Physical Specifications

Table 2 Physical Specifications

Type	Specification	Comments
Weight	12 kg (26.5 lbs)	
Dimensions (height × width × depth)	140 x 396 x 436 mm (5.5 x 15.6 x 17 inches)	
Line voltage	100 – 240 V~, ± 10 %	Wide-ranging capability
Line frequency	50 or 60 Hz, ± 5 %	
Power consumption	110 VA / 100 W	
Ambient operating temperature	4–55 °C (39–131 °F)	
Ambient non-operating temperature	-40 – 70 °C (-40 – 158 °F)	
Humidity	< 95 % r.h. at 40 °C (104 °F)	Non-condensing
Operating altitude	Up to 3000 m (9842 ft)	
Safety standards: IEC, EN, CSA, UL	Installation category II, Pollution degree 2	For indoor use only.
ISM Classification	ISM Group 1 Class B	According to CISPR 11

Performance Specifications G7165A

Table 4 Performance Specifications G7165A

Type	Specification
Detection type	1024-element photodiode array
Light source	Deuterium and tungsten lamps
Number of signals	8
Maximum data rate	120 Hz
Short term signal noise (ASTM)	< ± $0.7 \cdot 10^{-5}$ AU at 254 nm and 750 nm
Drift	< $0.9 \cdot 10^{-3}$ AU/h at 254 nm
Linear absorbance range	> 2 AU (5 %) at 265 nm
Wavelength range	190 – 950 nm
Wavelength accuracy	± 1 nm, self-calibration with deuterium lines, verification with holmium oxide filter
Wavelength bunching	1 – 400 nm
Slit width	1, 2, 4 , 8, 16 nm
Diode width	< 1 nm
Time programmable	Wavelength, polarity, peak width, lamp bandwidth, auto balance, wavelength range, threshold, spectra storage mode

Table 4 Performance Specifications G7165A

Type	Specification
Flow cells	Standard: 13 µL volume, 10 mm cell path length and 120 bar (1740 psi) pressure maximum Standard bio-inert: 13 µL volume, 10 mm cell path length and 120 bar (1740 psi) pressure maximum Semi-micro: 5 µL volume, 6 mm cell path length and 120 bar (1740 psi) pressure maximum Micro: 2 µL volume, 3 mm cell path length, 120 bar (1740 psi) pressure maximum Semi-nano: 500 nL volume, 10 mm cell path length and 40 bar (580 psi) pressure maximum Nano: 80 nL volume, 6 mm cell path length and 40 bar (580 psi) pressure maximum High pressure: 1.7 µL volume, 6 mm cell path length and 400 bar (5800 psi) pressure maximum Prep SST: 3 mm cell path length and 120 bar (1740 psi) pressure maximum Prep Quartz:0.3 mm cell path length and 50 or 20 bar (290 psi) pressure maximum Prep Quartz: 0.06 mm cell path length and 50 or 20 bar (290 psi) pressure maximum SFC Flow Cell: 13 µL volume, 10 mm cell path length and 400 bar (5800 psi) pressure maximum SFC Flow Cell LD: 2 µL volume, 3 mm cell path length and 400 bar (5800 psi) pressure maximum
Analog output	Recorder/integrator: 100 mV or 1 V, output range 0.001 – 2 AU, one output
Instrument control	Lab Advisor B.02.08 or above LC and CE Drivers A.02.14 or above For details about supported software versions refer to the compatibility matrix of your version of the LC and CE Drivers.
Local control	Agilent Instant Pilot (G4208A) B.02.20 or above
Communication	LAN, Controller Area Network (CAN), USB Extended Remote Interface (ERI): ready, start, stop and shut-down signals
GLP	RFID for electronics records of flow cell and UV lamp conditions (path length, volume, product number, serial number, test passed, usage) Early maintenance feedback (EMF) for continuous tracking of instrument usage in terms of lamp burn time with user-setable limits and feedback messages. Electronic records of maintenance and errors. Verification of wavelength accuracy with built-in holmium oxide filter.

Table 4 Performance Specifications G7165A

Type	Specification
Safety and maintenance	Extensive diagnostics, error detection and display through Agilent Instant Pilot and Agilent Lab Advisor software. Leak detection, safe leak handling, leak output signal for shutdown of pumping system. Low voltages in major maintenance areas. Tracking of flow cells and lamps with RFID (radio frequency identification) tags.
Housing	All materials recyclable.
Others	Second generation of Electronic temperature control (ETC) for the complete optical unit