

# Series III Binary Gradient System

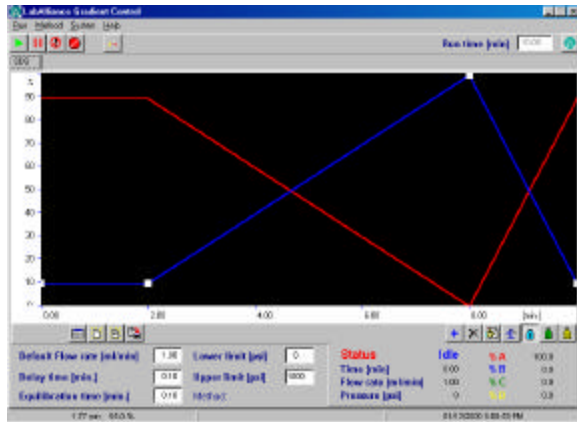
## Value-Priced ❖ High Performance



*Performance Beyond its Price*

### Complete system makes setup easy

The Series III Binary Gradient System features a Series II and Series III digital pump, Model 500 variable wavelength UV Detector, and LabAlliance HPLC Control software. For reproducible mixing characteristics, a static mixer forms part of the high-pressure binary gradient mixing kit. An injection valve with a 20  $\mu$ L loop, an injector bracket, C-18 column, a column holder, nuts, ferrules, and tubing complete the system.



### Functionality and Flexibility

During operation, the Series III pump LED displays the current flow rate or pressure. The easy-to-use keypad allows you to set flow rates and upper and lower pressure limits quickly. The detector LED displays absorbance or lamp energy levels. Simply dial in the desired wavelength, sensitivity, and rise time on the detector auto-zero, and you're ready to run.

Using the standard RS232C connectors on the back of the pumps, any combination of Series II and III pumps may be used to form a gradient system. This flexibility means that a Series II and a Series III pump can be combined to give a fully interactive system with pressure feedback and max/min pressure trips at an unrivaled price. Add two more pumps and you have quaternary high-pressure gradient capability!

### High performance at an affordable cost

The proven single-piston design and pulse damping give the Series II and III the performance of the most expensive pumps at a fraction of the cost. All LabAlliance pumps carry a **3-year warranty**.

The Series III Binary Gradient is available in Type 316 stainless steel or metal-free, biocompatible Bioclean™ (PEEK) fluid path.



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# Series III Binary Gradient System

## Value-Priced ❖ High Performance

### Meets your performance requirements

The Series III Pump features an advanced design rapid-refill cam and a patented low volume diaphragm-type pulse damper, giving minimal baseline noise and low pulsation, to meet the requirements of the most demanding applications. High-pressure binary gradient pump control is achieved through LabAlliance gradient control software. The pumps are controlled via RS-232 cables provided with the system.

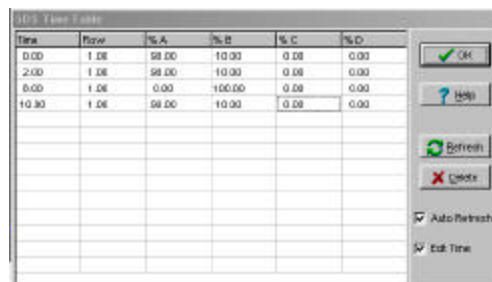
The Model 500 UV/VIS Detector features high sensitivity with selectable absorbance ranges from 0.0005 to 2.0 AUFS. A second-order Bessel filter, fiber optics, and proprietary circuits ensure low-noise, low-drift performance. A prealigned deuterium lamp is standard; an optional tungsten lamp is available. The analog output of the detector may be hooked up to any data collection system.

### Connecting the pumps to your PC

Connecting the pumps could not be easier. All you need is two free COM ports on your PC, running Windows® 95/98/NT. The gradient control kit comes complete with software and two pump cables – one standard cable, and one cable with external start. The second pump control cable provides contact closure start from an injector or relay contact from an autosampler. An optional pump interface box, MPX, allows the user to connect 2-4 pumps using only one COM port of the PC. The system may then be easily upgraded to ternary or quaternary gradient by adding pumps.

### Software operation

Anyone who has used Windows-based software will be able to operate this system within ten minutes of installation. With an additional "click and edit" user-friendly graphic control feature, the setting up and running of solvent gradients is wholly intuitive.



### More than just an HPLC System

Service and support are as important to us as selling a system. We can help you determine the best system design to fit your application requirement. We'll explain each option and help you select the most beneficial ones. And we're budget-conscious too.

We get your system in your hands quickly so you start getting results. For as long as you own your system, our experienced support team is always just a phone call away. Our full line of accessories will help you maintain your system for a long, healthy operating life.

### Ordering information

Description	Part No.
Series III Binary Gradient System, SS	SD-BHPG-S
Series III Binary Gradient System, PEEK	SD-BHPG-P
<i>Both systems require a PC, Windows 95/98/NT, and 2 free COM ports.</i>	

### Options

MPX Box	WI-DY2K061101
Tungsten Lamp for Detector	201306
Autosampler, variable injection volume	180160
Mobile Phase Recycler	WI-DR99090601
Fraction Collector Jr.	IS-68-3870-001
w/rack for 13 mm. dia. Tubes	
Peak Simple data acquisition system, 1 ch.	SR-8600-1055
PC & monitor	SD-PC



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