

ATOMIC ABSORPTION SPECTROPHOTOMETER - SYS-816



We present a wide range of Quality Equipments required in day-to-day function of a Chemical Laboratory to Advanced Instruments used for Quality Assurance/Control and Research. Our Atomic Absorption Spectrophotometer offers a State-of-the-art technology bundled with many features as a complete economic package.

- Advance technology for intelligent stray light measure and correction
- Original Optical Noise Reduction & Automatic measurement and stray light dynamic detected without any reference materials and incremental cost. It improves instrument's optical performance, optical precision, linear range and background correction effectively
- Develop internal lamp control technology. It makes normal hollow cathode lamps self-absorption background correction possible without and influence to instrument's stability. Meanwhile it will prolong working life of the lamps. Normal hollow cathode lamps are highly economical than special lamps
- Original "Hg lamp-regent" gradient measurement. we established an exact mathematical model to estimate "single beam linear and balance" specification. This technology provided a fast and economic method for instrument self testing system. It also established a brand new method to improve instrument's detection Performance.
- Numerous technological innovation and renewal such as design aesthetics, element lamp multi-dimensional automatic adjustment system, gas path electronics functional and modular design, No-adjustment D-lamp holder and so on.

OPTIONS:

- Graphite Furnace
- Auto-Sampler for Graphite Furnace
- Hydride Generator
- Wide range of Hollow-Cathode Lamps(Single/Multi Element)available on request

Technical Specifications		
Optical System	Instrument Type	Single Beam Reflection Achromatic Optics System
	Monochromator	Aberration Corrected Czerny-Turner
	Dispersion elements	Grating system 1200 line/mm characterization area 40mm ² Scintillation wavelength 250nm
	Bandwidth	0.1,0.2,0.4,1nm(4 step auto switching)
	WL Range	190-900
	WL Accuracy	±0.2
	WL Repeatability	±0.1 nm max
	Resolution	Min 3 lines (279.5 & 279.8 peak and Valley)
	HCL housing	Standard 4 lamp turret . (1 for measurement , 3 in warm-up mode) Option :- 6 Lamp / 8 Lamp Turret .
	Gas control	Automatic control & optimization (flow/pressure)
	Safety measures	Gas Leak check, prevention of gas release when flame dies out, prevention of flashback through pressure monitoring.
Photometric properties	Measurement	Aberration-corrected Czerny-Turner mounting
	Photometric Range	0-125%, -0.1-3.00A
	Static Baseline Drift	(Cu) +-0.003A/30min
	Dynamic Baseline Drift	(Cu) +-0.006A/30min
	Background Correction	High speed self-reversal (BGC-SR) method: High speed D2 lamp method (BGC-D2)
Atomization System		
Flame	Characteristic Concentration	(Cu) 0.025 µg/ml max
	Detection limit	(Cu) 0.004 µg/ml max
	Precision	RDS =0.5%
	Burner	Air cooled Titanium
	Nebulizer	High-efficient Nebulizer
	Spray chamber	Anticorrosion material
	Safety measures	Flame fuel gas, power assisted gas abnormal pressure protection

Data Process	Test Manner	Flame , flame emission .
	Concentration	standard curve, standard addition, interpolation
	Times of repetitive	Measurement 1-30 times, Average Value of A&C
	Report Print	parameters, date result
Other	Dimension & Weight (Flame)	700×420×550 mm; 103 kg(approx.)
	Power (Main unit with(Flame)	AC 220 V ±10%, 50 Hz without sharp fluctuations.
	Working Temperature range	10～30°C
	Working Humidity range	40%～85%

Marketed & Serviced by;
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