

AGILENT

1260 Infinity

The Agilent 1260 Infinity is a modular High-Performance Liquid Chromatography (HPLC) and UHPLC system designed for routine analytical work, method development, and quality control. Succeeding the industry-standard 1200 Series, the 1260 Infinity raised the standard HPLC pressure limit to 600 bar, allowing for higher flow rates, narrower columns, and increased resolution without sacrificing backward compatibility for established HPLC methods. As a highly configurable platform, its exact specifications depend on the chosen pump, autosampler, column compartment, and detector modules.

SPECIFICATIONS

System Overview

System Type	HPLC / UHPLC
Maximum Operating Pressure	600 bar (8700 psi)
Configurable Modules	Pump, Autosampler, Column Compartment, Detector, Fraction Collector (configuration dependent)

Pump / Solvent Delivery

Operating Pressure Range	Up to 600 bar (at 0 to 5 mL/min); Up to 200 bar (at 5 to 10 mL/min)
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Autosampler / Sample Injection

Injection Volume Range	0.1 to 100 µL (standard configuration)
Sample Capacity (Vials)	100 × 2 mL vials (standard tray)

Column Compartment / Thermostat

Temperature Control Range	10 °C below ambient to 80 °C (standard thermostatted column compartment)
Column Capacity (Max Quantity)	Up to 3 columns (up to 30 cm length)

Software and Communications

Controller Area Network (CAN) Support	Yes (inter-module synchronization and control)
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Fluidics

Compressibility Compensation	Automatic, continuous
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Safety

Leak Detection	Built-in leak sensors in all modules with safe leak handling
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GLP & Diagnostics

Early Maintenance Feedback (EMF)	Continuous tracking of instrument usage with user-settable limits and alarm messages
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Performance

Gradient Mixing Mechanism

Low-pressure mixing (Quaternary pump) / High-pressure mixing (Binary pump)

Compliance & GLP

Component Tracking (RFID)

RFID tags for automatic recognition of columns, UV lamps, and flow cells (module dependent)

TECHNOLOGY

Liquid Chromatography (HPLC / UHPLC)

APPLICATIONS

Analytical chemistry, pharmaceutical QA/QC, environmental testing, food and beverage analysis, and biochemical research

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