

ATOMIC ABSORPTION SPECTROPHOTOMETER



REF-3000AA is a new generation Atomic Absorption Spectrophotometer is intelligent universal instrument. Its performance is very stable, microprocessor-based instrument; completely controlled by the PC, can be equipped with safe and convenient flame system, as well as the convenient functions provided by the workstation, to meet your needs of pursuing the precise determination results.

Our AAS is widely used in Soil Testing, Water Testing, Fertilizer, Agriculture, Metallurgy, Geology and Environmental Protection, Food, Chemical, Agriculture, Forestry another sectors of materials analysis and quality control departments for micro-nutrients and trace metals (semi-metal) elemental analysis. It is a powerful instrument for routine analysis in analytical laboratories.

TECHNICAL FEATURES:

- High precision automatic optical path system, 1800 lines/mm Grating.
- Automatic switching spectral bandwidth of 0.1, 0.2, 0.4, 0.7, 1.0 & 2.0 nm.
- Four-lamp holder Turret can install 4 hollow cathode lamps at the same time. (Multi-lamp preheating); 6 & 8 lamps holder turret are available optional.
- Efficient atomizer has high sensitivity, high reproducibility guarantee.
- High-quality PMT-Photomultiplier Tubes detector and advanced integrated circuits, and efficient atomizer, low noise and good accuracy.
- Instrument has Automatic Flame ignition control through software Operation.
- It has more safe control and safety protection of abnormal conditions, such as insufficient Pressure, Air leakage, Flameout, etc.
- Simple lifting platform structure makes user adjustment more convenient.
- Additionally featured working software for hydride generator method.
- The software adds method storage function; the user can recall the standard curve after storage, which can save analysis time.

ATOMIC ABSORPTION SPECTROPHOTOMETER

Model: REF-3000AA

TECHNICAL SPECIFICATION:	
Optical System:	High Precision Single beam Optical System
Wavelength Range:	190 ~ 900nm
Turret Holder:	4-Lamps Turret Holder with automatic switching lamp (6-Lamps & 8-Lamps Turret Holder Optional)
Wavelength Repeatability:	±0.1nm
Wavelength Accuracy:	±0.2nm
Absorbance Range:	0 ~ 2.5ABS
Spectral Bandwidth:	0.1, 0.2, 0.4, 0.7, 1.0 and 2.0 nm (6-Steps Auto Switching)
Static Baseline Drift:	≤0.002ABS/30min(Cu)
Diffraction Grating:	1800 lines/mm , Czerny-Turner Monochromator
Measurement Modes:	ABS,%T,C
Photometric Range:	0 ~ 100%T, 0 ~ 3A
Baseline Stability:	≤0.003ABS/30min(Cu)
Precision RSD:	≤0.5%; (Cu, absorbance >0.8ABS)
Characteristic Conc.:	≤0.025µg/ml/1%(Cu)
Detection Limit:	≤0.006ug/ml (Cu)
Background Correction:	D ₂ background subtraction mode Background signal 1ABS, background subtraction ≥ 50 times. Self-absorption background subtraction method
Measurement Method:	Air -Acetylene Flame analysis method
Burner:	Air-acetylene flame burner 100mm Titanium alloy
Nebulizer:	High Efficiency
Sprayer:	Anti-Corrosion high efficiency glass atomizer
Spray Chamber:	Anti-corrosion plastic spray chamber
Gas Control:	Manual control & optimization (Flow/Pressure)
Flame Ignition:	Auto/Manual Electric Flame Ignition
Safety System:	Automatically cut off gas when there is insufficient pressure, power interruption, abnormal flameout, and mismatched combustion head
Software Data Processing:	Concentration: Standard Curve, Standard Addition, Auto fitting Repetitive Measurement: 1 - 30 times, average value of A & C Report Print: Parameters, Data result
Communication Interface:	RS232, USB2.0
Operating Environment:	Temperature: 10°C-45°C , Humidity: ≤75%RH
Power Supply:	AC220V, 50/60Hz
Weight:	Approx. 70kg
Size (L*W*H*) Mm:	700*550*530(mm)
Scope of Supply:	<ol style="list-style-type: none"> 1. Atomic Absorption Spectrophotometer- AAS Main Instrument 2. 100 mm Titanium Alloy Burner with mounting assembly 3. Glass Atomizer with aspiration tubes 4. Operating Software CD, Data Cable RS232 & Power cord 5. Accessories for Fitting Ferrules & Tubing For Air-C₂H₂, Waste tube 6. Oil-Free Air Compressor (Optional) 7. HCL-Hollow Cathode Lamps (Optional) 8. Fume Hood, Acetylene Gas Cylinder & Pressure Regulator (Optional)