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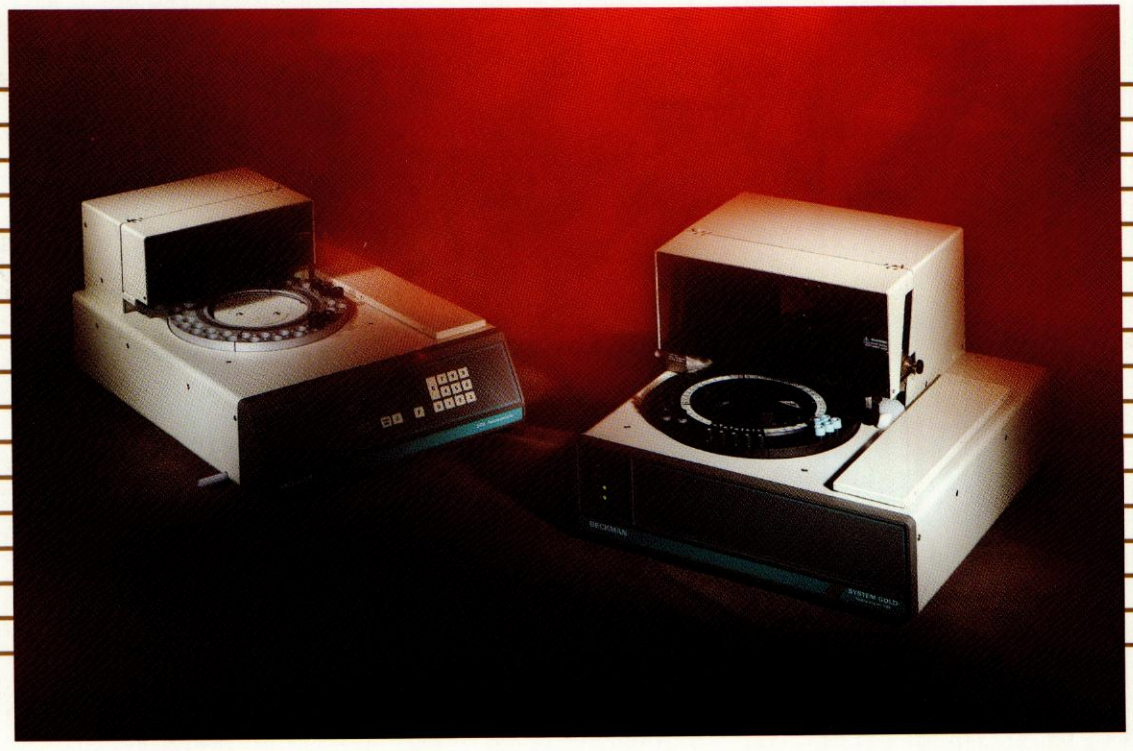
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# 502 And 507 Autosamplers



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# Precision HPLC Autosamplers You Can Rely On.

Both the 502 & 507 autosamplers can be counted on for precision – day after day, year after year, from your first to your 15,000th sample *and beyond*. A built-in column compartment, with optional temperature control, insulates your column from lab temperature fluctuations, ensuring reproducible results.

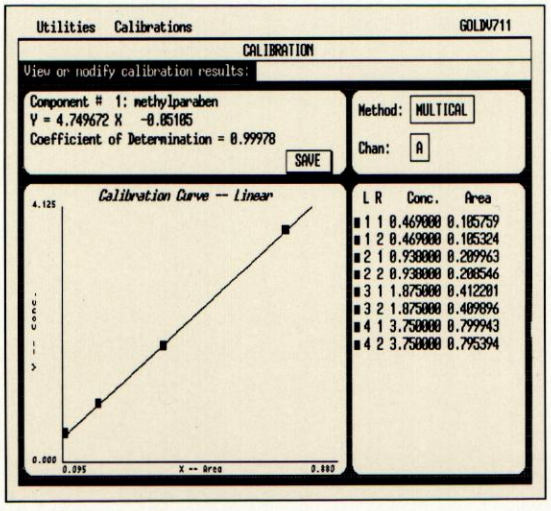
## Smart Autosamplers Integrated Into Gold Software.

*Productivity and Automation.*

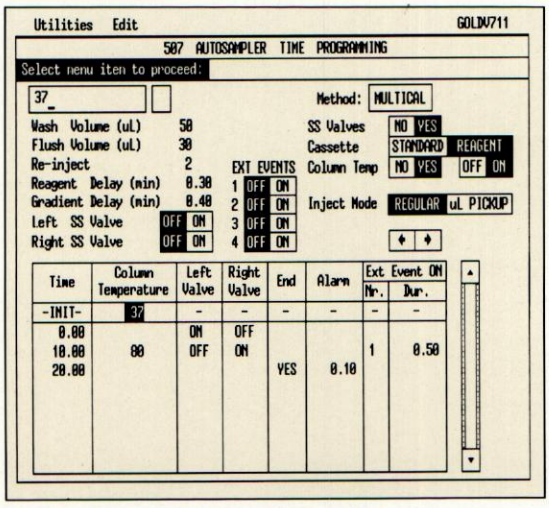
- All 502 & 507 functions can be PC controlled
- Automatic reinjection of out-of-range samples
- Monitors your calibrations and can rerun failed standards
- If system is not 'suitable', autosamplers can shut down or take corrective action
- Selective vial access for sampling versatility
- Tray quadrants allow sample loading while samples are running
- Programming templates make the 502 & 507 autosamplers simple to use
- Optional keyboard control provides stand alone operation for either autosampler

## Validation/Sample Integrity.

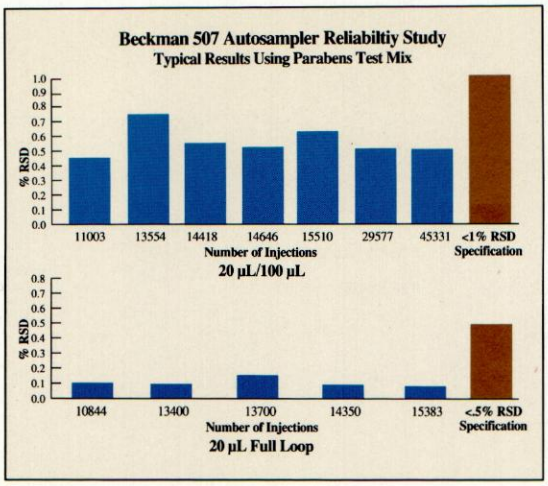
Your HPLC sampling parameters are created as part of a complete method and stored with your chromatographic data in a comprehensive analysis record, making the 502 & 507 ideal for GLP compliance. An optional sample tray cooling ring helps keep labile samples cool or elevate sample temperature to keep samples in solution.



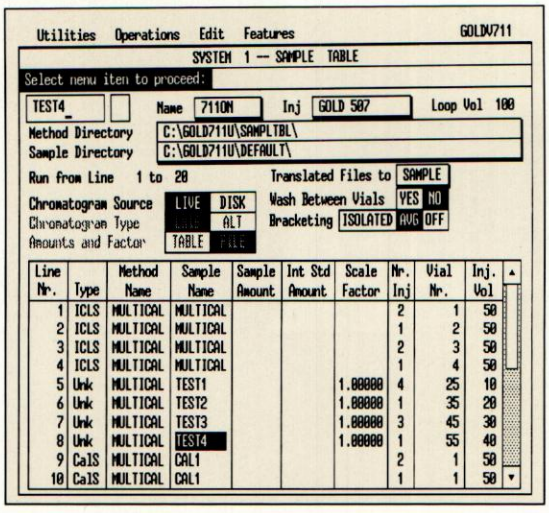

***Calibration Linearity***
*Linearity of 5, 10, 20, and 40 µL injections using a 507 Autosampler in Partial Loop mode demonstrates the superior injection accuracy (100 µL Loop and 50 µL flush before first injection).*




***507 Time Programming Screen Within Method***
*With Gold Software the Autosampler time program can be saved on disk as part of a complete HPLC method and recalled when needed. All parameters can be accessed from a central PC.*




***Reliability Test***
*Reproducibility for injection modes is consistent and well within specifications even after 15,000 injections.*




***Sample Table Screen***
*Gold Software sample table controls the injection sequence. Number of injections, injection volume and vial can be "mixed and matched" with different analysis methods.*

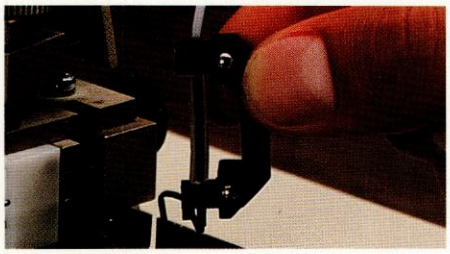
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## The 507 Autosampler

*Designed for the Researcher.*

For the methods development lab where versatility as well as automation is vital, choose the 507 Autosampler. Up to 96 sample vials can be loaded into four separate tray quadrants. Injection volume is programmable and you can even choose the sample conservation mode when injecting micro sample volumes. For even greater flexibility, several options are available:



*The solvent delivery cassette of the 507 can be easily interchanged with an optional Reagent Addition Cassette that mixes an external reagent with the sample just prior to injection.*

- Stream Switching Valves make column switching, column regeneration, sample clean-up, heart cutting, and solid-phase extraction easier, faster and more precise
- Cassette that allows a reagent or standard to be mixed with the sample prior to injection
- Column heating
- Sample cooling/heating ring

## The 502 Autosampler

*Built for QC and Routine Analysis Labs.*

Once the method is developed, the economical 502 is the workhorse of choice for the Quality Control Lab. With a 92-vial capacity, and highly reliable filled loop injections, user intervention is minimal and productivity is maximized. Options available for the 502 include:

- Large Capacity Sample Tray accommodates 48 (4 mL) vials for semi-prep applications and increases the maximum injection volume to 2 mL for greater throughput
- Column heating
- Sample cooling/heating ring




### 507 Module

- **A** 3 injection modes: Filled-Loop, Partial-Loop, Sample Conservation Mode.
- **B** 96-Vial capacity in four quadrants, plus separate vial for needle rinse liquid.
- **C** Reproducible injection volumes – as good as <0.5% RSD.
- **D** Built-in column compartment with optional programmable heating.
- **E** Stream switching valves (optional).
- **F** Reagent Addition Cassette (optional).
- **G** Sample tray heat exchanger (optional).
- **H** Optional front panel keyboard for stand-alone use (not shown).
- **I** 30 mL wash reservoir.

### 502 Module

- **A** 92-Vial capacity with 4 wash vials.
- **B** Filled-Loop sample injection.
- **C** Built-in column compartment with programmable heating option.
- **D** Optional large sample vial kit for injection volumes up to 2 mL.
- **E** Optional front panel keyboard for stand-alone use (as shown).

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| Specifications | 507 Autosampler | 502 Autosampler |
|---|---|---|
| **Injection Size** | Filled-Loop: 10-999 µL<br>Partial-Loop: <50% Loop Volume<br>Sample Conservation Mode: <40% Loop Volume | Filled-Loop: 10-999 µL<br>up to 2000 µL with Large Sample Vial option |
| **Loop Fill (Rate)** | Digital Dispenser (1µL/sec) | Digital Dispenser (2 µL/sec);<br>or Head Space Pressure<br>(≈50 µL/sec) with Large Sample Vial option |
| **Sample Vials** | 96 qty. (12 x 32 mm) | 92 qty. (12 x 32 mm); or<br>48 qty., 4 mL (17 x 38 mm) |
| **Needle Wash Reservoir** | 30 mL | 8 mL |
| **Needle Wash Volume** | 30-999 µL | 50 µL |
| **Reproducibility (Typical)** | Filled-Loop: <0.5%RSD<br>Partial-Loop: <1.0%RSD<br>Sample Conservation Mode: <1.5%RSD | Filled-Loop: <0.5%RSD |
| **Carryover (Typical)** | <0.2% with 30 µL flush<br><0.1% with 50 µL flush | <0.2%with 50 µL flush |
| **Sample Requirements** | Full Loop: 1.5 x Loop Vol + Flush Vol.<br>Partial-Loop: Inject Vol + Flush Vol.<br>Sample Conservation Mode:<br>Inject Vol + 2 µL (with micro vial) | Filled-Loop Only:<br><100 µL injection: 3 x Loop Vol + Flush<br>100-499 µL injection: 2 x Loop Vol + Flush<br>>500 µL injection: 1.5 x Loop Vol + Flush |
| **Dimensions** | Width: 17.0" (43.2 cm)<br>Length: 20.0" (52.0 cm)<br>Height: 12.0" (30.5 cm) | Width: 17.0" (43.2 cm)<br>Length: 20.0" (52.0 cm)<br>Height: 10.5" (27.7 cm) |
| **Weight** | 60.0 lbs. (27.0 Kg) | 55.0 lbs. (24.9 Kg) |
| **Options** | | |
| **Column Oven** | Ambient +5° to 80° C(±1°) 3 x 3.5 x 30 cm | Ambient +5° to 80° C (±1°) 3 x 3.5 x 30 cm |
| **Sample Tray Heat Exchanger** | 0° to 50°C. Use external temperature bath | 0° to 50°C. Use external temperature bath |
| **Keyboard** | For use apart from System Gold® | For use apart from System Gold |
| **Stream Switching** | 2 each, 6-port, 2-way, time-programmable | — |
| **Reagent Addition** | Mixes external reagent with sample (1:1 ratio) while filling loop | — |
| **Large Sample Vials** | — | 48 qty., 4 mL capacity: uses Head Space Pressure to fill loop |

Specifications subject to change without notice.

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## Ordering Information

**PC Controlled*** *For System Gold w/IBM*

240630 507B* Autosampler
240637 ††507T* Autosampler
With column oven and sample cooling**
240640 ††507R* Autosampler
With column oven, sample cooling,** and column switching

241070 502B* Autosampler
241074 ††502T* Autosampler
With column oven and sample cooling**

**Keyboard Controlled**† *For System Gold w/NEC or Stand-Alone*

240641 507B† Autosampler
240645 ††507T† Autosampler
With column oven and sample cooling**
240648 ††507R† Autosampler
With column oven, sample cooling,** and column switching

241078 502B† Autosampler
241082 ††502T† Autosampler
With column oven and sample cooling**

* In a PC controlled System Gold, autosamplers require the following System Gold Software: 502, version ≥ 5.10; 507 version ≥ 4.0.
** Requires external temperature-controlled liquid bath.
† When using 502 or 507 in an NEC-controlled System Gold, one injector interface cable is required for each module in the system; part no. 239286.
†† Column oven dimensions are 3 x 3.5 x 30 cm. The maximum column length accommodated is 25 cm.

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