



www.IetLtd.com Proudly serving laboratories worldwide since 1979

CALL +847.913.0777 for Refurbished & Certified Lab Equipment

Shimadzu AA6800 Series

Specifications

Optics	Optical single beam / Electrical double beam
Wavelength range	190~900 nm
Mounting	Aberration-corrected Czerny-Turner mounting
Bandwidth	0.1, 0.2, 0.5, 1.0, 2.0, 5.0 nm (6-step automatic switching)
Background correction	BGC-SR (high-speed Self-Reversal method) and BGC-D2 (D2 lamp method; high-speed, dual frequency simultaneous measurement)
Number of HC lamps	8-lamp turret, 2 lamps simultaneously lit (1 for measurement, 1 warming up for next measurement)
Lamp mode	Emission, Non-BGC, BGC-SR, BGC-D2 and D2
Lamp data base	Lamp usage in hours or current x hours
Software requirements	MS-Windows95/98/NT
Parameter setting	Wizard method
Measurement mode	Flame continuous and furnace modes
Concentration computation	Calibration curve method (choice of 1st, 2nd and 3rd order functions), Standard Addition method, Simple Standard Addition method
Repeat analysis	Up to 20 repetitions. Mean value, standard deviation (SD) and coefficient of variation (RSD) displayed. Automatic exclusion of deviant values by setting SD and %RSD
Baseline correction	Automatic drift correction using electrical double beam signal processing in furnace mode.
Sensitivity correction	Automatic calibration correction with sensitivity monitoring
Tabular data processing	Calculation of final concentrations from sample volumes, lab bench dilutions, autosampler dilutions, and weight factors.
Multi-tasking	Spreadsheet software or word processing software may be executed during measurement.
Recall of parameters	Template functions available

Procedure/result display	MRT (Measured Results Table) worksheet
--------------------------	--

Report generation	Summary report
QA/QC	Correlation coefficient, QC, LCS, SPK, sample upper limit, %RSD

Power requirements	AC100, 120, 220, 230, 240 V±10%, 50/60 Hz, 600 VA, without sharp voltage fluctuations (Computer and peripherals require additional power.)
Dimensions and weight	1080W × 550D × 460H mm, 100 kg (including gas controller, excluding PC and peripherals)
Ambient temperature	10°C~35°C
Ambient humidity	45%~80% (less than 70% when temperature is greater than 30°C)

Specifications of AA-6800F

Burner Unit

Type	Air cooled pre-mix type
Burner head	Pure titanium
Nebulizer	Pt-Ir capillary with Teflon orifice, ceramic impact bead, standard unit able to handle hydrofluoric acid.
Chamber	Polypropylene
Positioning	Automatic flame/ furnace switching by motor Automatic search of optimum burner height

Gas Control

Safety measures	<ul style="list-style-type: none"> • Automatic gas leak check • Air-C₂H₂ flame priority ignition • Air-N₂O automatic change-over with flow rate monitor by optical sensor • Non-combusted fuel release prevention • Prevention of wrong burner head use • Flashback prevention by pressure monitor • Automatic flame extinction upon power outage or sudden power interruption • Drain tank level monitor to prevent flashback
-----------------	---

Specifications of AA-6800G (Specifications of GFA-EX7)

Heating control system	<ul style="list-style-type: none"> • Drying: Digital current control (with automatic temperature calibration function) • Ashing: Digital temperature control via optical sensor • Atomization: Digital temperature control via optical sensor
Heating Temperature range	• Temperature: Ambient to 3,000°C
Setting heating conditions	<ul style="list-style-type: none"> • Maximum 20 stages • Heating mode: RAMP/STEP • Inner gas type: Dual automatic switching type • High sensitivity mode setting • Enrichment in furnace: Maximum

	<ul style="list-style-type: none"> • 20 times • Inner gas flow rate: 0 to 1.50R/min 0.01R/min increments • Optimum temperature program search support function
Graphite tube (The graphite tube is not included. Please purchase this separately.)	<ul style="list-style-type: none"> • High-density graphite tube • Pyro-coated graphite tube • Platform tube
Safety features	<ul style="list-style-type: none"> • Cooling water flow rate monitor • Gas pressure monitor • Overcurrent protection unit (double check by breaker and optical sensor) • Furnace block cooling check
Cooling water	<ul style="list-style-type: none"> • Water temperature: 10 to 30°C (cooling unit required if temperature exceeds 30°C) • Supplied pressure: 0.08 to 0.15 MPa (decompression device required if pressure exceeds 0.17 MPa) • Flow rate: 0.6R/min or more
Gas	<ul style="list-style-type: none"> • Usable gas: argon, and dried air when necessary • Flow rate: Maximum 3.5R/min • Supplied pressure: 0.32 to 0.38 MPa, maximum 0.4 MPa
Power requirements	<ul style="list-style-type: none"> • AC200, 220, 230, 240 V ±5% maximum 6,000 VA, 50/60 Hz joint use
Connection	<ul style="list-style-type: none"> • M6 grounding terminal base
Power Supply Unit Dimensions and weight	<ul style="list-style-type: none"> • 255W × 428D × 460H mm, 41 kg (The power supply unit is installed in the space behind the main unit. Only the width of the main unit need be taken into consideration.)



www.IetLtd.com Proudly serving laboratories worldwide since 1979

CALL +847.913.0777 for Refurbished & Certified Lab Equipment