

Agilent 1260 Infinity II Binary Pump (G7112B)

Physical Specifications

Table 11 Physical Specifications

Type	Specification	Comments
Weight	17.6 kg (38.8 lbs)	
Dimensions (height × width × depth)	180 x 396 x 436 mm (7.1 x 15.6 x 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 12 Performance Specifications 1260 Infinity II Binary Pump (G7112B)

Type	Specification
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
Flow precision	≤0.07 % RSD or < 0.02 min SD, whichever is greater
Flow accuracy	± 1 % or 10 µL/min, whichever is greater
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
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
Composition range	settable: 0 – 100 % recommended: 1 – 99 % or 5 µL/min per channel, whichever is greater
Composition precision	< 0.15 % RSD or < 0.04 min SD, whichever is greater
Composition accuracy	± 0.35 % absolute
Integrated degassing unit	Number of channels: 2 Internal volume per channel: 1.5 mL
Instrument Control	Agilent control software with LC and CE Drivers A.02.14 or above Lab Advisor B.02.09 or above Agilent Instant Pilot (G4208A) with firmware B.02.20 or above Instrument Control Framework (ICF) A.02.04 or above

1 Pumps

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Type	Specification
Communications	Controller-area network (CAN), Extended Remote Interface (ERI), Local Area Network (LAN)
Safety and maintenance	Extensive diagnostics, error detection and display through Agilent Lab Advisor, leak detection, safe leak handling, leak output signal for shutdown of the pumping system. Low voltage in major maintenance areas.
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