

Atomic Absorption

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Varian

New

SpectrAA 50 with sample introduction pump system



SpectrAA 50 and SpectrAA 55, Atomic Absorption Spectrometer

Varian's SpectrAA 50/55 series instruments are ideal for any laboratory requiring an entry level AA system with advanced capabilities. The single beam SpectrAA 50 and the true double beam SpectrAA 55 feature a Liquid Crystal Display and dedicated keyboard enabling simple, standalone operation.

Software features

- Simple to use interface enables fast easy operation
- Cookbook for easy set up of methods
- All results displayed on screen
- View and check calibration data to verify goodness of fit

Upgrade to PC control

Both systems can be easily upgraded from a standalone keyboard controlled system to full PC control.

Accessories

Sample Introduction Pump System (SIPS) for Varian AA instruments

The Sample Introduction Pump System (SIPS) is an innovative sample introduction and dilution system for flame AA. It eliminates the task of multiple standard preparation and provides fast, accurate on-line dilution of over-range samples. SIPS is available in 2 versions:

- The single pump SIPS 10
- The dual pump SIPS 20

SPS3 Autosampler

- Fastest ever Varian autosampler for spectroscopy

This autosampler is designed to meet the diverse requirements of high throughput analytical laboratories. It offers a range of productivity boosting features, which speed up analysis times

VGA-77 Vapour generation accessory

- High productivity

The VGA-77 is a continuous flow vapour generation system for the determination of Hg and the hydride-forming elements at $\mu\text{g/L}$ levels

GTA-110 Graphite Tube Atomiser

- Constant Temperature Zone

The GTA-110 features a Constant Temperature Zone (CTZ) design.

The GTA-110's CTZ design provides several benefits, including:

- Excellent detection limits, hence best possible performance
- Extended tube lifetimes, leading to lowest cost per sample
- Reduced memory effects, offering simplified analysis

For further details on the SpectrAA 50, SpectrAA 55 or other atomic absorption models in the Varian range please contact our Technical Office on 01342 826836.

New

SpectrAA 55 with GTA-110 graphic tube atomiser PC not supplied



New

SPS3 Autosampler



New

VGA-77 Vapour Generation Accessory





Hitachi

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Z-2000 Tandem Flame/Furnace AA Spectrophotometer

The new Z-2000 combines outstanding analytical capabilities with ease of use. Hitachi's well-proven DC polarised Zeeman background correction method now features two detectors for simultaneous measurement of the sample and reference beams. This leads to reduced noise and improved sensitivity. A built-in autosampler on the graphite side can accommodate 60x1.5ml samples and features variable injection speed and hot injection. A 96 well microplate sampler is available as an option.

- Ultra-low detection limits: 0.1ppb As using a conventional hollow cathode lamp
- New display facilities
- "Easy start" for flame analysis
- "Voice guidance" provides audible prompts to help analysis
- Simple software switch between flame and furnace modes

613-520

New



Specifications

Analytical method	Flame/graphite furnace
Measurement mode	Atomic absorption and flame photometry
Optics	Double beam method (polarised Zeeman)
Background correction	Polarised Zeeman method
Monochromator	
Diffraction grating	Czerny-Turner mount. 1800 lines/mm, Blazed at 200nm
Slit width, nm	0.2, 0.4, 1.3, 2.6 (4 steps)
Wavelength range, nm	190-900 with automatic spectral peak setting
Focal length, dispersion	400mm, 1.3nm/min
Light source	
No. Lamps	8 lamps (turret), 2 lamps simultaneously lit, automatically positioned
Flame Section	
Zeeman-effect magnet	0.9 Tesla permanent magnet
Burner	Pre-mix fish-tail type with pilot flame (auto ignition)
Safety monitoring	Optical flame monitoring, flame sensor error detection, fuel/auxiliary gas pressure monitoring, drain liquid monitoring, cooling water flow monitoring, flash-back shock absorption, safety fire extinguishing at power failure (buffer tank method), flow stop check at flame turn-off, prevention of restart at reconnection of power, N ₂ O select safety mechanism
Graphite furnace	
Zeeman-effect magnet	1.0 Tesla permanent magnet
Temperature control	50 to 2800°C overcurrent protection with optical temperature control
Safety monitoring control	Ar gas pressure monitoring, cooling flow monitoring, heating furnace temperature monitoring
Graphite autosampler	
Number of sample containers	60 pcs (1.5ml container) Optional 96 microplate
Modifier container	5 pcs (25ml container)
Sample injection volume	1 to 100µL
Sample injection reproducibility	RSD 1% or less (5 to 100µL)
Sample injection speed	Selectable in 5 steps
Applicable solvents	Aqueous solution, ethanol, methanol, acetone, MIBK
Carry over	10 ⁻⁵ or less (for standard aqueous solution sample)
Heating injection function	Yes
Number of nozzle washings	5 times
Sample condensation (in furnace)	1 to 25 times
Sample dilution (in furnace)	1 to 100 times
Data processing	
Signal measurement	Integration, peak height, peak area, peak width
Signal type	Zeeman AA, sample, reference and emission intensity
Calibration curve	Standard sample: up to 10 points, Calibration curve preparation: least squares method and Newton method, Approximation function: sensitivity correction function, standard addition method, sample standard addition method
Data processing	Calculation mode, peak width cut-off height specifiable, removal/restoration/replacement of measurement result, change of order number of calibration curve, sample blank processing, zero correction of calibration curve, baseline correction, statistical calculation (mean value, standard deviation, relative standard deviation, determination coefficient)
Quality Control function	Sample check (detection limit, reproducibility), STD check, quality control sample check, calibration curve check, recovery check, element, measurement check
Parameter/data saving/help function	Measurement result and measurement signal, instrument status/error information, instruction message for preventing errors, analytical information
Power	220/230/240 V, 50/60 Hz, 6 kVA
Dimensions (wxdxh), mm	1100x630x700
Weight, kg	189

Cat. No.	Description	Price
613-520	Z-2000 Tandem flame/furnace AA Spectrophotometer	POA