

# ATOMIC ABSORPTION SPECTROMETER (FLAME 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

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

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

## ANALYSIS ELEMENT

<b>Regular element</b>	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
<b>Special element***</b>	As	Se	Sb	Bi	Sn	Pb	Te	Ge	Cd	Hg			

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