



# Agilent 1260 Infinity Isocratic Pump

## Features, Specifications and Ordering Details



### HPLC workhorse for demanding QA/QC and routine applications

The optimized design of the Agilent 1260 Infinity Isocratic Pump ensures virtually pulse-free and stable solvent flow, with dual floating pistons in series, precisely servo-controlled. This delivery principle allows variable stroke volume optimized to selected flow rate. The broadened pressure range with maximum pressure of 600 bar allows the use of small particle size columns, longer columns, or alternative solvents of higher viscosity. It is the ideal pump for GPC/SEC applications where run-to-run and day-to-day precision of retention times is important.

### Features

- 600 bar as new standard for additional usage of modern LC columns to obtain higher resolution and increased throughput.
- Low operating and maintenance costs – due to long instrument uptime.
- Future proof high investment protection since upgradeable to quaternary pump.
- Versatile wide flow range – from 0.05 mL/min up to 10 mL/min for analytical and semipreparative separations.
- Easy front access to all maintenance parts – parts can be exchanged quickly without the need to disassemble the instrument.
- Robust materials withstand most demanding applications – stainless steel, titanium, gold, ruby, sapphire, ceramics, PEEK and PTFE ensure long lifetime. Seal wash option for high salt mobile phases keeps maintenance to a minimum for lower operation costs.



**Agilent Technologies**

## Specifications – Agilent 1260 Infinity Isocratic Pump

Specifications Agilent 1260 Infinity Isocratic Pump (G1310B)	
<b>Hydraulic system</b>	Dual piston in series pump with servo-controlled variable stroke drive, floating pistons.
<b>Settable flow range</b>	Set points 0.001 - 5 mL/min, in 0.001 mL/min increments.
<b>Flow range</b>	0.2 - 10.0 mL/min
<b>Flow precision</b>	≤ 0.07 % RSD or ≤ 0.02 min SD, whatever is greater; based on retention time at constant room temperature.
<b>Flow accuracy</b>	± 1 % or 10 µL/min whatever is greater, pumping degassed H <sub>2</sub> O at 10 MPa (100 bar).
<b>Pressure operating range</b>	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
<b>Pressure pulsation</b>	< 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).
<b>Compressibility compensation</b>	User selectable, based on mobile phase compressibility.
<b>Control</b>	Agilent control software (e.g. ChemStation, EZChrom, OL, MassHunter).
<b>Local control</b>	Agilent Instant Pilot
<b>Communications</b>	Controller-area network (CAN), RS-232C, APG Remote: ready, start, stop and shut-down signals, LAN optional.
<b>Safety and maintenance</b>	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.
<b>GLP features</b>	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.
<b>Housing</b>	All materials are recyclable.

## Ordering Details – Agilent 1260 Infinity Isocratic Pump

Description	Product Number
Agilent 1260 Infinity Isocratic Pump. Maximum pressure 600 bar	G1310B
Tool kit for 1260/1290 Infinity LC	G1310B#001
HPLC Starter-Kit incl. 0.17 mm ID capillaries	G1310B#002
HPLC Starter-Kit incl. 0.12 mm ID capillaries	G1310B#003
Lab Advisor	G1310B#004
Active seal wash	G1398A
LAN Interface	G1310B#500
Delete option for solvent-cabinet	G1310B#960
Upgrade isocratic pump to quaternary	G4207A
Agilent 1260 Infinity Standard Degasser ( <i>recommended</i> )	G1322A
Agilent 1260 Infinity Micro Degasser ( <i>recommended</i> )	G1379B

[www.agilent.com/chem/1200](http://www.agilent.com/chem/1200)

© Agilent Technologies, Inc., 2010  
Published in USA, July 1, 2010  
Publication Number 5990-6099EN



**Agilent Technologies**