

MI-AAS-X Atomic Absorption Spectrometer (Flame & Graphite Furnance)



- ✓ The Atomic Absorption Spectrophotometer is fully PC controlled. It can be flexibly equipped with optional graphite furnace, auto sampler and hydride generator. Unique optical mechanical design, safe and convenient flame system, optional background correction technologies, as well as convenient functions provided by the workstation, suit your pursuit of automatic and precise test results.

Features

1. Excellent total reflection optical system ensures excellent signal-to-noise ratio of the instrument.
2. Comprehensive and safe intelligent gas control module.
3. Excellent full band deuterium lamp background correction technology and high-performance self absorption double background correction.
4. Fully automatic instrument control, light source supports high-performance element lamp, and can be completed quickly with one key.
5. Original lamp position eight lamp holder 360 degree rotation design.
6. Novel atomizer and intelligent elevator.
7. Simple, professional, automatic and fully operated RG WIN AAS workstation software under MS window system.

Specifications

Models		MI-AAS-S4	MI-AAS-S8	MI-AAS-D8	MI-AAS-D8+
Optical System		Single Beam			Double Beam
Monochromator		Czerny-Turner type, focal lengths at 350mm			
Grating		Holographic diffraction with 1800 lines/mm			
Wavelength Range		190-900 nm			
Slits		Automated slit selection 0.1, 0.2, 0.4, 0.7, 1.4, 2.0 nm			
Wavelength Repeatability		±0.1nm	±0.1 nm	±0.05 nm	±0.05 nm
Wavelength Accuracy		±0.3 nm	±0.2 nm	±0.15 nm	±0.15 nm
Lamp		Automated 4-lamp turret	Automated 8-lamp turret		
Reading Mode		T, A, C			
Photometric Range		0-125%, -0.1-3.00A			
Static Baseline Drift (Cu)		≤0.004A/30 min	≤0.003A/30 min	≤0.002A/30 min	≤0.002A/30 min
Dynamic Baseline Drift (Cu)		≤0.006A/15 min	≤0.005A/15 min	≤0.004A/15 min	≤0.004A/15 min
Background Correction		Deuterium (D2) Background Correction		Deuterium (D2) Background Correction and Self-absorption Background Correction	
Models		AA 7804	AA 7808	AA 7818	AA 7828
Flame	Characteristic Concentration	≤0.04ug/ml	≤0.035ug/ml	≤0.035ug/ml	≤0.035ug/ml
	Detection Limit (Cu)	≤0.008ug/ml	≤0.006ug/ml	≤0.004ug/ml	≤0.004ug/ml
	Repeatability (Cu)	RSD≤1%	RSD≤0.6%	RSD≤0.5%	RSD≤0.5%
	Acetylene Flow Control	Auto 12-Level			
	Air Assist Control	Auto 4-Level			
	Ignition Method	PC control			
	Detector	Wide range UV sensitive photomultiplier tube			
	Burner Head	Titanium 100mm burner for air/acetylene operation			
	Nebulizer	High efficiency glass nebulizer			
	Spray Chamber	Corrosion resistant material spray chamber			
Safety Protection	Automatically cut off gas in case of low pressure, power failure, flame out, or burner mismatched				
Graphite Furnace	Characteristic Amount	Cd≤1pg, Cu≤22pg	Cd≤0.8pg, Cu≤20pg	Cd≤0.8pg, Cu≤20pg	
	Detection Limit (Cu)	Cd≤1.5pg, Cu≤20pg	Cd≤1.0pg, Cu≤10pg	Cd≤0.8pg, Cu≤5pg	
	Repeatability (Cu)	RSD≤4%	RSD≤3%	RSD≤2.5%	
	Heating range of graphite furnace	Room temperature-3000℃			
	High power heating range	1500-3000℃			
	Slope and holding time	1-255s			
	Heating rate	Maximum heating rate 2000℃/s			
	Atomization heating mode	Light-controlled heating, Time-controlled heating, General heating			
	Protective gas flow outside pipe	1 L/min			
	Protective gas flow inside pipe	4-speed adjustable (0, 50, 200, 250/min flow)			
Safety Protection	Cooling water flow, Protective gas pressure, Furnace body temperature, Power supply temperature, Graphite furnace installation alarm				
Auto Sampler		Optional			
Data Processing	Measuring method	Flame method, Graphite furnace method, Hydride generation-Atomic absorption method, Flame emission method			
	Concentration calculation method	Standard curve method (6 linear/non-linear fitting methods), Standard addition method, Interpolation method			
	Repeat measurement times	1-30 times, Calculate and give the average value of absorbance/concentration, standard deviation and relative standard deviation			
	Report printing	Parameter printing, Data result printing			
Dimensions / Weight		850 x 650 x 550 mm/95kg			
Ambient Temp.		10 ~ 35 °C			
Ambient Humidity		≤85 %			
Power		110/220V, 50/60Hz			



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