

Sales Information

ZA3000 series Polarized Zeeman Atomic Absorption Spectrophotometer

SPECIFICATIONS

Model	ZA3000	ZA3300	ZA3700
Analytical method	Flame/Graphite furnace	Flame	Graphite furnace
Measurement mode	Atomic absorption and flame photometry		Atomic absorption analyses
Optics	Double-beam method (Polarized Zeeman method)		
Background correction	Polarized Zeeman method		
Monochromator	Czerny-Turner mount, 1800 Lines/mm, Blazed at 200 nm		
Mount/diffraction grating	190 to 900 nm, Automatic spectral peak setting		
Wavelength range, setting	400 mm, 1.3 nm/mm		
Focal length, reciprocal dispersion	4 steps (0.2, 0.4, 1.3, 2.6 nm)		
Slit width	Photomultiplier x2 pcs		
Detector			
Light source	8 Lamps (turret), 2 Lamps simultaneous lightning, 2.5 to 20 mA (average amperage)		
Number of lamps, turn-on current	Automatic position setting, fine adjustment function		
Lamp positioning			
Flame section	0.9 Tesla permanent magnet		
Zeeman-effect magnet	Pre-mix fish-tail type		
Burner	Pilot flame automatic ignition		
Ignition method	Automatic flowrate setting of combustion gas		
Burning condition setting	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 turnoff, prevention of restart at reconnection of power, N ₂ O select safety mechanism		
Safety monitoring function			
Graphite furnace section	1.0 Tesla permanent magnet		
Zeeman-effect magnet	50 to 2,800°C, overcurrent prevention Clean step of Pyrotube C HR or Pyrotube D HR 50 to 3,000°C,		50 to 2,800°C, overcurrent prevention Clean step of Pyrotube C HR or Pyrotube D HF 50 to 3,000°C,
Temperature control	Optical temperature control, constant current control		Optical temperature control, constant current control
Heating current control	Sheath gas: Ar gas, 3 L/min. Carrier gas: Ar gas 0, 10, 30, 200 mL/min.(4 steps)		Sheath gas: Ar gas, 3 L/min. Carrier gas: Ar gas 0, 10, 30, 200 mL/min.(4 steps)
Gas flowrate control	Automatic bumping detection, cuvette memory suppression functions.		automatic bumping detection, cuvette memory suppression functions.
Function	Ar gas pressure monitoring, cooling water flow monitoring, heating furnace temperature monitoring		Ar gas pressure monitoring, cooling water flow monitoring, heating furnace temperature monitoring
Safety monitoring control			

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