

Physical Specifications

Table 1 Physical Specifications

Type	Specification	Comments
Weight	17.6 kg (38.8 lbs)	
Dimensions (height × width × depth)	180 × 396 × 436 mm (7.1 × 15.6 × 17.2 inches)	
Line voltage	100 – 240 V~, ± 10 %	Wide-ranging capability
Line frequency	50 or 60 Hz, ± 5 %	
Power consumption	90 VA / 74 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)	
Non-operating altitude	Up to 4600 m (15092 ft)	For storing the module
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

Table 2 Performance Specifications 1260 Infinity II Binary Pump (G7112B)

Type	Specification	Comments
Hydraulic system	Two dual piston in series pumps with servo-controlled variable stroke drive, power transmission by gears and ball screws, floating pistons	
Flow range	settable: 0.001 – 5 mL/min recommended: 0.05 – 5.0 mL/min	Set points in 0.001 mL/min increments
Flow precision	≤0.07 % RSD or < 0.02 min SD, whichever is greater	based on retention time at constant temperature
Flow accuracy	± 1 % or 10 µL/min, whichever is greater	pumping degassed H ₂ O at 10 MPa (100 bar, 1450 psi)
Pressure operating range	Up to 60 MPa (600 bar, 8702 psi) up to 5 mL/min	
Pressure pulsation	< 2 % amplitude (typically < 1.3 %), or < 0.3 MPa (3 bar, 44 psi), whichever is greater <i>Low delay volume configuration:</i> < 5 % amplitude (typically < 2 %)	
Compressibility compensation	Pre-defined, based on mobile phase compressibility	
Recommended pH range	1.0 – 12.5	Solvents with pH < 2.3 should not contain acids that attack stainless steel
Gradient formation	High-pressure binary mixing	
Delay volume	<i>Standard delay volume configuration:</i> 600 – 900 µL, (includes 400 µL mixer), dependent on back pressure <i>Low delay volume configuration:</i> 120 µL	measured with water at 1 mL/min (water/water with tracer)

Performance Specifications

Table 2 Performance Specifications 1260 Infinity II Binary Pump (G7112B)

Type	Specification	Comments
Composition range	settable: 0 – 100 % recommended: 1 – 99 % or 5 μ L/min per channel, whichever is greater	
Composition precision	< 0.15 % RSD or < 0.04 min SD, whichever is greater	at 0.2 and 1 mL/min; based on retention time at constant temperature
Composition accuracy	\pm 0.35 % absolute	at 2 mL/min at 10 MPa (100 bar, 1450 psi) (water/water with tracer)
Integrated degassing unit	Number of channels: 2 Internal volume per channel: 1.5 mL	
Control	Agilent control software (e.g. ChemStation, EZChrom, OpenLAB CDS, MassHunter)	
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
Communications	Controller-area network (CAN), Extended Remote Interface (ERI), Local Area Network (LAN)	
Safety and maintenance	Extensive diagnostics, error detection and display through Agilent LabAdvisor, leak detection, safe leak handling, leak output signal for shutdown of the pumping system. Low voltage in major maintenance areas.	

Performance Specifications

Table 2 Performance Specifications 1260 Infinity II Binary Pump (G7112B)

Type	Specification	Comments
GLP features	Early maintenance feedback (EMF) for continuous tracking of instrument usage in terms of seal wear and volume of pumped mobile phase with pre-defined and user settable limits and feedback messages. Electronic records of maintenance and errors.	
Housing	All materials are recyclable	