipment Authorized Distributor



Manufacturer of world class scientific equipment and accessories AAS, HPLC, ICP-OES, ICP-oTOFMS, Rheometry, UV-Vis and XRD since 1978.













