

# AA-1800F Atomic Absorption Spectrophotometer

Three lamp flame method



## Working conditions

- Power requirements: 220V (+5% ~ -10%), 50/60 Hz; 5000VA
- Environment temperature: +15°C ~ +35°C
- relative humidity: 20 ~ 80%

## Technical indicators

- Grating: 1800 l/mm
- Wavelength range: 190-900nm
- Spectral bandwidth :0.1、0.2、0.4、1.0、2.0nm (automatic adjustable)
- Wavelength accuracy:  $\leq 0.15\text{nm}$  Wavelength repeatability:  $\pm 0.1\text{nm}$
- Baseline stability:  $\leq \pm 0.002\text{A}/30\text{ minutes}$  (static)  $\leq \pm 0.005\text{A}/30\text{ minutes}$  (dynamic)
- Light source:  $\leq 3$  lamps automatic turret, automatic alignment
- Power: double cathode power built-in high performance lamps

## Flame atomizer

- Characteristic concentration (Cu) :  $0.015\mu\text{g/mL}/1\%$ .
- Detection limits (Cu) :  $0.002\mu\text{g/mL}$
- Precision:  $\text{RSD} \leq 0.5\%$
- Combustion head: metal titanium combustion head
- Atomizer: efficient glass atomizer
- Atomizing chamber: explosion proof corrosion resistant material spray chamber
- Control system: automatic PC control three light brick, automatic alignment, automatic optimization and automatic ignition
- Safety protection: with automatic safety protection function, anti tempering automatic gas path protection, acetylene gas leakage alarm, automatic shutdown system, abnormal automatic power-off
- Background correction: deuterium background correction: correction of the 1A background

## Data processing

- Measurement methods: flame method, hydride method
- Concentration calculation method: standard curve method (1 ~ 3 times curve), automatic matching, the standard addition method
- Repetition survey frequency: 1-99 times, calculating the average value, standard deviation and relative standard deviations are given
- Results print: parameters print, data and graphics print, you can also export WORD, EXCEL document
- Simple and convenient operation, lamp position rotating, automatic ignition through software operating
- Communication interface: computer and USB interface communication