Agilent 1260 Infinity II Flexible Pump (G7104C)

Physical Specifications

Table 3 Physical Specifications G7104C

Type	Specification	Comments
Weight	16.1 kg (35.5 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	120 VA / 110 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

Table 4 Performance Specifications G7104C

Type	Specification	Comments
Hydraulic system	Dual pistons in series pump with proprietary servo-controlled variable stroke design and smooth motion control for active damping.	
Pump resolution step size	300 pL	
Flow range	Settable: 0.001 – 5 mL/min	in 0.001 mL/min increments
Flow precision	≤ 0.07 % RSD or 0.01 min SD, whichever is greater	
Flow accuracy	± 1 % or ±10 µL/min, whichever is greater	Pumping degassed H_2O
Pressure operating range	Up to 80 MPa (800 bar, 11603 psi) up to 5 mL/min	
Pressure pulsation	< 1 % amplitude or < 0.5 MPa (5 bar), whichever is greater	
Compressibility compensation	Automatic	When using "Solvent Types" in method
Recommended pH-range	1.0 – 12.5	Solvents with pH <2.3 should not contain acids which attack stainless steel
Gradient formation	Low pressure quaternary mixing/gradient capability using proprietary high-speed proportioning valve	
Delay volume	≤ 350 µL (default configuration)	Measured with water at 1 mL/min (water/water with tracer)
Composition range	Settable range: 0 – 100 % Recommended range: 1 – 99 %	
Composition precision	< 0.15 % RSD or 0.02 min SD, whichever is greater	
Composition accuracy	± 0.4 % absolute	At 1 mL/min for water/water with tracer
Number of solvents	4	

Table 4 Performance Specifications G7104C

Type	Specification	Comments
Solvent selection valve	Internal 4-solvent gradient formation valve included. External 2 x 12 solvent valve as option, fully integrated in the pump control interface.	
Integrated degassing unit	Number of channels: 4, Internal volume per channel: 1.5 mL	
Materials in contact with solvent	TFE/PDD copolymer, FEP, PEEK, PPS, stainless steel, polyimide, ceramic, HMWPE	
Automatic purge valve	Enables automatic software-embedded functionalities such as switching the optional mixer in and out or automatic purging.	
Active seal wash	Included	
Intelligent System Emulation Technology (ISET)	Included	
Instrument control	LC & CE Drivers A.02.17 or above Instrument Control Framework (ICF) A.02.05 or above InfinityLab LC Companion (G7108AA) with firmware D.07.25 or above Instant Pilot (G4208A) with firmware B.02.22 or above Lab Advisor software B.02.10 or above	For details about supported software versions refer to the compatibility matrix of your version of the LC & CE Drivers
Communication	Controller Area Network (CAN), LAN, RS232C, APG remote: ready, start, stop, and shutdown signals	
Safety features and maintenance	Leak detection, safe leak handling, leak output signal for shutdown of the pumping system. No hazardous voltages in major maintenance areas. Extensive diagnostics, error detection and display with Agilent Lab Advisor software.	

Table 4 Performance Specifications G7104C

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.	