



QUANTASEP® 1800

Sanitary 100 Liters/Hour Scale Up System

QuantaSep® is a fully integrated system to truly automate your purification process. This sanitary bench top system enables the user to automatically equilibrate, load, wash, elute and regenerate up to three columns. The user can also control each step in the purification based on UV, pH, conductivity, time, volume, air or any external user-defined variable. As the sensors monitor column outflow, the computer reads the information to automatically change buffers, start gradients and collect fractions, stepping through the method as you programmed it. The computer logs all data such as events, alarms and chromatograms for analysis and printout.



Flow range up to 1800 ml/min

8 Mission Critical Ways a QuantaSep® Can Help Get Your Department In Control

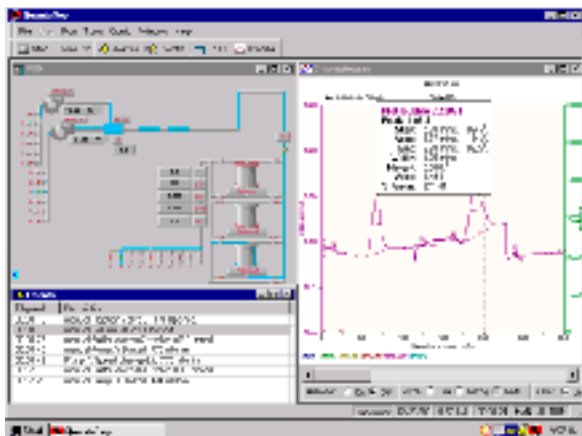
- ✓ Reduce Project Backlog
- ✓ Improve Product Quality and Reliability
- ✓ Reduce Batch Failures
- ✓ Unattended Clinical Production 24/7 Now!
- ✓ GMP Documentation Automatically
- ✓ Easy Scale-Up 100X
- ✓ Improve Process Economics by 50%
- ✓ Space Efficient

QuantaSep® 1800 Highlights

- Automates buffer delivery, column switching, fraction collection, based on UV, pH, and conductivity.
- Small footprint can fit on bench-top, laminar flow hood or cold room.
- Large dynamic flow range - 20-1800 ml/min
- Graphical, intuitive software "dashboard" for easy operation and training.
- Automated GMP reports
 - Complete batch reports
 - Event and logs
 - Chromatograms and calibration history
- Precision Hardware
 - 100:1 turndown ratio for accurate gradients
 - Low system volume
 - Integrated pH, UV, condition flow cell
- Safety features
 - Active air trap minimizes "bubble trap dilution"
 - Leak and pressure alarms
 - Built in safety interlocks
 - Software method checks
 - Software security prevents unauthorized operation and tampering of data

The Right Combination of Simplicity and Power

The simplicity of QuantaSep®'s interactive graphical user interface gives the system its efficiency and power by making it easy to learn and use. You don't need to refer to printed flow diagrams and manuals. Because, even if you have little or no computer experience, QuantaSep®'s intuitive on-screen operations make the system easy to use-from the moment you plug it in..



QuantaSep® Has What It Takes

The QuantaSep® System can automate many of the routine manual tasks related to process development and free up key scientists time to handle additional mission-critical projects. It allows the process development departments to manage the deadlines to produce clinical/pre-clinical material, scale-up processes and trouble-shoot or downscale production problems all within existing headcount and budgetary constraints. The payback for these systems has ranged from 3-18 months!



SEPRAGEN
CORPORATION

"INNOVATORS IN SEPARATION TECHNOLOGIES"

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QuantaSep® 1800 Specifications

- 12 user selectable buffers
- 3 user selectable columns forward/reverse/bypass mode
- 10 user selectable fractions with fraction collect capability
- Sanitary design
- Range: 20-1800 ml/min, $\pm 3\%$
- Hold up volume: 120 ml
- Small component footprint: 21"X26"X15"
- 5%-95% gradient capability
- Pressure rating: 50 psi
- Tubing: 3/8" I.D.

Wetted Materials of Construction

Silicone, polyethylene and polypropylene tubing; polypropylene valves and fittings; PTFE diaphragms; glass/quartz/316L stainless steel sensor components.

Components Specifications

280 nm UV 0-2 Au
254 nm UV 0-2 Au (Optional)
Conductivity Sensor 0-200 ms, $\pm 5\%$
pH Sensor 1-14 pH, ± 0.2
Air Bubble $> 0.20''$
Pressure Sensor 0-100 psi ± 1 psi
Leak Sensor 5 ml leak volume

Warranty, Installation & Support

All QuantaSep®'s are backed by Sepragen's one year limited warranty. Installation and training, along with IQ/OQ are performed by Sepragen Service Group. Preventative maintenance and Total maintenance service is provided at added cost. Validation support packages are also available.

Call (510)475-0650 to schedule a free confidential ROI/Efficiency assessment of your purification process.