



HIAC 9703+ Liquid Particle Counting System

Easily configurable for maximum flexibility



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COULTER**

Life Sciences

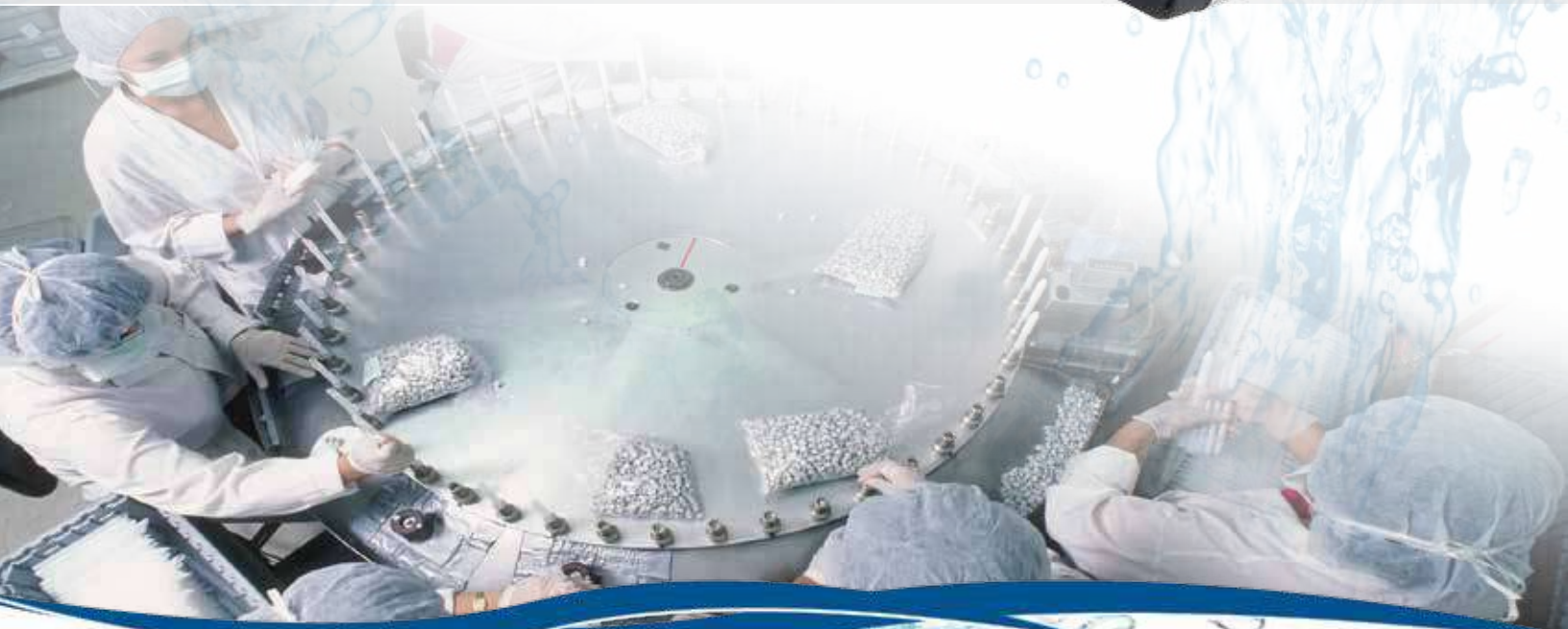
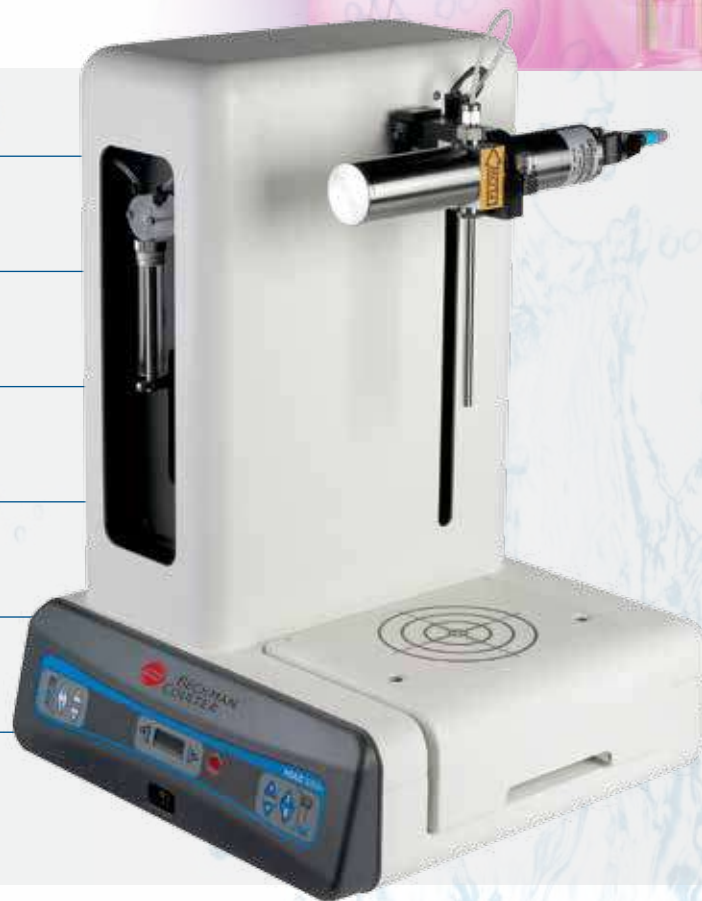
Efficient Compliance

Highly Flexible

Advanced Diagnostics

Time Saving, Faster and Easier

Protects Your Investment

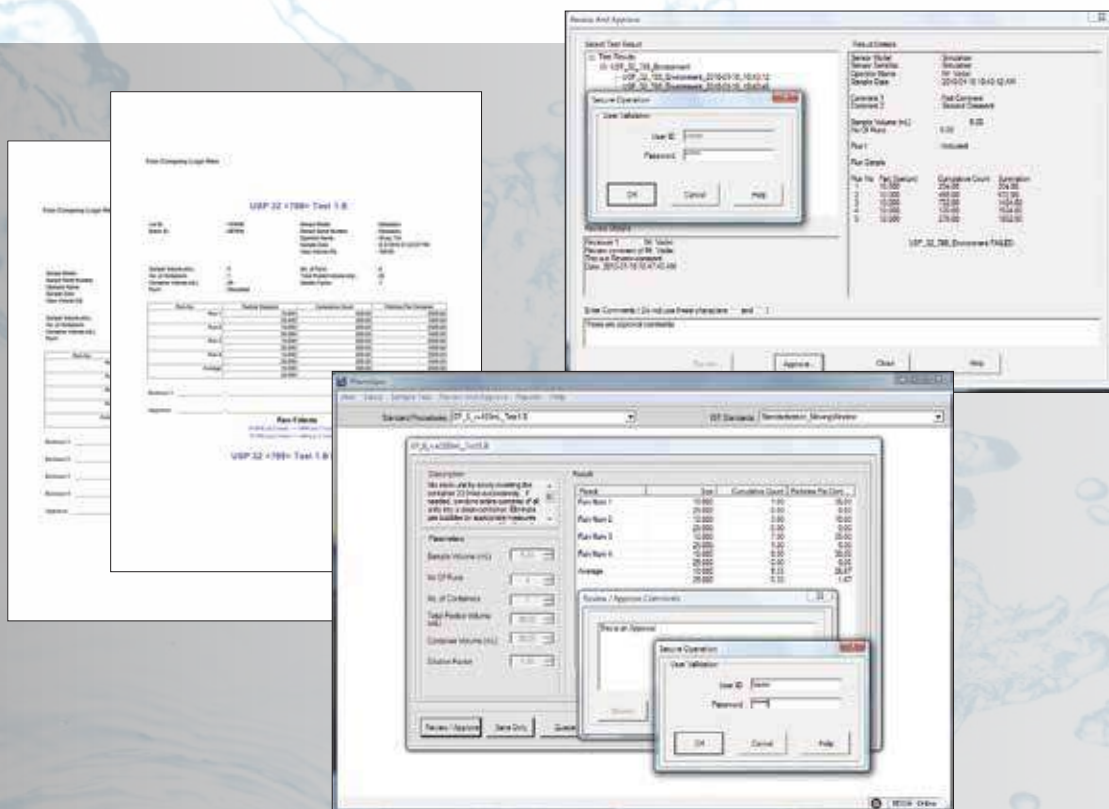


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HIAC 9703+ LIQUID PARTICLE COUNTING SYSTEM

HIAC just got easier!



***Use less sample, save valuable time –
protect your investment***

- Industry's smallest tare volume
- Small vial clamp ensures that your sample does not spill during testing

***Enjoy more
walk away time***

- Automated flushing and cleaning routines



HIAC 9703+

PharmSpec

Customized test routines and reporting

- Customized particle size, sample volume and run test recipes for your unique application needs
- User configurable reports

Added flexibility to configure security access

- Allows administration to define multi-level security access
- Meets requirements for 21 CFR Part 11 compliance

Save time utilizing pre-configured compendial test recipes

Eliminate manual calculations – Pass/Fail limits

Injectable Drugs

- USP <788>
- EP <2.9.19>
- JP <11>, <24>
- KP <52>

Ophthalmic

- USP <789>

Inhalants

- USP<788>/Levalbuterol Inhalation

Manage all of your application needs

Designed to handle the full range from very small (1 ml) to very large (>1000 ml) volumes

- Small volume injectable (SVI)
- Large volume injectable (LVI)
- Research and Development
- Troubleshooting
- Stability testing

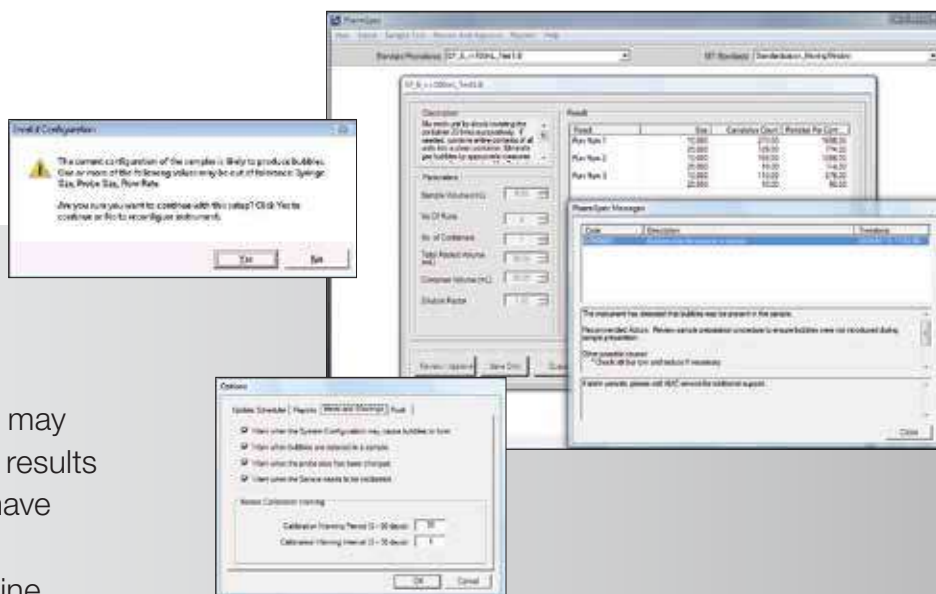
Easily configurable for maximum flexibility

- Interchangeable sensors from 0.5 μm to 600 μm
- Interchangeable sampling probes
- Interchangeable syringes – based on sampling size
- Configurable flow rates from 10 ml/min to 100 ml/min



Eliminate uncertainty from data anomalies

- Alarm notification when bubbles may have impacted particle counting results
- Operator alerted if the sensors have been contaminated
- Advanced notification when routine service or calibration is needed
- Operator notification when regulatory updates become available
- All alarms provide recommended actions



Eliminate anxiety of data loss

- Data loss recovery feature protects test data in the event of a power interruption or loss
- PharmSpec allows the operator to schedule data base back up to a secure network location

Turn-key validation and after sale service

Comprehensive local and on-site HIAC service programs with multiple field service offices and authorized distributors are available throughout the world

Avoid costly down time

- On-site service significantly reduces down time – no shipping of your unit required
- Notification with a phone call when your unit is in need of routine service

Instrument Validation Services

- SOP assistance and IQ/OQ validation services
- Utilize our expertise to get your system out-of-the-box and ready-to-use
- Ensure the accuracy of your instrument with documented validation and ISO 21501-3 compliant calibrations



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Specifications

9703+ Sampler

| | |
|------------------------------------|--|
| <i>Temperature Range</i> | 5 to 40°C (40 to 104°F) 0 to 80% relative humidity, non-condensing |
| <i>Temperature Range of Sample</i> | 5 to 40°C (40 to 104°F) |
| <i>Viscosity Limit</i> | <50 cP |
| <i>Power Requirement</i> | 100/230 VAC, 50/60 Hz |
| <i>Maximum Power</i> | 67 W at 115/230 VAC |
| <i>Dimensions</i> | 343 W X 337 D X 482 H mm (13.5 X 13.3 X 19.0 inches) |
| <i>Weight</i> | 10.7 kg (23.6 lbs) |
| <i>Sample Bottle Clearance</i> | 153 mm (6.02 inches) |
| <i>Volume Accuracy</i> | > 95% |
| <i>Flow Rate Accuracy</i> | > 95% |
| <i>Sample Flow Rate</i> | 10 to 100 ml/min; Actual flow rate for the system is determined by the sensor's flow rate with step-by-step instructions and Pass/Fail results. |
| <i>Tare Volumes for Probes</i> | 0.091 ml for 81 L X 1.2 ID mm (3.2 X 0.047 inches) 0.172 ml for 154 L X 1.2 ID mm (6.1 X 0.047 inches) 1.57 ml for 140 L X 6.35 ID mm (5.5 X 0.25 inches) - large bore |

PharmSpec 3 Software

| | |
|-------------------------|---|
| <i>Processor</i> | Pentium® 1.0 GHz |
| <i>Operating System</i> | Windows® XP with Service Pack 3 or later Windows Vista® with Service Pack 2 or later Windows 7 platforms |
| <i>Memory</i> | 512 MB of RAM |
| <i>Hard Disk</i> | 2 GB of available hard-disk space |
| <i>Drives</i> | CD drive, DVD drive, USB port or network connection is required for installation |
| <i>Display</i> | Super VGA video adapter and monitor, 1024 x 768 or higher resolution |
| <i>Power Supply</i> | Uninterrupted power supply (UPS) |
| <i>Removable Drive</i> | Removable drive for backing up data, such as a recordable CD or a network server that can back up the computer hard drive |
| <i>Printer</i> | Color printer capable of printing at 300 dpi |
| <i>COM Port</i> | USB port to connect to the particle counting sensor |
| <i>Software</i> | Internet Explorer 6.0 or higher and Microsoft® Excel®, Word® or Adobe® Acrobat® (to access PharmSpec reports) |

Typical System Configurations - other options available

| <i>Part Number</i> | <i>Description</i> |
|--------------------|--|
| 2089105-01 | 9703+ Sampler |
| 2089250-150 | HRLD-150 Sensor |
| 700060GP | PharmSpec 3 Software |
| DOC026.53.80099 | Validation Documents - English (other languages available) |
| 2089007-025 | 25 ml Calibration Flow Rate (other flow rates available) |

| <i>Standard Sensors</i> | <i>Range</i> |
|-------------------------|---|
| HRLD-150 | 1.3 µm to 150 µm |
| HRLD-150JA | 1.3 µm to 150 µm (chemical compatibility) |
| HRLD-400 | 2 µm to 400 µm |
| HRLD-600JS | 2 µm to 600 µm (chemical compatibility) |

| | |
|----------------------------------|---|
| <i>Compliance Certifications</i> | CE Compliant per EMC and Low Voltage Directives Class 1 Laser Product Complies with IEC/EN 60825-1 and 21 CFR 1040.10 pursuant to Laser Notice 50 ** |
|----------------------------------|---|

** Contact manufacturer for complete compliance details

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