# ATOMIC ABSORPTION SPECTROMETER (FLAME TYPE)

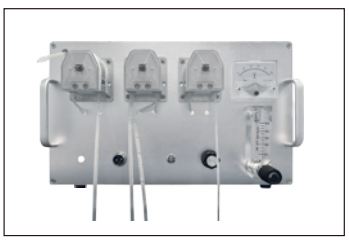
GRAPHITE FURNACE CAN BE CUSTOMIZED

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

| Code | AAS-R304 | AAS-R308 |
|---|---|---|
| Lamp position | 4 positions** | 8 positions** |
| Static baseline drift (Cu) | ±0.004A/15min | ±0.003A/15min |
| 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 | $C_2H_2$ (≥99.9%) | |
| $C_2H_2$ 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°C, 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**