

This [First-class refurbished Agilent 1200 HPLC system](#) is in great shape. It has been tested on working according factory settings of the manufacturer by certified service engineers. The instrument is cleaned (inside and outside) and decontaminated. Broken and spare parts are replaced by original parts of the manufacturer. **Revised/ refurbished Agilent HPLC systems come with warranty.** A longer guarantee period is available.

Agilent HPLC system with Quaternary Pump G1311A and 1200 G1362A RID

- [Agilent 1200 G1311A Quat Pump](#)
- [Agilent 1200 G1362A RID](#)
- [Agilent 1200 G1329A Autosampler](#)
- [Agilent 1200 G1316A TCC](#)
- [Agilent 1200 G1379B Vacuum Degasser](#)
- Solvent tray
- Optional: Computer with Chemstation software
- Cable and connectors



Trade in or Sell your Old Agilent HPLC module to [Labrecycling](#)?

After installation and validation of a new HPLC system, your old laboratory device will be switched off and no longer been used. Labrecycling is nevertheless interested in the amortized, old-fashioned or vintage HPLC systems. When a system can no longer be maintained, Labrecycling propose solutions for its overhaul. Labrecycling can do [trade-in](#) or [buy your Agilent HPLC system](#) equipment for your next purchase, so you can save money.

THE AGILENT 1200 G1311A QUAT PUMP AND KEY FEATURES AND BENEFITS

Agilent 1200 G1311A Quat Pump is a widely used quaternary pump module for high-performance liquid chromatography (HPLC) systems, known for its flexibility in solvent mixing and robust design.

The G1311A pump offers a variety of features that make it suitable for a wide range of analytical and semi-preparative applications:

- **Solvent Flexibility:** Provides access to up to four solvents for isocratic or gradient analysis, which is particularly useful for method development.
- **Pulse-Free Flow:** Utilizes a dual floating piston, in-series design with a servo-controlled variable stroke drive to ensure a virtually pulse-free and stable solvent flow.
- **Durability:** Constructed with robust materials such as stainless steel, titanium, and ceramics to enhance product lifetime and minimize maintenance costs.
- **Wide Flow Range:** Offers a flow range of up to 10 mL/min, accommodating both standard HPLC work and semi-preparative separations.
- **Intelligent Monitoring:** Features Early Maintenance Feedback (EMF) for tracking instrument usage and scheduling preventative maintenance, as well as extensive diagnostics and leak detection capabilities.

Agilent 1200 G1362A Refractive Index Detector (RID) and Key Features, Functionality and Applications

Agilent 1200 G1362A Refractive Index Detector (RID) is a high-performance, universal detector for HPLC systems, primarily used for analyzing substances that do not absorb UV light, such as carbohydrates and polymers.

The Agilent 1200 Series G1362A RID operates as a differential refractometer, measuring the deflection of a light beam caused by differences in refractive index between the sample and reference liquids in an 8 μ L flow cell.

- Optics Temperature Control: Advanced temperature control of the optics unit (from 5°C above ambient to 55°C) provides excellent measurement stability and rapid baseline equilibration.
- Automated Operation: Features automatic purging of the reference flow cell and an automated solvent recycle function, which enhances workflow efficiency and minimizes solvent consumption and warm-up times.
- High Sensitivity: The detector boasts low baseline noise ($< \pm 2.5 \times 10^{-9}$ RIU) and drift, ensuring high sensitivity and reliable results.
- Durability: A self-adjusting light intensity circuit extends the life of the durable tungsten lamp, which has a life expectancy of 40,000 hours according to the user manual.
- GLP Compliance: Includes Early Maintenance Feedback (EMF) for tracking instrument usage, error detection, and automated operational qualification/performance verification (OQ/PV) for good laboratory practice (GLP) compliance.

Applications G1362A RID

The G1362A RID is a universal detector suited for a variety of applications where analytes lack a strong UV chromophore:

- Carbohydrate Analysis: Widely used for the analysis of sugars and carbohydrates.
- Polymer Characterization: It is the detector of choice for gel permeation chromatography (GPC) or size exclusion chromatography (SEC) applications.
- Other Analyses: It is also effective for analyzing triglycerides, organic acids, and pharmaceutical excipients.

Agilent 1200 G1329A Autosampler, Key Features, Functionality and Applications

Agilent 1200 G1329A Autosampler, or Automatic Liquid Sampler (ALS), is a robust and highly precise variable-volume autosampler module for Agilent 1200 Series HPLC systems, designed to automate sample injection for increased laboratory throughput and reliability.

The G1329A is known for its dependability and ease of use in routine laboratory tasks, offering advanced automation capabilities:

- Variable Volume Injections: Offers an injection range of 0.1 to 100 μ L in 0.1 μ L increments, which can be extended up to 1500 μ L with a hardware modification (multiple draw) for applications ranging from microbore to semipreparative chromatography.
- Low Carryover: Features an automatic needle wash system that typically reduces carryover to less than 0.1%, with further reduction to less than 0.05% when using external needle cleaning.
- High Throughput: The injection cycle time is typically around 50 seconds, which, combined with the capability for overlapped injections, significantly increases sample throughput.

- **Sample Integrity:** An optional thermostat module (like the G1330B) can be added to the non-thermostatted version to provide temperature control from 4°C to 40°C, crucial for preserving thermally-labile samples during extended analysis sequences.
- **Intelligent Diagnostics:** Includes Early Maintenance Feedback (EMF) and extensive safety features like leak detection, which alert users to potential issues and help schedule preventive maintenance, minimizing system downtime.

APPLICATIONS AGILENT 1200 G1329A

Due to its precision and reliability, the **G1329A autosampler** is commonly used across various sectors:

- **Pharmaceuticals:** Routine quality control and analysis of drug compounds.
- **Environmental Monitoring:** Used in analyses for regulatory compliance.
- **Food and Chemical Industries:** General analytical chromatography workflows.

The **Agilent 1200 G1329A** is a dependable solution for automating the sampling process, ensuring consistent and reproducible results across many applications

Agilent 1200 G1316A Thermostatted Column Compartment (TCC): Key Features, Functionality

Agilent 1200 G1316A Thermostatted Column Compartment (TCC) is a Peltier-controlled column oven designed to ensure highly reproducible retention times by maintaining a stable thermal environment for HPLC columns.

- **Peltier Temperature Control:** Utilizes Peltier technology for rapid heating and cooling.
- **Column Capacity:** Accommodates up to three 30 cm columns simultaneously.
- **Dual Heat Exchangers:** Features two independently programmable heat exchangers (3 µL and 6 µL internal volumes) for precise solvent pre-heating.
- **GLP Compliance:** Equipped with an automated column-identification module that tracks parameters such as stationary phase, serial number, and number of injections.
- **Expansion Options:** Supports an optional 2-position/6-port switching valve (up to 600 bar) for automated column selection or sample cleanup.

AGILENT 1200 G1379B MICRO VACUUM DEGASSER: KEY FEATURES, FUNCTIONALITY

Agilent 1200 G1379B Micro Vacuum Degasser is a high-performance 4-channel module designed to remove dissolved gases from mobile phases, ensuring baseline stability and flow precision in HPLC systems.

- **Micro-Vacuum Technology:** Features micro-structured membranes with a significantly lower internal volume (approx. 1 mL per channel) compared to older models like the G1322A (~12 mL), leading to faster solvent changeovers and reduced waste.
- **Operating Modes:** Uses a constant-speed vacuum pump with a proportional valve to maintain precise partial vacuum levels. It includes a continuous mode for maximum degassing efficiency.
- **Solvent Compatibility:** Constructed from chemically resistant materials (PTFE, FEP, PEEK) to support a wide pH range of 1 to 14.
- **Applications:** Specifically optimized for low-flow HPLC applications (< 0.5 mL/min), fluorescence detection, and mass spectrometry where dissolved oxygen can interfere with sensitivity.