

AA320N Plus

Atomic Absorption Spectrophotometer



Main Features

Integrated flame and graphite furnace system with quick and easy switching between flame and graphite furnace atomizers.

The optical platform is integrally cast, featuring excellent anti-vibration performance and a more stable optical system, with minimal light loss and high sensitivity.

Equipped with a full-wavelength, high-resolution symmetric aberration-corrected Czerny-Turner monochromator for ultra-accurate wavelength positioning.



4-lamp automatic rotating turret with simultaneous preheating function to optimize operating conditions.

Built-in storage for over 500 sets of data with power-off memory; test methods and results can be retrieved at any time.

Standard configuration with a fully functional workstation software for user-friendly operation (audit trail function available as an option).

Advanced and precise graphite furnace temperature control technology, combined with a self-diagnostic and protective system for equipment faults.

Technical Specifications

- Monochromator Type: Czerny-Turner
- Grating: 1800 lines/mm
- Grating Blaze Wavelength: 250nm
- Wavelength Range: 190nm ~ 900nm
- Spectral Bandwidth: 0.1 nm, 0.2nm, 0.4nm, 0.7nm, 1.0nm, 2.0nm (automatic switching)
- Wavelength Indication Error: $\pm 0.30\text{nm}$
- Wavelength Repeatability: $\leq 0.15\text{nm}$
- Absorbance Range: -0.1 ~ 2.000A
- Dynamic Baseline Stability: $\leq 0.005\text{A}/30\text{min}$ (Cu spectral line)
- Characteristic Concentration: 0.02 $\mu\text{g}/\text{mL}$ / 1% (Cu element)
- Detection Limit: 0.006 $\mu\text{g}/\text{mL}$ (Cu element)



- Spectral Bandwidth Deviation: $\leq 0.2\text{nm} \pm 0.02\text{nm}$ (0.2nm bandwidth, Cu element)
- Measurement Repeatability: $\leq 0.7\%$ (flame method, Cu element)
- Lamp Holder: 4 positions
- Main Unit Dimensions: 700mm×630mm×530mm
- Net Weight: 80kg

Software

- Instrument self-test function
- Password setting function
- The method establishment module supports the configuration of instrument parameters, calibration curve and slope recalibration parameters, as well as flame atomizer parameters.

Optional Accessories

- GA3202 Plus Graphite Furnace System
- AS4020 Graphite Furnace Autosampler
- AS800 Cooling Water Circulator
- Hydride Generator
- Hollow Cathode Lamps for various elements

