

HITACHI Polarized Zeeman Atomic

Model : Z-5700



Asset No	MAC0816	Description	Polarized Zeeman Atomic
Model	Z-5700	Maker	HITACHI

Company	Hitachi - Science & Technology
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Categories	Spectrometer (Atom.): AAS: General
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Excellent sensitivity
 The new optical system and the improved graphite furnace power supply circuit ensure high sensitivities. Using an ordinary hollow cathode lamp, the Z-5000 Series spectrophotometer is capable of analyzing As, Se and Sb in tap water and environmental water, which previously have only been measurable using an EDL high-intensity lamp in a conventional graphite furnace analyses.

Versatile multi-tasking functions available through friendly user interface.
 Powerful accuracy control functions are incorporated.

Windows(R)-compatible software is installed. Two atomic absorption applications can be run simultaneously, during measurement, an other analytical data processing can be carried out. In addition, a random-access autosampler function and other convenient functions can easily be used.

Calibration curve, sample check, standard check and other QC functions are provided to further significantly enhance data reliability.

The required installation space is reduced to approx. 70% of that for the conventional model, owing to the 3D arrangement of the optical system, compact design of the gas control unit and integration of the graphite power supply.

Model Z-5700 can be expanded to tandem type by installing an additional unit. The required space remains the same even after this additional installation.

Specifications	
Dimensions (w x d x h in cm)	
Weight (kg)	

Spectrometer	Czerny-Turner monochromator
Focal length/dispersion	400 mm, 1.3 nm/mm
Photometer	double-beam
Grating	1800 lines/mm, blazed at 200 nm
Wavelength range	190-900 nm, automated spectral peak setting
Bandpass	4 steps (0.2, 0.4, 1.3, 2.6 nm)
Detector	PMT R456
Background correction	Polarized Zeeman method, Furnace within magnetic field (1.0 Tesla permanent magnet)
Light source	8-Lamp turret, automated positioning
Power supplies	2 lamps simultaneously lit
Atomizer	Furnace:50-2800°C, optical temperature control, 4-steps purge gas control
Sample introduction	
Operating system and software	Windows
Computer	
Short term precision (RSD for 10 replicates)	
Long term precision (RSD for 4 hours)	
Sensitivity	
Detection limits (3s, µg/L)	
Accessories	Hydride generator, high pressure nebulizer, Ti-burner head, High-temperature burner
Special features	Model Z-5700 can be expanded to tandem type by installing an additional unit. The required space remains the same even after this additional installation.