



QuantaSep® Trusty 1800

Sanitary 100 Liters/Hour Scale Up System

QuantaSep® Trusty 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, temperature, air sensors 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® Trusty Can Help Get Your Department In Control

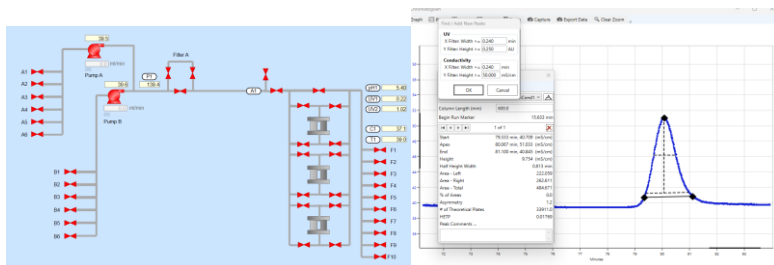
- ✓ Reduce Project Backlog
- ✓ Improve Product Quality and Reliability
- ✓ Reduce Batch Failures
- ✓ Unattended Clinical Production 24/7 Now!
- ✓ Reduce Tedious Documentation
- ✓ Easy Scale-Up 100X
- ✓ Improve Process Economics by 50%
- ✓ Space Efficient

QuantaSep® Trusty 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 Logs
 - Chromatograms & calibration history
- Precision Hardware
 - 100:1 turndown ratio for accurate gradients
 - Low system volume
 - Integrated pH, UV, conductivity 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

The Right Combination of Simplicity and Power

The simplicity of QuantaSep® Trusty system'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. Even if you have little or no computer experience, the QuantaSep® Trusty intuitive on-screen operations make the system easy to use from the moment you



Event Time	Description
00:00:01	Manual Mode running
00:00:05	F1 open
00:00:11	LCSDV2 open
00:00:11	LCSDV2 open
00:00:17	A2 open
00:00:21	Pump A Flow Rate target is now 770.0 ml/min
00:00:24	Pump A running
00:00:39	E1 open

Step	Step Type	Label	Flow Sequence (ml/min)	Valve A	S.A.	Valve B	S.B.	Column Number	Column Flow	Step Change Criteria	Direction	Change Threshold	Fraction Outlet	Zero the UV
1	Normal	W21	700	Not Used	0	Not Used	0	Column 1	Forward	Column Volume	N/A	0.500	F1	011
2	Normal	LCSD	Not Used	0	100.00	0	100.00	Column 1	Forward	Air (SAC)	N/A	1.000	F2	None
3	Normal	W22	700	Not Used	0	Not Used	0	Column 1	Forward	Column Volume	N/A	2.000	F3	None
4	Gradient	LCV1	500	A1	10.00	B6	90.00	Column 1	Forward	Column Volume	N/A	2.000	F4	None
5	Normal	W23	700	A1	100.00	Not Used	0	Column 1	Forward	Column Volume	N/A	1.000	F5	None

QuantaSep® Trusty Has What It Takes

The QuantaSep® Trusty 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 process development departments to manage deadlines to produce clinical/pre-clinical material, scale-up processes and troubleshoot or downscale production problems all within existing headcount and budgetary constraints. The payback for these systems has ranged from 3-18 months!



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QuantaSep® Trusty 1800 Specifications

- 12 user selectable buffer inlets
- 3 user selectable columns in 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: 24" x 20" x 25"
- 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® Trusty systems are backed by Sepragen's one year limited warranty. Installation and training, along with IQ/OQ are performed by the Sepragen Service Group. Preventive maintenance services are provided at additional cost. Validation support packages are also available.

To learn more call:
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