



Agilent 1200 Infinity Series

Selection Guide



Agilent Technologies

INFINITELY MORE CHOICE

The Agilent 1200 Infinity Series offers you an unmatched choice of instrumentation for liquid chromatography. Use this product selection guide to identify which configuration fits best to your laboratory's requirements.

Agilent 1200 Infinity Series Analytical LC Systems

With 600 bar pressure and 80 Hz detector speed as standard, all 1220 Infinity and 1260 Infinity systems are capable of running conventional HPLC as well as leading-edge UHPLC methodologies. The 1300 bar power range of the 1290 Infinity II systems helps you maximize chromatographic performance, instrument usability and laboratory productivity – for maximum efficiency.



1290 Infinity II LC – New Benchmarks in Efficiency

The new Agilent 1290 Infinity II LC embodies the future of UHPLC – with the exceptional reliability and robustness you expect from Agilent, plus breakthrough technologies to maximize the efficiency of your business in three dimensions.

- **Maximize analytical efficiency:** Unmatched separation and detection performance deliver analysis data of the highest quality – for ultimate confidence in your results.

- **Maximize instrument efficiency:** Highest sample capacity and fastest injection cycles combine with new levels of usability – for highest throughput for any application.
- **Maximize laboratory efficiency:** Seamless integration in current infrastructure and smooth method transfer from legacy equipment – for non-disruptive transition to highest productivity and lowest cost of ownership.



1260 Infinity Binary LC

Invest no more than a typical HPLC system but achieve faster results with significantly higher data quality. Benefit from superior gradient accuracy through high-pressure solvent mixing.



1260 Infinity Quaternary LC

Gain the flexibility to use up to four solvents for gradient composition. Achieve faster separation, higher resolution and better detection performance than ever before on a quaternary LC at the price of a typical HPLC system.



1260 Infinity Isocratic LC

Meet the demanding needs of QA/QC and other routine applications requiring high performance UHPLC at lowest cost of ownership. Start small and upgrade as your demands increase.



1220 Infinity Gradient LC

Get the highest return on your investment with this integrated, highly reliable and easy-to-use LC for routine applications. Benefit from UHPLC performance – at a highly affordable price.

Agilent 1200 Infinity Series Extended LC Systems and Workflow Solutions

The flexibility of the 1200 Infinity Series allows Agilent to offer the broadest of portfolio of liquid chromatography solutions. From method development to high-throughput LC/MS and from 2D-LC to online SPE, the 1200 Infinity Series gives you infinite possibilities to solve your separation challenges.



High-Throughput Solutions

Boost sample throughput in your laboratory through fastest analysis speeds and shortest injection cycles – without compromising the quality and robustness of your data.



HDR-DAD Impurity Analyzer

Detect and quantify all components in your sample – in a single run – with UHPLC speed and resolution, 30x wider dynamic range and 30x higher sensitivity.



Online SPE Solutions

Enrich analytes, remove matrix components or lower detection limits with tailored solutions to match virtually any analytical LC challenge.



Method Development Solutions

Accelerate your method development with dedicated hardware and software. Utilize up to 26 solvents and 8 columns to create more than 1000 different sets of LC conditions.



Analytical SFC System

Achieve superior resolution of stereoisomers through supercritical fluid chromatography with standard-grade CO₂. Lower solvent waste and cut purchase and disposal costs.



Bio-Inert LC System

Protect your bio-molecules and your instrumentation with a corrosion-resistant and biologically-inert flow path – for more confidence in your bio-analysis and bio-purification, as well as in non-biological applications requiring an inert flow path.



2D-LC Solutions

Switch easily between one-dimensional UHPLC and the ultimate chromatographic power of heart-cutting, multiple heart-cutting and comprehensive 2D-LC.



Method Transfer Solutions

Execute any legacy HPLC or latest UHPLC method while achieving the same chromatographic results. Transfer methods seamlessly between Agilent or other LC systems.

INFINITELY MORE CHOICE

Solvent Preparation

<input type="checkbox"/>	1260 Infinity Standard Degasser	4 channels; up to 10 mL/min flow; 12 mL internal volume per channel	G1322A
<input type="checkbox"/>	1260 Infinity High Performance Degasser	4 channels; up to 10 mL/min; 0.45 mL internal volume per channel	G4225A

Solvent Delivery

<input type="checkbox"/>	1290 Infinity II High Speed Pump	Up to 1300 bar at 0 to 2 mL/min, ramping down to 800 bar at 5 mL/min; binary solvent mixing; integrated degassing unit	G7120A
<input type="checkbox"/>	1290 Infinity II Flexible Pump	Up to 1300 bar at 0 to 2 mL/min, ramping down to 800 bar at 5 mL/min; quaternary solvent mixing; integrated degassing unit	G7104A
<input type="checkbox"/>	1290 Infinity Binary Pump	1200 bar up to 2 mL/min; 800 bar up to 5 mL/min; integrated degassing unit	G4220A
<input type="checkbox"/>	1290 Infinity Quaternary Pump	1200 bar up to 2 mL/min; 800 bar up to 5 mL/min; integrated degassing unit	G4204A
<input type="checkbox"/>	1260 Infinity Binary Pump	600 bar up to 5 mL/min	G1312B
<input type="checkbox"/>	1260 Infinity Quaternary Pump	600 bar up to 5 mL/min; 200 bar up to 10 mL/min; integrated degassing unit	G1311B
<input type="checkbox"/>	1260 Infinity Bio-inert Quaternary Pump	600 bar up to 5 mL/min; 200 bar up to 10 mL/min; integrated degassing unit	G5611A
<input type="checkbox"/>	1260 Infinity Isocratic Pump	600 bar up to 5 mL/min; 200 bar up to 10 mL/min	G1310B
<input type="checkbox"/>	1260 Infinity Capillary Pump	Up to 20 μ L/min; up to 100 μ L/min with extended flow range kit; 400 bar; 0.18 to 1.0 mm column id	G1376A
<input type="checkbox"/>	1260 Infinity Nanoflow Pump	Up to 4 μ L/min; 400 bar; 0.075 to 0.1 mm column id	G2226A
<input type="checkbox"/>	1260 Infinity Preparative Pump	Up to 100 mL/min; 400 bar; 4.6 to 50 mm column id	G1361A

Valve Solutions

<input type="checkbox"/>	1290 Infinity Flexible Cube	For enhanced injection modes and advanced valve-switching applications such as online SPE	G4227A
<input type="checkbox"/>	1290 Infinity Valve Drive	Drive unit for any Agilent Quick-Change valve head	G1170A
<input type="checkbox"/>	1200 Infinity Series Quick-Change Valves	Available in stainless-steel for high-pressure and ultrahigh pressure applications (600 and 1200 bar) as well as with bio-inert materials in flow paths for bio-chromatographic applications	Go online for order numbers

Sample Injection

<input type="checkbox"/> 1290 Infinity II Multisampler	0 to 20 μ L or 0 to 100 μ L single-stroke injection at maximum pressure; up to 1500 μ L with optional kits; sample capacity up to 8 vial trays and up to 16 microtiter plates; multi-wash option for less than 9 ppm carryover; optional sample cooling available (option 100)	G7167B
<input type="checkbox"/> 1290 Infinity Autosampler	0.1 to 20 μ L injection from vials and microtiter plates (up to 40 or 100 μ L with optional loops; up to 120 μ L with multi-draw mode at 1200 bar)	G4226A
<input type="checkbox"/> 1290 Infinity Thermostat	4 to 40 $^{\circ}$ C (for selected autosamplers)	G1330B
<input type="checkbox"/> 1290 Infinity LC Injector HTS	0.1 to 100 μ L (5 mL extended) injection from vials or microtiter plates	G4277A
<input type="checkbox"/> 1290 Infinity LC Injector HTC	0.1 to 100 μ L (5 mL extended) injection from vials or microtiter plates	G4278A
<input type="checkbox"/> 1260 Infinity Multisampler	0 to 100 μ L single-stroke injection at maximum pressure; up to 1500 μ L with optional kits; sample capacity up to 8 vial trays and up to 16 microtiter plates; multi-wash option for less than 9 ppm carryover; optional sample cooling available (option 100)	G7167A
<input type="checkbox"/> 1260 Infinity Standard Autosampler	0.1 to 100 μ L (1500 μ L extended) injection from vials	G1329B
<input type="checkbox"/> 1260 Infinity High Performance Autosampler	0.1 to 100 μ L (1500 μ L extended) injection from vials and microtiter plates	G1367E
<input type="checkbox"/> 1260 Infinity High Performance Bio-inert Autosampler	0.1 to 100 μ L injection from vials and microtiter plates; all materials in flow path inert	G5667A
<input type="checkbox"/> 1260 Infinity High Performance Micro Autosampler	0.01 to 8 μ L injection from vials and microtiter plates	G1377A
<input type="checkbox"/> 1260 Infinity Preparative Autosampler	0.1 to 5000 μ L injection from vials	G2260A
<input type="checkbox"/> 1260 Infinity Dual-Loop Autosampler	Up to 5 mL injection from vials and microtiter plates	G2258A
<input type="checkbox"/> 1260 Infinity Manual Injector	5 μ L to 20 mL injection loops	G1328C
<input type="checkbox"/> 1260 Infinity Bio-inert Manual Injector	5 μ L to 20 mL injection loops	G5628A
<input type="checkbox"/> 1260 Infinity Chip Cube MS Interface	0.1 to 1 μ L flow	G4240A

Column Compartments

<input type="checkbox"/> 1290 Infinity II Multicolumn Thermostat	20 degrees below ambient to 110 °C; up to four 30-cm columns and up to eight 10-cm columns; up to eight individual Agilent Quick-Connect heat exchangers for standard flow, high flow and ultralow dispersion; optional valve drive for Agilent Quick-Change valve heads	G7116B
<input type="checkbox"/> 1290 Infinity Thermostatted Column Compartment	10 degrees below ambient to 100 °C; up to three 30-cm columns; Optional valve drive for Agilent Quick-Change valve heads	G1316C
<input type="checkbox"/> 1260 Infinity Thermostatted Column Compartment	10 degrees below ambient to 80 °C; up to three 30-cm columns	G1316A

UV Detection

<input type="checkbox"/> 1290 Infinity II Diode Array Detector	$\pm 0.6 \mu\text{AU/cm}$ noise (60 mm Max-Light cartridge cell) or $\pm 3 \mu\text{AU/cm}$ noise (10 mm Max-Light cell); 240 Hz; spectra; 8 signals; 1 to 8 nm slit; 190 to 640 nm	G7117B
<input type="checkbox"/> 1290 Infinity II Diode Array Detector FS	$\pm 0.6 \mu\text{AU/cm}$ noise (60 mm Max-Light cartridge cell) or $\pm 3 \mu\text{AU/cm}$ noise (10 mm Max-Light cell); 120 Hz; spectra; 8 signals; fixed slit; 190 to 640 nm	G7117A
<input type="checkbox"/> 1290 Infinity II Variable Wavelength Detector	$\pm 1.5 \mu\text{AU}$ noise; 240 Hz; time-programmable, 240 Hz (single wavelength detection); 2.5 Hz (dual wavelength detection); 190 to 600 nm	G7114B
<input type="checkbox"/> 1290 Infinity Diode Array Detector	$\pm 0.6 \mu\text{AU/cm}$ noise (60 mm Max-Light cell) or $\pm 3 \mu\text{AU/cm}$ noise (10 mm Max-Light cell); 160 Hz; spectra; 8 signals; 1 to 8 nm slit; 190 to 640 nm	G4212A
<input type="checkbox"/> 1290 Infinity Variable Wavelength Detector	$\pm 1.5 \mu\text{AU}$ noise; 160 Hz; time-programmable, single wavelength detection; 190 to 600 nm	G1314E
<input type="checkbox"/> 1260 Infinity Diode Array Detector	$\pm 0.6 \mu\text{AU/cm}$ noise (60 mm Max-Light cell) or $\pm 3 \mu\text{AU/cm}$ noise (10 mm Max-Light cell); 80 Hz; spectra; 8 signals; 190 to 640 nm	G4212B
<input type="checkbox"/> 1260 Infinity Multiple Wavelength Detector	$\pm 7 \mu\text{AU}$ noise; 80 Hz; 8 signals; 190 to 950 nm	G1365C
<input type="checkbox"/> 1260 Infinity Variable Wavelength Detector	$\pm 2.5 \mu\text{AU}$ noise; 80 Hz; time-programmable, single wavelength detection; 190 to 600 nm	G1314F

Special Detection

<input type="checkbox"/>	1290 Infinity II Evaporative Light Scattering Detector	For sub-ambient operation; flow range 0.2 to 5 mL/min; evaporator temperature 10 to 80 °C; nebulizer temperature 25 to 90 °C	G7102A
<input type="checkbox"/>	1260 Infinity Evaporative Light Scattering Detector	For sub-ambient operation; flow range 0.2 to 5 mL/min; evaporator temperature 25 to 120 °C; nebulizer temperature 25 to 90 °C	G4260B
<input type="checkbox"/>	1260 Infinity Fluorescence Detector Spectra	Multi-signal fluorescence detector; online spectra; 4 signals; 145 Hz; 4000 h lamp; Raman (H ₂ O) > 500 (noise reference measured at signal); Raman (H ₂ O) > 3000 (noise reference measured at dark value)	G1321B
<input type="checkbox"/>	1260 Infinity Fluorescence Detector	One signal wavelength, 74 Hz; 4000 h lamp; Raman (H ₂ O) > 500 (noise reference measured at signal); Raman (H ₂ O) > 3000 (noise reference measured at dark value)	G1321C
<input type="checkbox"/>	1260 Infinity Refractive Index Detector	5 ng LOD sucrose; 37 Hz; 1.00 to 1.75 RI Range; < 1 h warm up	G1362A

Fraction Collection

<input type="checkbox"/>	1290 Infinity Thermostat	4 to 40 °C (for all fraction collectors)	G1330B
<input type="checkbox"/>	1260 Infinity Preparative-scale Fraction Collector	Up to 100 mL/min flow	G1364B
<input type="checkbox"/>	1260 Infinity Analytical-scale Fraction Collector	Up to 10 mL/min flow	G1364C
<input type="checkbox"/>	1260 Infinity Bio-inert Analytical-scale Fraction Collector	Up to 10 mL/min flow; all materials in flow path inert	G5664A
<input type="checkbox"/>	1260 Infinity Micro-scale Fraction Collector/Spotter	Up to 100 µL/min flow	G1364D

Integrated LC Systems

<input type="checkbox"/>	1220 Infinity Gradient LC	Binary gradient solvent pump, autosampler, column oven and diode array detector	G4294B
<input type="checkbox"/>	1220 Infinity Gradient LC	Binary gradient solvent pump, autosampler, column oven and variable wavelength detector	G4290B
<input type="checkbox"/>	1220 Infinity Gradient LC	Binary gradient solvent pump, manual injector and variable wavelength detector	G4288B
<input type="checkbox"/>	1220 Infinity Isocratic LC	Single solvent pump, manual injector and variable wavelength detector	G4286B

Learn more

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