



Agilent 1260 Infinity II Isocratic Pump

Data Sheet



Product Description

This LC workhorse is ideal for demanding QA/QC tasks and routine applications requiring maximum uptime at low operating and maintenance cost. The optional integrated degasser and solvent selection valve offers increased ease-of-use and method flexibility. The pump can deliver stable solvent flows over a broad flow range up to 10 mL/min. The maximum pressure up to 600 bar enables the use of small particle size columns, longer columns or alternative higher viscosity solvents. The 1260 Infinity II Isocratic Pump is the ideal pump for GPC/SEC applications where run-to-run and day-to-day precision in retention times is crucial.

Features

- Higher resolution and increased throughput - using 600 bar pressure for modern LC columns.
- Low operating and maintenance costs - due to excellent instrument uptime.
- Increased ease-of-use and solvent flexibility - with an optional integrated degasser and solvent selection valve.
- Future proof - your investment is protected as you can upgrade to a quaternary pump if necessary.
- Versatile wide flow range - from 0.05 to 10 mL/min for analytical and semipreparative separations and purifications.
- Fast and easy maintenance - front access to all maintenance parts means you can change components quickly without having to disassemble the instrument.
- Longevity and low operating costs - robust materials (stainless steel, titanium, gold, ruby, sapphire, ceramics, PEEK and PTFE) withstand the most demanding applications and keep your pump functioning for years. Our optional seal wash for high-salt mobile phases keeps maintenance to a minimum and reduces operating costs.



Specifications

Table 1 Physical Specifications

Type	Specification	Comments
Weight	14.0 kg (31 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	80 VA, 65 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

Table 2 Performance Specifications 1260 Infinity II Isocratic Pump (G7110B)

Type	Specification
Hydraulic system	Dual piston in series pump with servo-controlled variable stroke drive, power transmission by gears and ball screws, floating pistons
Settable flow range	Set points 0.001 – 10 mL/min, in 0.001 mL/min increments
Recommended flow range	0.2 – 10.0 mL/min
Flow precision	≤0.07 % RSD, or ≤0.02 min SD whatever is greater
Flow accuracy	± 1 % or 10 µL/min whatever is greater, pumping degassed H ₂ O at 10 MPa (100 bar)
Pressure operating range	Operating range up to 60 MPa (600 bar, 8700 psi) up to 5 mL/min Operating range up to 20 MPa (200 bar, 2950 psi) up to 10 mL/min

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Type	Specification
Pressure pulsation	< 2 % amplitude (typically < 1.3 %), or < 0.3 MPa (3 bar, 44 psi), whatever is greater, at 1 mL/min isopropanol, at all pressures > 1 MPa (10 bar, 145 psi)
Compressibility compensation	User-selectable, based on mobile phase compressibility
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), Enhanced Remote Interface: ready, start, stop and shut-down signals, LAN onboard
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.
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

Ordering Details

Table 3 Ordering Details 1260 Infinity II Isocratic Pump

Description	Product Number
Agilent 1260 Infinity II Isocratic Pump 600 bar pressure limit.	G7110B
HPLC System Tool Kit for 1260/1290 Infinity II LC	G7110B#001
Lab Advisor Advanced Software	G7110B#004
1260 Infinity II Max Uptime Kit	G7110B#007
1260 Infinity II Low Dispersion Kit MCT	G7110B#008
Integrated Degasser and Solvent Selection Valve	G7110B#034
Agilent Poroshell 120 EC-C18 4.6x100 mm, 2.7 µm	G7110B#093
Agilent Poroshell 120 EC-C18 3.0x150 mm, 2.7 µm	G7110B#094
Agilent Poroshell 120 EC-C18 3.0x50 mm, 2.7 µm	G7110B#095
Delete Solvent Cabinet	G7110B#960
Active Seal Wash	G1398A
Upgrade Isocratic Pump to Quaternary Pump	G4207B

www.agilent.com/chem/infinitylab-lc-series

This information is subject to change without notice.

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