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Agilent 1260 Infinity Quaternary Pump

Features, Specifications and Ordering Details



A versatile pump now with extended power range

The Agilent 1260 Infinity Quaternary Pump now comes with an extended pressure range of up to 600 bar. This allows the usage of smaller particle size columns and results in higher resolution or faster separations. The design ensures virtually pulse-free and stable solvent flow, with dual floating pistons in series, precisely servo-controlled. The variable stroke volume allows pulse-free solvent delivery and efficient mixing. The Agilent 1260 Infinity Quaternary Pump provides highest flexibility in automated solvent blending and is recommended for a wide range of research and routine applicationsas well as for method development.

Features

- A maximum pressure of 600 bar to utilize smaller particle size columns for higher resolution and faster separations.
- This power range allows the usage of longer columns and/or higher viscous solvents as an alternative to acetonitrile.
- A wide flow range up to 10 mL/min perfectly supports standard up to semi-preparative applications. The perfect choice for 4.6 and 3.0 mm id columns.
- Speeds up method development, preparation of mobile phases and flushing the HPLC system by offering convenient access of up to four solvents for isocratic or gradient analysis.
- Easy, fast and secure transfer of methods from HPLC to sub-2-micron columns.
- New degasser technology integrated in pump.
- Application focus: Routine applications in the environmental and food area, as well as method development in the pharmaceutical industry.
- Keeps maintenance to a minimum for lower operation costs by using robust materials such as stainless steel, titanium, gold, ruby, sapphire, ceramics, PEEK and PTFE. Optional active seal wash option for high salt mobile phases to prevent corrosion.

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Specifications – Agilent 1260 Infinity Quaternary Pump

Specifications Agilent 1260 Infinity Quaternary Pump (G1311B) and VL version (G1311C)	
Hydraulic system	Dual piston in series pump with servo-controlled variable stroke drive, floating pistons.
Settable flow range	Set points 0.001 - 10 mL/min, in 0.001 mL/min increments.
Flow range	0.2 - 10.0 mL/min
Flow precision	≤ 0.07 % RSD or ≤ 0.02 min SD, whatever is greater; based on retention time at constant room temperature.
Flow accuracy	± 1 % or 10 µL/min whatever is greater; pumping degassed H_2O at 10 MPa (100 bar).
Pressure operating range	1260 Infinity Quaternary pump: 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 1260 Infinity Quaternary pump VL: Operating range up to 40 MPa (400 bar, 5880 psi) up to 5 mL/min Operating range up to 20 MPa (200 bar, 2950 psi) up to 10 mL/min
Pressure pulsation	< 2 % amplitude (typically < 1.3 %) or < 0.3 MPa (3 bar), whatever is greater, at 1 mL/min isopropanol, at all pressures > 1 MPa (10 bar, 147 psi).
Compressibility compensation	User selectable, based on mobile phase compressibility.
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 high-speed proportioning valve.
Delay volume	600 – 900 µL, dependent on back pressure; measured with water at 1 mL/min (water/caffeine tracer).
Composition range	0 - 95 % or 5 - 100 %, user selectable.
Composition precision	< 0.2 % RSD or < 0.04 min SD, whatever is greater, at 1 mL/min; based on retention time at constant room temperature.
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
Control	Agilent control software (e.g. ChemStation, EZChrom, OL, MassHunter).
Local control	Agilent Instant Pilot
Communications	Controller-area network (CAN), RS-232C, APG Remote: ready, start, stop and shut-down signals, LAN optional.
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 – Agilent 1260 Infinity Quaternary Pump and Quaternary Pump VL

Description	Product Number
Agilent 1260 Infinity Quaternary Pump. Maximum pressure 600 bar	G1311B
Tool kit for 1260/1290 LC	G1311B#001
HPLC Starter-Kit incl. 0.17 mmID capillaries	G1311B#002
HPLC Starter-Kit incl. 0.12 mm ID capillaries	G1311B#003
Lab Advisor	G1311B#004
Active seal wash option	G1311B#030
Active seal wash (field upgrade)	G1398A
LAN Interface	G1311B#500
Delete option for solvent-cabinet	G1311B#960
Agilent 1260 Infinity Quaternary Pump VL. Maximum pressure 400 bar	G1311C
Tool kit for 1260/1290 LC	G1311C#001
HPLC Starter Kit incl. 0.17 mm ID capillaries	G1311C#002
HPLC Starter Kit incl. 0.12 mm ID capillaries	G1311C#003
Lab Advisor	G1311C#004
Active seal wash (field upgrade)	G1398A
LAN Interface	G1312C#500
Delete option for solvent cabinet	G1312C#960

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