

Complete Product Description

Beckman System Gold(R) HPLC systems incorporate the latest technological advances in hardware design. The solvent delivery modules are built with the digitally controlled rapid refill pump design with automatic compressibility compensation that has received multiple patents. These features produce smooth flow from microbore to semi-preparative flow rates, and the high-pressure mixing design eliminates the need for constant helium sparging or degassing. The pumps are combined with high-sensitivity UV/VIS and diode array detectors and autosamplers with automation capability to build HPLC systems that have a reputation for the best performance, ease of use and troubleshooting, and longevity due to a solid and reliable design.

Current Beckman System Gold HPLC in-stock configuration is:

- UV-VIS Detector, model 166
- Solvent delivery module [pump], model 125S
- Fraction collector, optional
- Model 508 autosampler
- Computer workstation with CPU, Monitor and printer
- 32-Karat software, version 3.0

Beckman System Gold HPLC Model 166 detector features:

- 10mm, stainless steel, 17ul capacity flow cell
- Maximum back pressure of 1000 p.s.i.
- Programmable functions: wavelength, range, rise time, auto zero, event mark, relays, lamp off, peak detection, peak threshold, audible alarms, bandwidth, and stop data.
- Wavelength range: 190 - 700 nm single channel, programmable, requires Tungsten lamp for visible light
- Wavelength accuracy: +/- 2 nm after calibration
- Wavelength repeatability: +/- 0.05 nm
- Bandwidth: < 5nm @ 254
- Linearity *Analytical flow cell: +/- 1% from 0.1 to 1.0 AU to +/-0.001 AU below 0.1 AU +/- 5% from 1.0 to 1.5 AU
- Noise *Analytical flow cell: <0.00002AU peak-to-peak 1.1 second rise time at 220-280 nm, 1ml/min methanol
- Drift *Analytical flow cell: less than 0.0001AU/hr at constant temperature
- Rise time: selectable 1 - 5 seconds
- Detector: double-beam, grating monochromator, dual photodiode sensor
- Light source: UV-pre-aligned D2 lamp 190 - 360 or 361 - 700nm, visible-optional tungsten lamp 361 - 700nm
- Memory protection: battery back up maintains parameters for 1 week

Beckman System Gold HPLC Model 125 solvent delivery module (pump) features:

- Flow range: 0.01 - 10.0 ml/min for each pumping mechanism
0.1 mL increments; max flow rate 10mL/min
Preparative; 0.03 to 30.0 mL/min with optional preparative liquid head for each pumping mechanism. Max isocratic flow rate 30 mL/min

- Reproducibility: +/- 1% or 0.003 mL/min., whichever is greater
- Composition range: 0-100% in 0.01 increments
- Operating pressure: 0-6000 p.s.i.
- Operating temp: 4 - 40 degreesC
- Maximum solvent temp: 75C
- Piston displacement: 90ul preparative 243uL
- Program functions: flow, gradient curve, composition, external contacts, audible alarm
- High Pressure Limit: Selectable 20-6500 psi
- Low Pressure Limit: Selectabl 0-6490 psi

Beckman System Gold HPLC configurations:

Pumps: 118, 125, 126, 127, 128

Detectors: 166 uv vis, 168 diode array

Autosampler: 507 or 508

Resource: <http://www.gmi-inc.com/>