

BK-AA4530F Atomic Absorption Spectrophotometer



Standard Aeecssories:



Oil free air compressor



Printer

Features:

- * Completely controlled by PC, can flexibly select the flame and graphite furnace atomizer (optional).
- * Integrated floated optical platform design improves the optical system shock resistance stable.
- * Eight light stands can be changed automatically and preheat the eight lights meantime as well as optimize the working condition of the hollow cathode lamp.
- * Position adjusting: the flame burner can be set on the best position automatically.
- * Fully automated wavelength scanning and peak searching.
- * Complete safety chains protection equipment: warning and automatic safety protection for the wrong burner connection, leakage of the gas, under voltage of air and the abnormal flameout.
- * Deuterium lamp and self-absorption background calibration.
- * Measuring method: flame absorption method and emission method.
- * Result printing: parameter, data result and diagram.
- * Data processing: more than 500 data self-storage and cut-off storage, the analyzed result is stored in EXCEL format.

Technical Parameters:

Model	BK-AA4530F
Wavelength Range	190~900nm
Spectral Bandwidth	0.1, 0.2, 0.4, 1.0 and 2.0nm
Wavelength Accuracy	≤±0.15nm
Wavelength Repeatability	≤0.04nm
Base Line Stability	≤0.002A/30min (Cu)
Characteristic Concentration	0.02µg/ml/1% (Cu)
Detection Limit	0.004µg/ml (Cu)
Preciseness	0.5%
Grating	1800 lines/mm
Inflamer	All-metal titanium burner
Atomizer	Effective glass atomizer
Lamp Stand	8
D2 Background Calibration	When the background is 1 A, the background ability should be deducted not less than 50 times; self absorption background deduction method
Power Supply	220V, 50Hz
Packing Size(W*D*H)	860*705*755mm(Main instrument); 1170*650*900mm(Accessories)
Gross Weight	100.8kg(Main instrument); 65kg(Accessories)
Standard Accessories	Software; Inkjet printer; Oil free Air compressor; Acetylene reducing valve; Cu Hollow cathode lamp; Air filter
Optional Accessories	Graphite Furnace 4510GF; Hollow cathode lamp(Ag, Au, Ca, Cd, Cr, Fe, Hg, K, Au, Mg, Mn, Na, Ni, Pb, Zn, Sb, etc), Graphite tubes, Recirculating cooling water system, Hydride generator, Autosampler

Flame System:

Acetylene Air Burner	100mm
Ignition Dynamic Baseline Drift	≤0.006A/30min
Characteristic Concentration	≤0.025µg/ml/1%(Cu)
Related Standard Deviation of the Accuracy	≤0.5%(Cu, absorbance>0.8A) (detection limit Cu≤0.008µg/ml)
Safety System	Can automatically cut off the gas when the pressure is not enough, the power is off, flameout and unconformity of the burner.

Graphite Furnace(Optional):

Max. Temperature	3000℃
Max Heating Speed	≥2000℃/S
Characteristic Quantity	Cd≤0.5*10 ⁻¹² g Cu≤0.5*10 ⁻¹¹ g
Accuracy	Cu≤3% Cd≤3%
Safety System	Over current protection Low air pressure alarm/protection; Low cooling water flow alarm/protection
Power Supply	220V, 50Hz
Consumption	7000W
Packing Size(W*D*H)	730*625*700mm
Gross Weight	79.3kg

Note: When selecting the graphite furnace, it is recommended to also select the recirculating cooling water system.