An Easy-to-Use, High Throughput GC
The Varian 3900 GC for routine operation

Simplified routine operation—keypad icons make instrument control intuitive.

Small footprint—occupies less than half the bench space of a conventional GC.


Today’s analytical laboratories require simple, reliable, and cost-effective gas chromatographs for greater accuracy and throughput. The Varian 3900 GC meets these demands in a new small, easy-to-use platform.

The icon-based keypad simplifies daily operation and speeds up operator training. Autoinjectors and autosamplers offer reproducible results, high sample throughput, and unattended operation. The roll-back cover provides convenient injector and detector access, eliminating lengthy downtime during routine maintenance.

The single channel 3900 GC occupies 12.5 inches/31.8 cm, less than half the bench space of one dual-channel GC. With two 3900 GCs running the same, or different, applications simultaneously, you increase laboratory productivity without sacrificing precious bench space!

Quick Start Applications launch routine methods from the desktop with minimal data entry. Reports specific to your application are easily created with Star Custom Report Writer. Report generation can be automated for around-the-clock monitoring.

The 3900 GC from Varian—ideal for today’s analytical laboratory conducting routine analyses.
**Universal keypad**
- Complete method editing and control in a simplified user interface
- Icon-based keypad maximizes operator efficiency
- Password protection locks keypad against unauthorized access

**Automation**
- CP-8410 AutoInjector and CP-8400 AutoSampler for reliable automated injections
- Predefined modes of injection for quick and easy set-up
- Multiple syringe options for liquid and ambient headspace injections

**Injector**
- CP-1177 Split/Splitless Injector with optimized flow profile
- Electronic Flow Control (EFC) of carrier gas and split flow for maximum performance
- Optimized EFC for purge and trap and headspace configurations

**Column oven**
- Front access column oven designed for standard 7 inch/17.5 cm diameter columns
- Autosampler remains in place for easier routine maintenance
- 450 °C temperature limit for high temperature applications

**Detector**
- Flame Ionization Detector (FID) with patented ceramic flame tip for ultimate sensitivity
- EFC for quick set-up of all detector gases
- Automatic flame re-ignition assures continuous operation

**Simplified PC control**
- Simple interface for easy method building and data acquisition
- Quick Start helps create and launch routine applications from the desktop
- Password protection eliminates unauthorized data access and method editing

**Routine report templates**
- Star Workstation Custom Report Writer for easy report template creation
- Drag and drop icons for quickly creating reports
The Varian 3900 GC simplifies every aspect of routine analysis.
• Color icons on keypad with local language display
• Predefined modes of injection for convenient automation
• Flash memory for downloading future hardware drivers and upgrades through the internet
• Password control locks keyboard to protect method integrity

The 3900 GC is available without the keypad for ultimate security. All operating parameters are then controlled through the Star Workstation and cannot be modified at the instrument.

Future upgrades. Quickly upgrade to the newest software through the internet with Flash ROM memory.
Outstanding Performance
With easy maintenance

The Varian 3900 Gas Chromatograph incorporates the same outstanding EFC, injector, detector, and automation hardware as the full-featured Varian CP-3800 GC.
- Complete EFC for both injector and detector gases
- The CP-1177 Split/Splitless Injector provides optimal performance for liquid samples
- The Varian FID with its ceramic flame tip maintains an inert metal-free sample path for superior hydrocarbon response
- CP-8410 AutoInjector is unmatched in flexibility with a fixed sample tray supporting multiple vial sizes
- CP-8400 AutoSampler provides around-the-clock automation for up to 100 samples

Roll-back cover. The new roll-back cover provides complete and easy access to both injector and detector for routine maintenance.

Standard capillary columns. Use your existing columns with the compact oven of the 3900.

<table>
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<th>Time (min)</th>
<th>Std Dev</th>
<th>% RSD</th>
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<tbody>
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<td>0.0385</td>
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<td>38.760</td>
<td>0.008</td>
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</table>

The 3900 GC can be controlled from virtually anywhere in the world through industry-standard Ethernet 10Base-T.

- Instrument communication utilizing standard network protocols (TCP/IP)
- PC workstation control and data handling for up to four Varian GCs
- Create Quick Start desktop icons for each sample type or method used in your laboratory
- Set levels of user access through the Star Workstation Security Administration program

Varian’s Star Workstation streamlines setup, operation, and reporting for all your routine applications.

**User-Friendly Star Workstation PC Control**

**Full-featured workstation with a simple interface**

**Security**

Password protection eliminates unauthorized data access and method editing.

**System Control**

System status and data acquisition are all viewed in a single window.
Routine Analysis
With minimal operator intervention

Using the Star Toolbar, lab supervisors can build Quick Start Applications with sample-specific methods for GC control and data handling. These Quick Start applications are selected through desktop icons with minimal data entry by operators. It is easy to switch between routine analyses with Quick Start.

Quick Start takes the guesswork out of daily operation improving laboratory productivity for both manual and automated injections.

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**Star Toolbar**
Build methods with one-click access to any Star Workstation application.

**Quick Start**
Launch routine methods using Quick Start icons on the desktop.

**Quick Start Desktop Icons**
Flexible Reports
Easy to create and automate

A wide array of standard report formats are available through Varian’s Star Chromatography Workstation. Reports may be printed in a variety of formats or archived as ASCII files.

Star Custom Report Writer lets you create custom report templates for applications with specific reporting requirements. Link Custom Report templates to method sequence files for automated processing and unattended operation.

Standard and custom reports with minimal effort!

**Custom Report Creation**
Drag multiple icons into the template field and create custom reports immediately.

**Custom Report Writer**
Custom reports present data in formats tailored to your specific requirements.
Varian Chromatography and Spectroscopy Supplies
Performance, Selection, and Value

Varian’s 50-plus years of continuous innovation in analytical instrumentation assures you the best in high performance products. Varian is committed to providing analytical products and supplies at affordable prices supported by superior customer service.

To maximize 3900 GC performance, select the best value in analytical supplies ranging from sample vials and sample preparation products to CP-Sil Low-Bleed capillary columns. Call today to request your free Varian Chromatography and Spectroscopy Supplies catalog.

**Varian injector septa and liners.** Products proven to deliver high performance in demanding environments.

**Autosampler and autoinjector vials.** Vials with septa manufactured from materials specifically designed to minimize GC contamination.

**CP-Sil Low Bleed Capillary Columns with EZ-GRIP.** Low column bleed means higher precision, especially for trace analysis. EZ-GRIP makes column installation quick and simple.

**CP-Gas Clean Filters.** Extremely efficient filters remove moisture and oxygen to extend column life and improve system performance.
Varian Analytical Instruments
serving worldwide markets in:

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Basic Chemical
Biotechnology
Clinical
Electronics
Environmental
Photonics
Toxicology
Pharmaceutical
Food and Beverage
Metals and Mining
Petroleum and Petrochemical

Varian is committed to a process of continuous improvement which demands that we understand and then meet or exceed the needs and expectations of our customers—both inside and outside the company—in everything we do.

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