

ATOMIC ABSORPTION SPECTROPHOTOMETER (FLAME MODEL)RIC-111



FEATURES:

- ✍ High cost-effective flame AAS
- ✍ Reasonable design, adopting the same key parts as in high end instruments, ensures basic functions but less automation to provide an economic model for users.
- ✍ Reliable integration of main unit with microprocessor
- ✍ Built-in microprocessor with necessary auto-control and data processing functions achieve high reliability of the instrument.
- ✍ Simple and easy operation
- ✍ Eye-catching digital display, multi-function data processing ability and fast function-key direct input realize easy and fast analysis.

SPECIFICATIONS:

Wavelength Range: 190-900nm, Wavelength Accuracy: ± 0.5 nm

Resolution: Two Spectral lines of Mn at 279.5nm and 279.8nm can be separated with the spectral bandwidth of 0.2nm and valley-peak energy ratio less than 30%

Baseline Stability: 0.005A/30min.

Background correction: The D2 lamp background correction capability at 1A is better than 30 times.

Light Source:

2 lamps are powered simultaneously (one preheating)

Lamp current adjustment range: 0~20mA

Lamp power supply mode: Powered by 400Hz Square pulse

Optical System:

Monochromator: Single beam, Czurney-turner design grating monochromator

Grating: 1800l/mm

Focal length: 277mm

Blazed wavelength: 250nm

Spectral bandwidth: 0.1nm, 0.2nm, 0.4nm, 1.2nm 4 steps

Adjustment: Manual adjustment for wavelength and slit

Flame Atomizer:

Burner: 10cm single slot all-titanium burner

Spray chamber: Corrosion resistant all-plastic spray chamber

Nebulizer: High efficiency glass nebulizer with metal sleeve, sucking up rate: 6-7mL/min

Position adjustment: Manual adjusting mechanism for vertical, horizontal positions and the rotation angle of the burner

Gas line protection: Fuel gas leakage alarm

Detection and Data Processing System:

Detector: R928 photomultiplier with high sensitivity and wide spectral range

Electronic and micro-computer system: Automatic adjustment of light source power. Light energy and negative high-voltage auto-balance

Display mode: LED display of energy and measurement values, concentration direct reading

Read mode: Transient, time average, peak height, peak area.

Integral time is selectable in the range of 0.1-19.9s.

Scale expansion: 0.1~99

Data processing mode: Automatic calculation of mean, standard deviation and relative standard deviation. Repeating number is in the range of 1-99

Measurement mode: Automatic curve fitting with 3~7 standards; Sensitivity auto-correction

Result printing: Measurement data, working curve, signal profile and analytical conditions can all be printed out.

Instrument self-check: Check current status of each function key

Characteristic Concentration and Detection Limit:

Air-C₂H₂ flame: Cu Characteristic concentration ≤ 0.025 mg/L, Detection Limit ≤ 0.006 mg/L

Function Expansion: Hydride vapor generator can be connected for hydride analysis.

Dimensions and weight: 1020 (L) X 490 (W) X 540 (H) mm, 80 Kg unpacked

RELIABLE INSTRUMENTS CO. (ISO 9001CO.)



Sales/Reg. Office: 301, 2nd Floor, Mittal Commercial Complex, N.I.T-5, Faridabad
Tel.: 91-129-4052611, 2410244, 6450611; Telefax: 91-129-2410219; M: 91-9818047375
Email: ricindfbid@gmail.com; ricind@rediffmail.com; ricind@yahoo.co.in;
Web: www.ricind.com