Agilent

Trusted Answers

Every Sample, Every Day

Operational efficiency for your GC and GC/MS labs
with the Agilent 8890B gas chromatography system

The Agilent 8890B GC system

Drive Your Lab Forward

Maintaining your competitive edge depends on the timeliness and accuracy of the data generated by your instruments and staff. The Agilent 8890B GC system helps your lab rise to the challenge. Representing more than the latest generation of the most reliable, most self-aware GC available, the 8890B combines advanced analytical abilities and multi-method flexibility with reduced downtime, simplified operation, and enhanced sustainability. The result: You can expand your productivity and profitability with every sample, every day.

Performance

If your lab is consistently short on time for daily sample runs, don't waste a single minute. The Agilent 8890B delivers the next level of faster cycle times, so you can maximize sample throughput.

Intelligence

Increasing accuracy and uptime are easier when your system can check for leaks, detect issues, and walk you through repairs. With Agilent GC Assist, the 8890B lets you maintain your GC like an expert.

Sustainability

Reducing waste and conserving resources are no longer optional. The 8890B uses technology to meet sustainability goals and improve efficiency, helping you achieve your desired business outcomes.

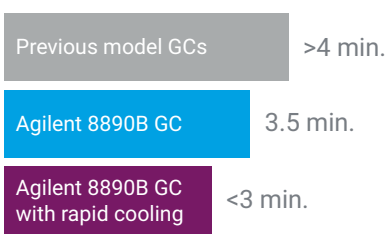
Working together, performance, intelligence, and sustainability expand the boundaries of **productivity** and **profitability**.

Performance that delivers accurate data faster than ever

Getting—and staying—ahead requires accurate identification and quantification, high sensitivity for trace-level analytes, and the specificity to differentiate complex mixtures. The 8890B GC expands upon a proven chromatographic platform, delivering industry-leading performance for reliability, retention time, and repeatability. New time-saving technologies also allow you to run more billable samples.

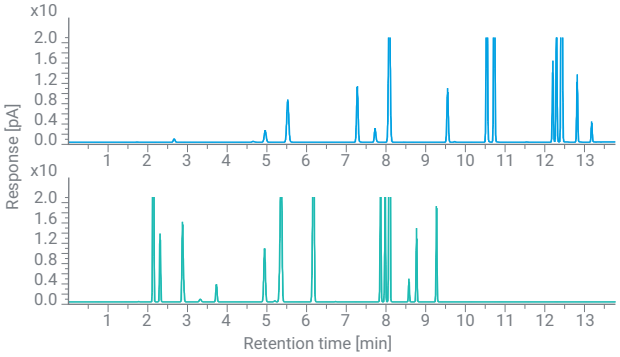
Analyze more samples every day with faster cycle times

The 8890B GC provides faster maximum oven temperature ramps and cooldown rates for conventional dual-channel GC. If you want even faster cycle times, an optional rapid cooling fan is available.

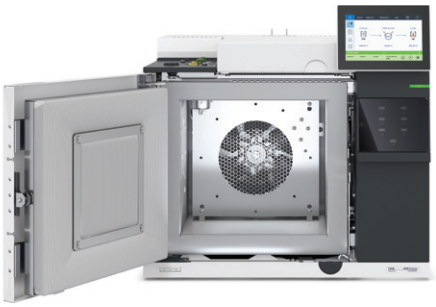


Achieve excellent repeatability across multiple injections

Consistent retention time and area count performance are the cornerstone of what you can expect from the 8890B GC. The system also meets all specifications required for regulatory methods such as USP Method <467> (residual solvents).



Chromatograms for USP 467 Class 2a compounds.



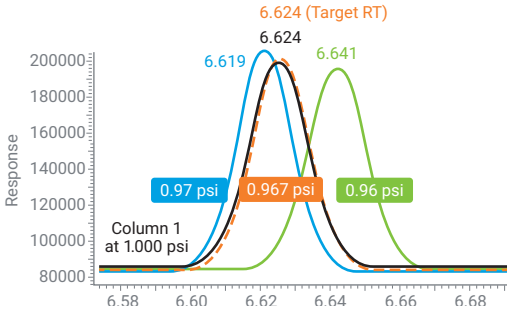
Shine a new light on your connections and components

Make maintenance easier and faster with a built-in oven light that illuminates the internal space on the 8890B GC. That means you can perform tasks like troubleshooting and column installation in less time—and with fewer errors.

Retention time locking (RTL) ensures consistency and seamless method transfer

Standardize your QA/QC measurements between systems in the same lab or at different locations using RTL. Precisely match retention times between Agilent GC systems using the same method and column configurations, ensuring long-term repeatability and retention time consistency.

RTL works by evaluating the relationship between inlet parameters and retention time during three to five reference runs. It then calibrates the system using the results. Later, you can match the original retention times on the locked method by performing a single relocking analysis.

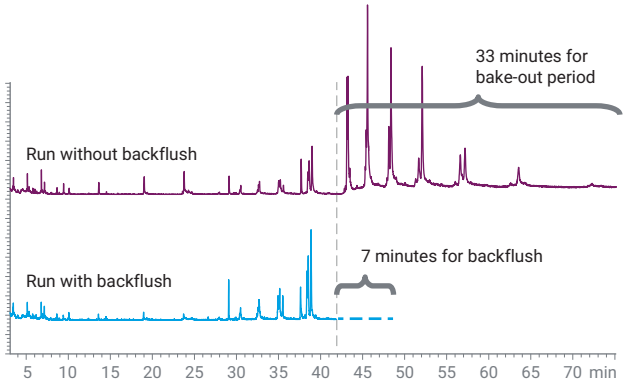


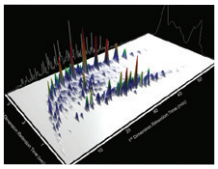
7th-generation EPC and advanced digital electronics set a new benchmark in pressure setpoint precision (to 0.001 psi)—improving RTL precision for very-low-pressure applications.

Boost GC performance with capillary flow technology

- **Backflush** significantly reduces timing between injections, increasing productivity.
- **Purged Ultimate unions** provide leak-free connections, reducing downtime.
- **Flow splitters** enable data collection from up to three detectors.
- **New CFT calculators** let you download calculated setpoints to your method—avoiding time-consuming, error-prone manual input.
- **Multidimensional chromatography:**
  - **Deans Switch** facilitates heart cutting, enabling resolution of trace compound in complex matrices.
  - **GC x GC flow modulation** enables multidimensional chromatography without the need for cryogen.

Learn more about Agilent capillary flow technology.





3D rendering of a D8396 reference jet fuel GC x GC separation analysis using Agilent GC x GC reverse flow modulation and GC Image GC x GC software.

Meet the next evolution of GC separation

The Agilent 8860B GC system combines simplified operation with the proven reliability you expect from Agilent GC systems.

The Agilent 8850 GC system combines intelligence with the smallest, fastest high-performance benchtop GC on the market.

Intelligence that powers productivity

The Agilent 8890 GC ushered in a new breed of intelligent GC systems that monitored system health, alerted you to potential issues, and helped you solve problems. Now, with cutting-edge onboard processors, the 8890B GC is equipped with Agilent GC Assist that guides you in maintaining and diagnosing your GC and MS systems with unprecedented confidence. That means you can reduce downtime, simplify troubleshooting, and shorten turnaround times without sacrificing data quality.

Experience the benefits of GC Assist—intelligent control right at your fingertips

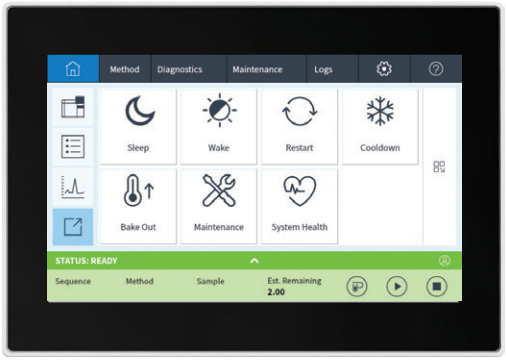
The next-generation touch screen allows you to monitor system health, access diagnostics, and perform maintenance directly at the instrument. Most functions can also be accessed from your tablet, laptop, or PC, so you can keep tabs on your instrument anytime, anywhere.

Home screen
Provides at-a-glance updates on the system configuration and flow path.

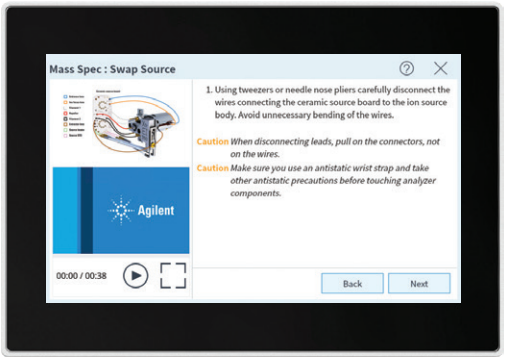
Instrument actuals screen
Allows you to customize and identify frequently used setpoints for quick accessibility.

Plot screen
Confirms that analyses are progressing as intended.

Additional tabs
Give you quick access to key functions such as:
- Methods
- Diagnostics
- Maintenance
- Logs
- Settings
- Help



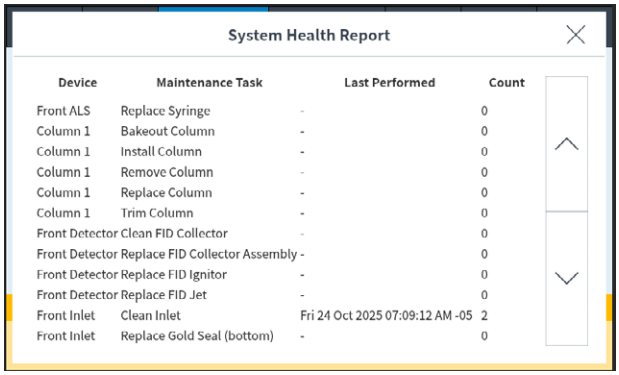
Easy access to shortcuts icons take you to your most common tasks quickly.



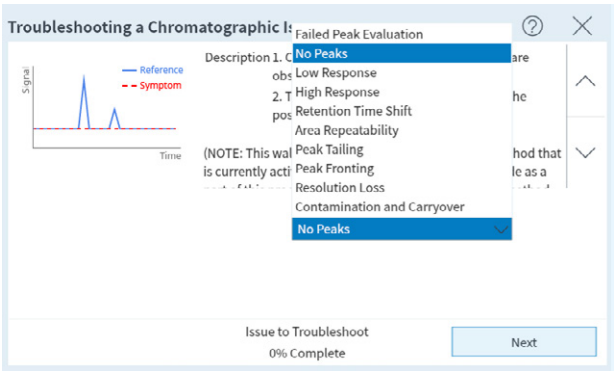
New onboard videos make common tasks as easy as pushing play.

Newly integrated GC Assist interface reduces downtime and keeps you in control

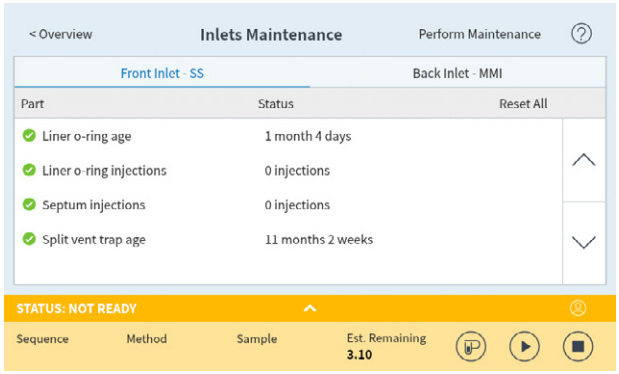
GC Assist enhances next-level capabilities for maintenance and diagnostics.



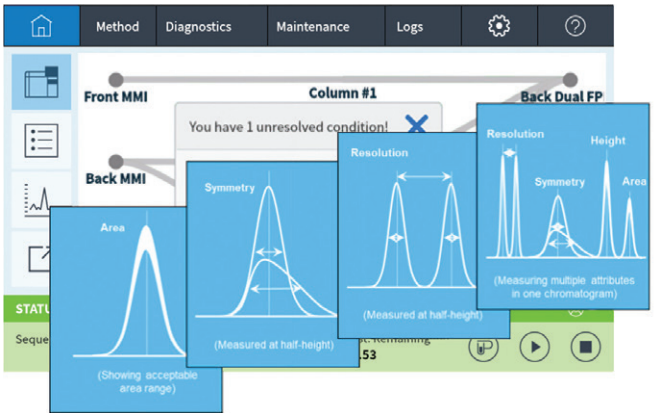
The GC Assist System Health Report delivers a consolidated, real-time snapshot of instrument configuration, operating status, maintenance needs, and diagnostic results to support proactive maintenance and faster troubleshooting.



The troubleshooting capabilities of the 8890 GC combines continuous system monitoring with guided diagnostics and actionable alerts to help users quickly identify the root cause of issues. It not only detects problems early through automated checks, but also provides step-by-step diagnostic guidance and recommended actions directly on the instrument interface.



Early maintenance feedback (EMF) is a built-in predictive maintenance feature that tracks the usage and condition of key consumables and components. EMF provides advance notification of when maintenance is likely needed, rather than waiting for a failure to occur.



Confirm that your GC/MS chromatography is performing as expected. Diagnostics for peak evaluation of GC detector data allows you to analyze retention time, area, height, and symmetry for targeted peaks. By trending and reporting these results over time, these diagnostics enable users to quickly verify system performance and detect problems before they impact analytical results.

End-to-end diagnostics maintain system health and maximize uptime with GC Assist

Unexpected instrument downtime disrupts lab operations, especially if you don't know the source of the problem. The 8890B monitors its own vitals, giving you a real-time view of system health.

System health features:

- User-initiated diagnostic tests
- Automatic diagnostic tests
- GC health parameters monitoring
- Self-guided diagnostic troubleshooting
- Early maintenance feedback (EMF) counters
- GC performance monitoring
- Self-guided maintenance procedures

Other features:

- Enhanced method diagnostics
- Storage of results
- Improved help guides

Partnering for sustainability and business success

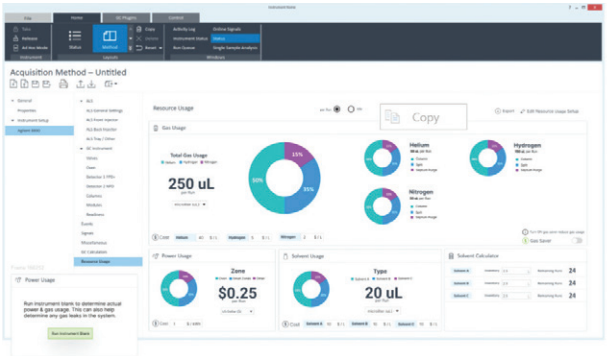
Sustainable thinking transforms the way researchers, scientists, and manufacturers approach their products, processes, and supply chains. However, it can be a challenge for labs to reduce their environmental impact while continuing to optimize workflows and lower costs.

Labs with GC and GC/MS systems have unique sustainability challenges due to the resource-intensive nature of these instruments. The 8890B guides you toward more sustainable practices with new resource management capabilities.

Monitor resources and improve profitability with new gas and power usage reporting

With sustainability goals now central to laboratory operations, teams increasingly need clear visibility into how instruments and resources are utilized. The 8890B GC features integrated resource management tools—that you can access in seconds from the touch screen or browser interface—to optimize gas consumption, extend consumable life, and minimize your lab's environmental footprint.

Gas and power usage trend charts let you see the effects of gas use during idle, sleep/wake methods, and system shutdown.



Method-based gas, solvent, and power monitoring alerts you to potential waste. For example, if your actual gas use is 10% higher than predicted, a pop-up will warn you of a potential gas leak. You will then be led through a leak and restriction maintenance procedure.

Prevent disruptions and protect our planet by managing your helium use

Helium has long been the carrier gas of choice for GC and GC/MS analyses. However, the global helium shortage has reduced the availability—and increased the cost—of helium gas, jeopardizing the day-to-day operations of labs that depend on gas chromatography. Here are some strategies for conserving helium and converting to an alternative carrier gas.

Helium conservation module

Extend the life of your helium tanks by up to 30 times. The Agilent helium conservation module allows you to use helium for your GC runs and switch to a different gas (typically nitrogen) when your GC is idle. That means you can achieve better control of laboratory operating expenses and avoid workflow disruptions.

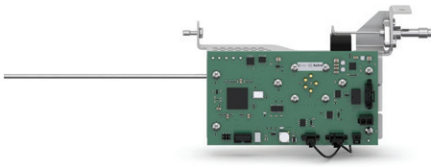
Alternative carrier gas support

Alternative carrier gases like hydrogen and nitrogen are popular low-cost options.

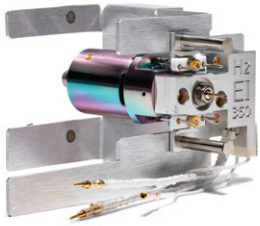
The Agilent Hydrogen Sensor Module Series 2 option adds built-in peace of mind when operating with H_2 gas.

The Agilent HydroInert source minimizes sensitivity loss and spectral anomalies associated with H_2. It also:

- Maintains spectral fidelity, even for compounds highly susceptible to hydrogenation.
- Improves peak shape for high-boilers, especially polycyclic aromatic hydrocarbons (PAHs).



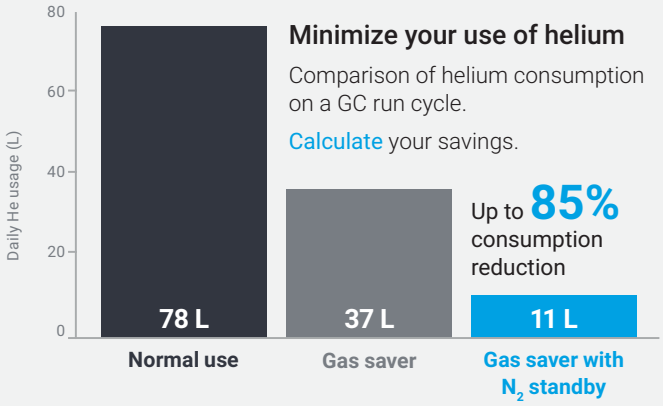
Agilent Hydrogen Sensor Module Series 2



Agilent HydroInert source

Resources to help conserve or convert your GC/MS carrier gas

- Handle the Hassles of the Helium Shortage
- Helium Conservation Cost Savings Calculator
- Agilent EI GC/MS Instrument Helium to Hydrogen Carrier Gas Conversion User Guide
- Agilent Hydrogen Safety Manual



At Agilent, we believe that intelligence, productivity, and sustainability are interlinked

Working toward sustainability is an integral part of how we conduct business and respond to our customers' challenges. Together, we can help your lab achieve its sustainability goals—while increasing output, maintaining accuracy, and staying competitive.

Partnership with My Green Lab

Agilent has joined with My Green Lab to have our instruments independently audited for their Accountability, Consistency, and Transparency (ACT) label. ACT labels provide information about the environmental impact of manufacturing, use, and disposal of a product and its packaging, so purchasers can make informed, sustainable choices. Agilent 8860, 8890, and 8850 GC systems have been comprehensively evaluated and have earned ACT labels.

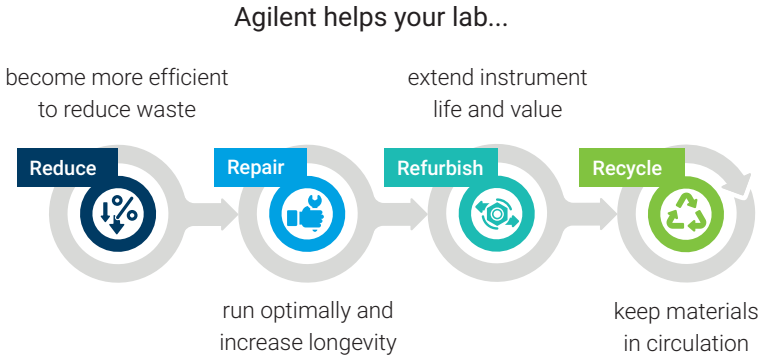
my green lab. ACT® Ecolabel

Trade-in and Buyback

The Agilent Trade-in and Buyback Program covers everything from deinstallation, shipping, packaging, and customs fees—free of charge. The program is available in over 20 countries and uses reusable return packaging where possible. You may also get cash or credit for returned instruments.

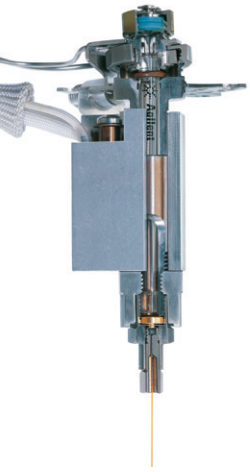
Waste reduction strategies for lab instruments

Building a more sustainable laboratory can feel overwhelming. Agilent offers a range of programs and services to help labs reduce resource consumption and minimize waste. From relocation and repair to trade-in, recycling, and reuse programs, these solutions support a more sustainable lab environment by extending instrument life and enhancing operational efficiency—all while advancing circular economy principles.



Maximize your investment with an ecosystem of supplies, software, and support designed to ensure your entire analytical workflow operates at peak potential.

Meet all your analysis needs with flexible GC configurations



Inlets

Optimize your system with a wide inlet selection:

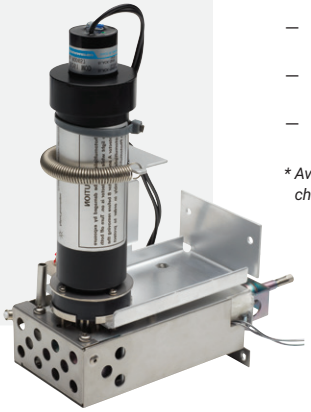
- Split/splitless (SSL) capillary
- Inert flow path split/splitless (ISSL) capillary
- Multimode inlet (MMI)
- Purged packed injection port (PPIP)
- Programmable cool on-column (PCOC)
- Cool on-column with solvent vapor exit (COC-SVE)
- Programmable temperature vaporizing (PTV)
- Volatiles interface (VI)
- High-pressure gas sample injection
- Gas sampling valve (GSV)
- Liquid sampling valve (LSV)

Maximize flexibility and throughput

The Agilent 8890B GC accommodates up to four detector controls and supported sampling valve configurations. It can also collect signals from all four detectors simultaneously:

- FID
- TCD
- NPD
- FPD/Dual FPD
- SCD/NCD
- ECD

What's more, new 6th-generation EPC design—with a core architecture unique to Agilent—allows you to configure up to eight EPC, PCM, and PSDs on an 8890B GC.



Detectors

High-sensitivity detectors accommodate every sample type:

- Mass selective detector (MSD)
- Triple quadrupole MS
- Quadrupole time-of-flight (Q-TOF)
- Triple quadrupole ICP-MS
- Flame ionization detector (FID)
- Thermal conductivity detector (TCD)
- Micro-electron capture detector (Micro-ECD)
- Flame photometric, single- or dual-wavelength detector (FPD)
- Nitrogen-phosphorus detector (NPD)
- Sulfur chemiluminescence detector (SCD)
- Nitrogen chemiluminescence detector (NCD)
- Gas vacuum ultraviolet detector (VUV)
- Atomic emission detector (AED)*
- Pulsed flame photometric detector (PFPD)*
- Photoionization detector (PID)*
- Electrolytic conductivity detector (ELCD)*
- Halogen specific detector (XSD)*
- Oxygenate flame ionization detector (O-FID)*
- Pulsed discharge helium ionization detector (PDHID)*

** Available through Agilent channel partners. Contact Agilent for custom configurations and channel partner solutions.*

External valve oven expands your gas sampling options

The Agilent large valve oven (LVO) for GC is a versatile, high-capacity external oven that you can configure to support complex, multivalve GC applications. That means you can implement multiple ASTM and EN methods on a single GC system—with a smaller laboratory footprint.

In addition, the LVO provides a homogeneous isothermal environment for up to six valves, plus open access for maintenance, adjustment, or customization. Accessibility, capacity, and thermal uniformity make the Agilent LVO well suited for combining multiple analyses on a single GC platform. Other advantages include:

- Easy maintenance and servicing
- Configurable analyzers
- Six valve positions plus two micro-valves, with a maximum 14-port valve
- One heated GC zone with optional valve configurations

Analyzers

More than just instruments, Agilent GC and GC/MS analyzers are complete workflow solutions. They incorporate innovations—such as capillary flow technology and target compound databases—that optimize your system for your unique application.

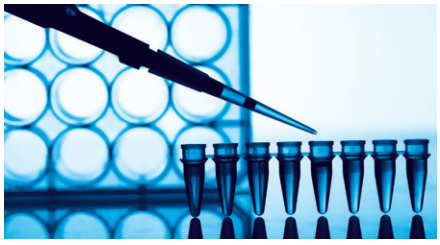
Each analyzer arrives ready to perform with preset chromatography and checkout samples to verify separation capabilities. Your team can work toward system validation when installation is complete—and significantly reduce your method development costs. And as always, our support team is available should any problems arise.

Energy and chemical GC analyzers

Gas impurities measurements GC analyzers

Dissolved gas GC analyzers

Environmental GC analyzers



Forensic GC analyzers

Pharmaceutical GC analyzers

Agilent autosamplers: The perfect partners for the 8890B GC

Agilent autosamplers eliminate manual errors and provide unmatched reproducibility during sample injection. From smaller runs of up to 16 samples to larger runs of up to 150 samples or more, there's an autosampler that will keep you on track and on time.

7693A ALS
16/150-vial capacity

Inject new performance into your GC
Agilent 7693 Series automatic liquid sampler (ALS)

With the fastest injection time of any GC autosampler, the Agilent 7693 Series ALS virtually eliminates thermal discrimination. It minimizes variability and manual errors with enhanced capabilities—such as 3-layer sandwich injections, heating, mixing, and barcode reading. What's more, its modular design lets you upgrade from 16 vials to 150 vials as your lab expands.

Intermediate vial capacity with high precision
Agilent 7650A automatic liquid sampler (ALS)

For labs that process fewer than 50 samples per day, the robust Agilent 7650A ALS maximizes sample throughput. It provides the same high-speed injection as the 7693 Series ALS to virtually eliminate thermal discrimination. Plus, it includes the enhanced sampling capability of 3-layer sandwich injections.

7650A ALS
50-vial capacity

PAL3 Series 2 autosampler

Boost output with advanced sample preparation capabilities
PAL autosampler systems

The versatile PAL3 Series 2 platform is easily configured for liquid injection and offers large-volume injection (LVI), multiple vial sizes, and extended sample vial capacity. It is ideal for liquid injection, headspace, and solid-phase microextraction (SPME) applications.

Automatically introduce volatile compounds from almost any sample matrix
Agilent 8697 headspace sampler

Agilent 8697 headspace samplers are easy to learn, use, and maintain. They integrate directly with Agilent 8890, 8850, and 8860 GCs, so they can expertly guide users through the tasks required to keep the whole system running optimally. These tasks include automatic leak checks, guided troubleshooting, downloadable system logs, retention time and resolution charting, and consumables tracking.

8697 headspace sampler
48/120-vial capacity

Achieve ultimate confidence in detection and identification with mass spectrometry compatibility

The 8890B GC is fully compatible with Agilent single quadrupole, triple quadrupole, and Q-TOF systems.

Discover the possibilities

Agilent 5977C GC/MSD

Designed to provide robust, day-in, day-out performance with mass spectrometry compatibility. The 8860B is fully compatible with an Agilent single quadrupole system, like the 5977C GC/MSD.

Reach a higher plane of productivity

Agilent 7000E triple quadrupole GC/MS

Do you perform multiclass, multiresidue analysis in challenging matrices? The Agilent 7000E GC/TQ gives you the answers you seek with unequivocal robustness. Built-in instrument intelligence—including smart diagnostics and monitoring—reduces downtime and simplifies operations.

Go beyond all limits

Agilent 7010D triple quadrupole GC/MS

Shatter the boundaries of performance with the Agilent 7010D GC/TQ. HES 2.0 ion source technology enables ultratrace-level detection limits, while heated gold quadrupoles deliver unparalleled results with remarkable uptime.

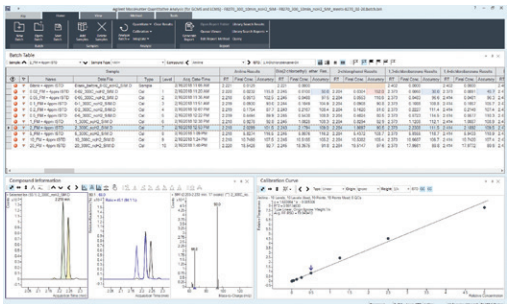
Identify. Quantify. Simplify.

Agilent 7250 GC/Q-TOF system

The all-in-one Agilent 7250 GC/Q-TOF system, together with comprehensive Agilent MassHunter software, provides you with timely, confident answers for your toughest identification, quantification, and exploration challenges.

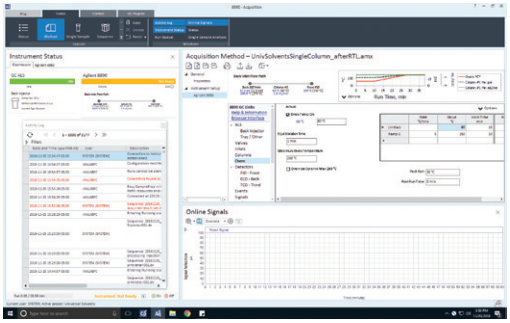
A complete GC workflow that ensures precision without pressure

In a world of evolving regulations and tightening deadlines, you need more than just hardware. You need a workflow that accelerates your next move. Leverage five decades of analytical innovation to ensure your lab stays compliant, connected, and completely in control.



Streamline operations and boost productivity
Agilent MassHunter software

- Enable powerful data collection, processing, and reporting.
- Breeze through application-specific workflows with comprehensive GC and GC/MS support.
- Use one software platform for all Agilent GC and GC/MS instruments, including single quadrupole, triple quadrupole, and GC/Q-TOF.
- Analyze complex samples—including environmental and food matrices—with compound-based analysis and reporting workflows that use MassHunter Quantitative Analysis with Quant-My-Way customization.
- Simplify data analysis with powerful application-specific software, such as retention-time locked MS libraries, MRM databases, and high-resolution personal compound database and libraries.



Capture, analyze, and share data
Agilent OpenLab CDS

- Optimize LC, GC, and single quadrupole MS workflows on Agilent and non-Agilent LC/GC instruments.
- Quickly onboard staff with easy-to-use software and intuitive Help and Learning.
- Maintain quality and reliability with role-based access controls and comprehensive audit trails.
- Speed data review by visualizing large data sets with Peak Explorer.
- Identify out-of-spec results with visual highlights in customized reports.
- Automate time-consuming tasks by integrating Sample Scheduler for OpenLab with your LIMS.

With Agilent columns, supplies, and services, you get more than just products

You also benefit from stringent Agilent specifications and consistent quality, enhancing the sensitivity and performance of your instrument. Agilent is your one-stop source for consumables that let you assemble complete solutions for every application. What's more, comprehensive workflow guides capture the experience and expertise of the Agilent team.

GC columns

Agilent J&W GC columns deliver the lowest bleed levels, highest inertness, and tightest column-to-column reproducibility. A wide choice of 5" capillary and packed metal columns is available to suit your every need. Learn more

Nonstick BTO inlet septa

Preconditioned, bleed temperature optimized (BTO) septa are designed to sustain inlet operating temperatures up to 400 °C without risk of flow path contamination. Learn more

Ultra Inert gold-plated GC inlet seal

Eliminate leaks at split/splitless injection ports, improving sensitivity and prolonging column life. Learn more

Graphite/Vespel column ferrules

Combining the material properties of high-performance polyimide and graphite, these ferrules resist deformation and prohibit oxygen intrusion into the flow path. Learn more

Ultra Inert inlet liner

These inert liners feature a proprietary deactivation process that eliminates potential active sites located throughout the interior of the liner. Learn more

Gas Clean filter kit

Reduce column damage and sensitivity loss. Gas Clean filters ensure a contaminant-free gas line, and smart sensors alert you when filters are saturated and need replacing. Learn more

ADM Flow Meter and electronic leak detector

The two most critical GC flow path monitoring tasks are combined into a single hand-held cartridge system. Learn more

GC autosampler syringes

Durable syringes feature a specialized plunger head that aligns with the sampler's stroking mechanism to improve injection accuracy and improve plunger longevity. Learn more

Self Tightening column nuts

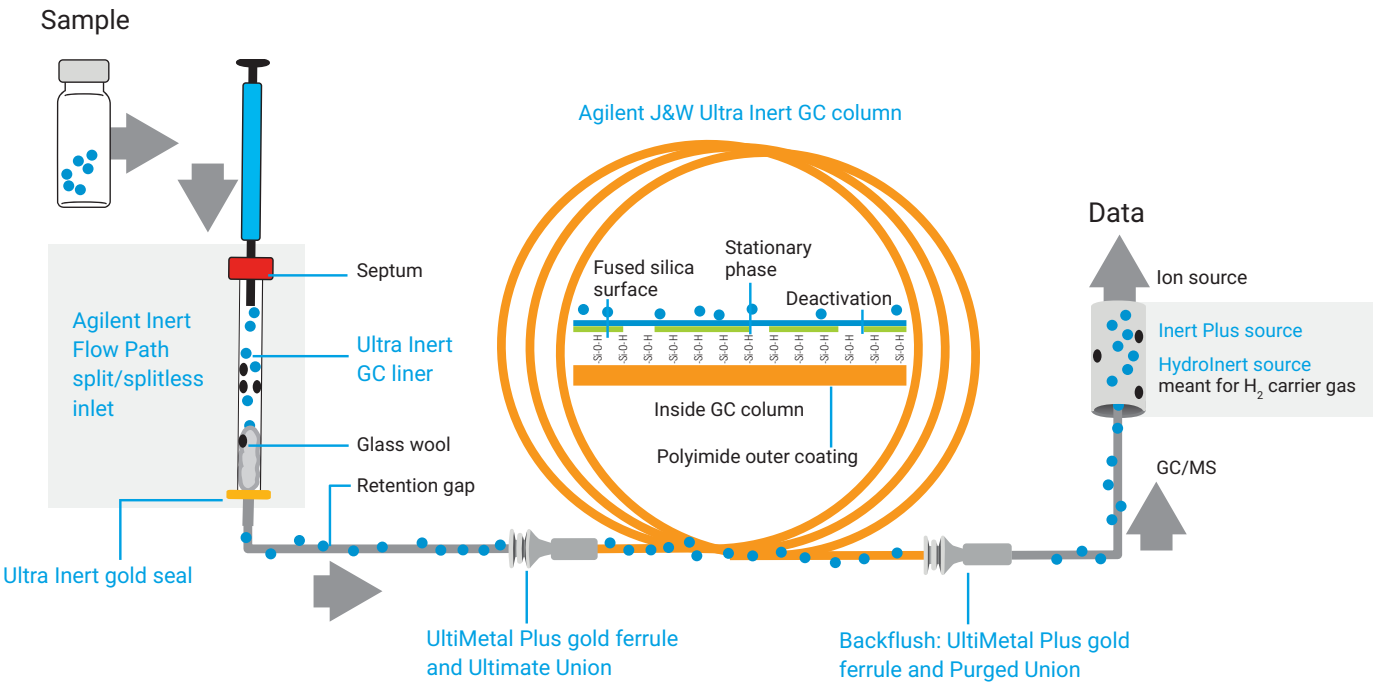
An innovative design makes these column nuts especially well-suited for oxygen-sensitive detectors such as MS and ECD. Their tight connection remains leak free even after hundreds of injections. Learn more

Genuine replacement parts for Agilent detectors

Minimize background interference, low signal counts, and response changes while maximizing performance, signal output, and uptime. All parts are backed by the Agilent service agreement—plus a 90-day warranty from the date of shipment. Learn more

Ensuring an inert flow path has never been more critical

As samples become smaller, increasingly active, and more complex, you cannot afford losses caused by flow path activity. Having to repeat or verify suspect analyses wastes valuable resources, hinders productivity, and hurts your bottom line. With trace amounts of active analytes, you might not even get a second chance because there may be no more sample left to analyze.



Don't miss a thing in your GC/MS analysis

From analyzing active environmental samples to screening for drugs of abuse, Agilent Inert Flow Path solutions help ensure higher analytical sensitivity, accuracy, linearity, and reproducibility.

Put our insights to work for you

Agilent CrossLab
From Insight to Outcome

CrossLab is an Agilent capability that integrates services and consumables to support workflow success, improve productivity, and enhance operational efficiency. In every interaction, we strive to provide insight that helps you achieve your goals. We offer a wide range of products and services—from method optimization and training to full-lab relocations and operations analytics—to help you manage your instruments and your lab for best performance.

Learn more about Agilent CrossLab services.

New to Agilent GCs? Transitioning from the Agilent 6890 GC?

When it comes to adding new instruments to your lab, no two experiences are quite the same. We're here to help you succeed with flexible service and support options.

Agilent CrossLab installation

Agilent CrossLab installation ensures that all hardware and relevant software are unboxed and installed properly. An Agilent expert will make sure your new GC system is free from defects and missing items, tested against manufacturing specifications, and ready for operators to begin training.

Agilent CrossLab Method Consulting Services and Agilent University

Method consulting services offer Agilent expertise to customers looking to improve and expand their lab workflows. They consist of four key products: method maintenance, method optimization, method implementation, and method development.

Agilent University offers flexible, cost-effective training options to help you boost efficiency, minimize downtime, and make a stronger impact on your lab's success. Choose the training format that suits you best—including in person, virtual, and online.

Agilent CrossLab service plans

Agilent CrossLab service plans, on-demand repairs, and preventive maintenance services help you maintain productivity and minimize downtime.

Agilent CrossLab Connect Smart Alerts

Agilent CrossLab Connect Smart Alerts gives you key insights into instrument health—reducing unplanned downtime and sustaining instrument performance for optimal throughput. As part of CrossLab Connect, Smart Alerts notifies you the instant an instrument stops running and when it's time to perform preventive maintenance or replace key consumables.You can also send a service request directly to Agilent using the Remote Assist feature.

The people behind your service and support

Agilent CrossLab connects you to a global network of experts who strive to deliver insight in every interaction to support your success. From instrument maintenance and repair, relocation and inventory management services, to compliance and software solutions, or consulting and education, Agilent CrossLab is here to help protect your Agilent and non-Agilent instruments. So you can transform your laboratory operations in the best ways possible.

Here's what sets CrossLab service engineers apart

10 years
Average instrument repair experience

96%
Parts available right away

Millions
Parts accessible at our world-wide logistics centers

85%
Repairs fixed during first visit

30,000
Technical training days

>1,850
Field service engineers worldwide

50+
Technology platforms covered

1–2 days
Typical turnaround time for priority service calls

Promising 10 Years of Value

The Agilent Value Promise reflects the utmost confidence in our unrivaled industry standards for quality system design and manufacturing.

From the date you purchase select Agilent chromatography, spectrometry, and spectroscopy instruments, we guarantee at least 10 years use or residual-value credit toward an upgraded replacement. Because we stand behind our systems, our guarantee maximizes your return on investment by ensuring your purchase is safe.

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