

1	1200P-S-F-GF	TRACE A1200 Plus F/GF Atomic Absorption Spectrometer
2	1200-S-1200P	TRACE A1200 Plus Spectrometer High spectral throughput optics with automatic drift correction; 0.3m Czerny-Turner mount monochromator; automated drive grating with 1800 grooves/mm; Wide range high sensitivity PMT 185 to 900 nm; adjustable bandpass settings 0.2, 0.6, 1.2 nm and reduced height 0.6 nm slit for GF analysis; Up to 1000Hz HCL data sampling rate; Self reversal (Smith-Hieftje) background correction for accurate correction; Power supply available in various AC configurations and safety interlocks. – PC, Windows OS, Microsoft Excel & instrument software are required for instrument operation and are sold separately.
3	1200P-FGF-12000	Flame/Graphite Furnace Automatic Switch (upgrade from Quick switch) <u>Combination includes both Flame and Graphite furnace atomizers.</u> Automated, single-click change among Flame/Graphite/VG with a computer controlled, motorized atomizer position adjustment platform. Flame Atomizing System Flame shield; corrosion resistant Allegheny alloy acetylene burner; solid PTFE spray chamber; liquid trap system; pressure relief bung; software control safety interlocks for burner type, burner fit, gas pressure & flame on/off sensors and automatic shutdown in the event of power failure. Graphite Furnace System Includes transversely heated graphite furnace, pyrolytically coated integrated contact cuvette (5.7 mm internal dia. x 19 mm); computer controlled Ar/He flow rate from 0 to 8.0 L/min; programmable temperature control range from ambient temperature to 3000°C; full range, real-time temperature display; up to 3800°K/s heating rate; temp/gas flow programs of up to 30 steps with multi injection sample, modifier capability; power, gas & overheat safety
4	1200P-PG-0002	Programmable Gas Control Software controlled fuel flow rate from 0 to 16L/min, with automatic changeover between oxidant gases.
5	1200P-LT-0001	Automatic 8-Lamp Turret 8 independent power supplies. Automatic alignment and coded lamp and standard lamp compatible.
6	1200P-DB-0002	Switchable True Double Beam Optics Software controlled switching between single beam and double beam optics.
7	1200P-D2-0002	D2 Background Correction Deuterium lamp with 1 ms rapid response for accurate correction. Electronic modulation of 1 kHz with deuterium current control and motorized aperture attenuation.
8	1200P-SF-8000	TRACE A1200 Plus Operation Software AISPEC 8.0 analytical applications software for spectrometer, Flame, GF, VG and autosampler control. data collection. treatment and transfer.
9	1200P-HI-0001	Hi Intensity HCL Power Supply Integrated two channels high intensity power supply for high intensity HCL. Provides improved sensitivities and lower detection limits.
10	1200-PC-0046	Computer: The computer specifications will be dependent upon the availability at the time of delivery and will vary. Warranty on computers is available from the computer manufacturer only.
11	1000-FA-0088	Flame AA Starter Kit Includes a spare nebulizer with capillary, 20m. Polyurethane tubing (6mm OD blue, for air), 20m Polyurethane tubing (4mm" OD red, for N2O), 2 O-rings for spray chamber safety plug, 2 O-rings for rotation lever, 2 O-rings for burner head, 4 Sample uptake tubes, 2 Stainless steel hex-head screws (10-24, for flame system mounting), cu 1000 ppm std. , Si 1000ppm Std (if nitrous oxide burner head is purchased) for system testing.
12	1200-SK-0013	Graphite Furnace Starter Kit Includes Electrode Spring Kit, Spacer Blocks (qty 4), O-Ring (1 set), Quartz Window (qty 2), Graphite Furnace Tube (qty 10 absorption type), Pipette Tips (rack of 96, 10µl to 250µl), cd 1000 ppm std. for system testing
13	1200-AS-0080	Autosampler Kit (F/GF/VG) Includes 0.5ml cup (1 pk of 1000 pcs), 2.0ml Cup (1 pk of 1000 pcs), 7ml vial (50 pcs), 30ml tubes (24 pcs), 50ml tubes (24 pcs), 250ml bottles (2 pcs), sampling probe for GF (thin) (1 pcs), sampling probe for flame (thick) (1 pcs), various sizes of self-assemble sample Rack (4 pcs), probe hold kit (1 set).
14	1200-AS-0200	Universal Autosampler Instrument mounted XYZ autosampler with syringe pump which works with all available atomizers including Flame, GF & VG. Offers random access, adjustable sample/reagent volumes, automatic standard and sample preparation for GF analysis (on-line dilution must be ordered separately to do standard preparation for flame analysis), standard addition, spike, dispensable volumes of 0 – 100 µL in increments of 0.1 µL, and compatibility with standard sample racks, standard solvent extraction test tubes, ICP test tubes, microplates and custom made trays.
10	1200-HCL-01-**	High Spectral Purity Hollow Cathode Lamps Choice of HCL elements at the discretion of customer from following: Al, Na, K
15	1200P-OD-0002	Flame Online Dilution Offers calibration from a single standard and over-range sample dilution for flame analysis.
16	Warranty	1 Year Manufacturer's Warranty. Service to be conducted at the manufacturer's site only. (Shipping charges to/from Aurora's service center is not included.)