

ATOMIC ABSORPTION SPECTROMETER (BASIC TYPE)

GRAPHITE FURNACE
CAN BE CUSTOMIZED

LIQUID ANALYSIS

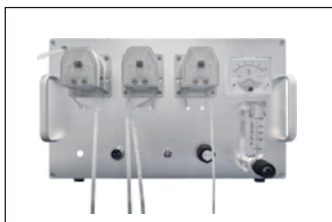


AAS-R304

- Widely used in metallurgy, mining, petroleum, light industry, agriculture, medicine, food and environmental monitoring, etc.
- Concentration analysis of major and microtrace element
- Equipped with intelligent software for rights management and audit trail
- Automatic setting of work lamp, warm-up lamp and analysis condition
- System with deuterium background deduction for complex sample
- The protection system can monitor flame, pressure and acetylene leakage in real time



Cu hollow cathode lamp (included)



hydride generator (optional)



flame auto-sampler (optional)

STANDARD DELIVERY

Main unit	1 pc
Computer	1 pc
Software	1 pc
Air compressor	1 pc
Cu hollow cathode lamp (AAS-R304-CU)	1 pc
Standard sample (AAS-R304-BY)	1 pc
Tool	1 set

OPTIONAL DELIVERY

Flame auto-sampler (100 positions)	AAS-R304-HAS
Hydride generator	AAS-R304-HDG
Hollow cathode lamp	AAS-R304-□□*

*□□ is analysis element, for example, code **AAS-R304-ZN** stands for the hollow cathode lamp used to analyze the element Zn

SPECIFICATION

Code	AAS-R304	AAS-R308
Lamp position	4 positions**	8 positions**
Static baseline drift (Cu)	±0.004A/30min	±0.003A/30min
Dynamic baseline drift (Cu)	±0.006A/15min	±0.005A/15min
Characteristic concentration (Cu)	≤0.04μg/mL	≤0.035μg/mL
Detection limit (Cu)	≤0.008μg/mL	≤0.006μg/mL
Background calibration	deuterium lamp ≥ 30 times (1Abs)	deuterium lamp ≥ 40 times (1Abs)
Repeatability	RSD≤1%	RSD≤0.6%
Wavelength error	0.3nm	0.2nm
Wavelength repeatability	≤0.1nm	
Wavelength range	185~900nm	
Display data	transmittance, absorbance, concentration	
Photometric range	0~125%, -0.1~3.00A	
Beam type	single beam	
Monochromator	C-T type, focal length 350mm	
Dispersive element	raster scribing 1800 lines/mm, scintillation wavelength	
Spectral bandwidth	six levels auto-matic switching (0.1, 0.2, 0.4, 0.7, 1.4, 2nm)	
Spectral bandwidth deviation	±0.02nm	
Natural gas	C ₂ H ₂ (≥99.9%)	
C ₂ H ₂ flow adjustment	automatic 12 levels	
Air flow adjustment	automatic 4 levels	
Burner	titanium metal burner (auto-matic lifting and lowering)	
Atomizer	glass atomizer	
Atomization chamber	corrosion resistant atomization chamber	
Safety measure	gas pressure protection	
Measurement method	flame method, hydride generation-atomic absorption method, flame emission method	
Concentration calculation	standard curve method, standard addition method, interpolation method	
Measurement data	mean values of absorbance and concentration, standard deviation and relative standard deviation data	
Work environment	10~30℃, 40~80%RH	
Power supply	AC 220V, 50 Hz	
Dimension (L×W×H)	830×650×560mm	
Weight	90kg	

**Only Cu hollow cathode lamp included and other element lamps need to be optioned

ANALYSIS ELEMENT

Regular element	Li	Na	K	Al	Ga	Ca	Mg	Sr	Ba	Mn	V	Mo	Rh
	Cu	Zn	Fe	Co	Ni	Cr	Zr	Au	Ag	Pt	Si	Ti	W
Special element***	As	Se	Sb	Bi	Sn	Pb	Te	Ge	Cd	Hg			

***Special element requires hydride generator AAS-R304-HDG