SYSTEM GOLD® Nouveau
Modular HPLC

NEW COMPREHENSIVE, EASY-TO-USE SYSTEMS FOR YOUR PRECISE APPLICATION NEEDS
Whatever your specific needs or application — basic research, automated methods development or QC/QA — now there's a System Gold configuration for your precise requirements.

The newest development in HPLC, System Gold Nouveau, is an elegant, powerful line from Beckman that offers you the flexibility of modular design as well as the robustness of an integrated, comprehensive system. It consists of a series of modular units that can be combined into customized configurations, and each module is so comprehensive that most applications can be achieved without additional accessories. With each component manufactured to Beckman's highest quality standards, you can be sure that your customized system will perform with precision for years.

Cost-effective, simple-to-operate systems together with a comprehensive support program make System Gold Nouveau the ideal choice for your HPLC needs.

**Modules For All Applications From Routine To Research And Development**

- Isocratic Solvent Delivery
- Advanced Gradient Solvent Delivery Modules
- Multi-mode Autoinjection
- Programmable Variable Wavelength Detector
- High-Resolution Diode Array Detector

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1-847-683-7720

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Whether you’re developing assays, monitoring product quality, or purifying synthetic intermediates, Beckman offers you a choice of control options that meets your needs perfectly.

If you have a central data system or use integrators or simply do not need to quantitate your chromatographic separation, choose the System Control Center for the easiest to use controller imaginable. Simple and flexible programming for all modules is performed via a keypad and easy-to-read LCD display mounted on the solvent modules. Store up to ten methods and five sample sequence tables for push button automation. Help screens and an exception log printout make start up and troubleshooting easy.

If you’re looking for a stand-alone workstation with built-in networking capabilities, Gold™ Nouveau Software is your answer.

This easy to learn and use Windows®-based package directs control of autosampling, solvent delivery, and detector modules – and provides data collection and analysis and reporting capabilities, for two independent System Gold Nouveau HPLCs. Two additional channels are also provided for data collection, and in some cases pump control, for conventional analog systems.

Assess your needs. Make your decision. With System Gold Nouveau, everything’s under control.

*Windows is a trademark of Microsoft Corporation.
The World's Smartest, Most Advanced Solvent Delivery Modules

The Beckman tradition of providing you with outstanding pumps for HPLC—beginning with the models 100 and 110—has culminated in today's patented single-piston, rapid-refill and compression design. Advanced and reliable, this technology offers you its most perfect expression in System Gold Neurae solvent delivery modules.

This advanced pump technology with intelligent μ-flow™ liquid heads handles air bubbles with ease, eliminating the need for costly and potentially hazardous degassing. Kept superbly accurate by a patented deficit flow compensation algorithm, these solvent delivery modules give you the best that HPLC pump technology has to offer:

- Delivery of a microliter to 30 milliliters per minute
- Reproducible gradients in the microflow range
- Patented floating piston assembly
- Dual-stage dynamic high-pressure mixing
- Piston seal wash chamber
- Five-year seal warranty
- Choice of PEEK or stainless steel flow path
- Programmable four-way solvent selection valves (makes column washing/equilibration and multi-method automation simple)
- Choice of control: integrated System Control Center or Gold Neurae Software

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Microbore PTH-amino acid separation shows outstanding reproducibility
(2 mm i.d. column; 210 μL/min.).

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Cutaway of Patented Pump Technology
1) Intelligent μ-Flow™ liquid head
2) Patented check valves
3) Convenient piston wash feature
4) Patented floating piston design with 5-year seal warranty
5) Patented floating reciprocating shaft
6) Pressure transducer

126 Solvent Module showing solvent select valves.
For day-in, day-out precision year after year, nothing offers you more advantages than the all-electronic 508 Autosampler.

For automated methods development, the 508 provides a spectrum of injection modes from full loop to partial loop, and even microsampling. It also gives you a variety of pre-injection capabilities such as serial dilution, reagent addition, and standard addition - all of which can be programmed through Gold Neveau Software. Furthermore, a choice of 96 standard or 144 microvials gives you ample capacity for even the most demanding applications. Programmable needle wash between injections, samples, and at the end of a series virtually eliminates carryover.

Options include:
- Programmable stream-switching valves
- Peltier sample cooling
- PEEK flow path for sensitive samples

Sample types are color-coded for rapid identification.
There's no better choice for multi-wavelength detection and spectral analysis than the 168 Diode Array Detector.

- Control through Gold Nouveau Software
- Interactive "live" isoabsorbance plot
- Real-time peak purity assessment and display
- High-resolution optical system (512 diodes – 1 nm/diode)
- Cuvette/Holmium oxide filter adaptor for calibration
- Scan graphics, including spectral comparison and derivative calculations

The 166 UV/VIS detector is your ideal solution for affordable yet high-sensitivity analysis.

- Operates with System Control Center or Gold Nouveau Software
- Wide range of flow cells in stainless steel and PEEK

Optional PEEK flow cell is easily interchanged with the standard flow cell.

Use the spectral library feature to construct your own libraries and match unknowns for confirmation of identity.

In multi-chromatogram mode, up to nine channels can be displayed simultaneously.

Both detectors have slide out optics for easy replacement of flow cells and pre-aligned lamps. Shown here is the 166.
SOFTWARE DESIGNED TO MEET YOUR APPLICATION NEEDS

SOPHISTICATED SIMPLICITY

The System Control Center is designed to make your life easier. Its simple, five-item menu directs you to appropriate functional screens: "Sample Table" activates fully automated operation, "Method" gives you access to the method compiler, "Direct Control" enables manual operation, "Diagnostics" leads to a system trouble-shooting screen, and "Configuration" returns you to the main menu. Furthermore, a single keystroke takes you to the system status screen where operation parameters can be monitored.

GOLD NOUVEAU SOFTWARE - COMPREHENSIVE, YET EASY TO LEARN AND USE

Gold Noveau Software is a complete, integrated package that includes diode array graphics, system suitability, spectral library facility, multi-chromatogram displays, and more. In addition to enabling independent control and data management for two System Gold HPLCs, the software also allows control of two analog systems through optional pump control and A/D boards. With features like a unique interactive status window and a multimode diode array display, only Gold Noveau Software offers the combination of application versatility and intuitive simplicity you need to enhance productivity.

Customize your personal run screen. Simply select direct control items using a pull down menu to compile your personal, interactive status panel which will be displayed with the live chromatogram.

You can change the wavelength of the displayed chromatogram at any time and as often as you wish. Peak purity in real time is indicated by bars.
Ideal for the research laboratory, a manual injection, 128/166 combination is a cost-effective solution to the most demanding gradient separation needs — and in only twelve inches (31 cm) of bench space.

For more advanced applications in which peak identification is important, a 125–168 gradient-DAD combination with Gold Nouveau Software will meet your needs perfectly.
Automated methods development is simple with a Gold Neuman Software-controlled gradient system using a 126, 168 and 508 including column switching, solvent selection, and gradient programming.

Ideal for the QC/QA laboratory. Fully automated isocratic or step elution analysis, including column clean up and system shutdown, can be achieved using a 118-166-508 combination.
THE BECKMAN COMMITMENT TO QUALITY

You'll receive the benefits of The Beckman Plus with any Beckman purchase. The Beckman Plus is a commitment to providing the support you need, when you need it. Whether it be routine service for a mature technique such as HPLC or application consultation for an emerging technique such as capillary electrophoresis. The Beckman Plus is a philosophy that helps to make Beckman a safe choice for your most challenging application.

SCIENCE

Being a manufacturer of high-quality HPLC columns in addition to instrumentation and software, gives Beckman a complete understanding of the requirements for successful chromatography. This expertise is available to you through our extensive field organization.

SUPPORT

The Beckman Plus for HPLC begins with a one-year, in-lab warranty service and extends to training courses, instrument certification programs, software validation and long-term service contracts which are available as required.

REFERENCES

Beckman bulletin #DS8039A: Validation, A Successful Blueprint for Your Instruments.
Beckman bulletin #DS8041A: Instrument Certification
Beckman bulletin #DS8040A: Software Validation
Beckman bulletin #DS8054A: Operator Training

SOLUTIONS

The Beckman Plus offers the advantage of selection from a wide range of products configured to ideally suit your research; and, a measurable commitment to quality that documents the tightest tolerances in design and manufacturing methods in existence. This leadership makes Beckman uniquely qualified to provide the right system for you.

The Beckman Plus advantage. It is an integral part of System Gold Nouveau.

THE CE MARK OF EXCELLENCE

An international symbol that signifies product compliance to strict and specific regulations of the European Union, the CE mark may be displayed only on products that comply with applicable CE directives.

The CE mark on System Gold Nouveau indicates our compliance with applicable directives.

THE ISO MARK OF EXCELLENCE

Beckman Instruments, Inc. is a registered ISO 9000 Quality Systems Company with facilities worldwide which provide sales, support and service in more than 120 countries.

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