



Advanced Test Equipment Corp.

Rentals • Sales • Calibration • Service



HIAC 9703+ Liquid Particle Counting System

Easily configurable for maximum flexibility



**BECKMAN
COULTER**

Life Sciences

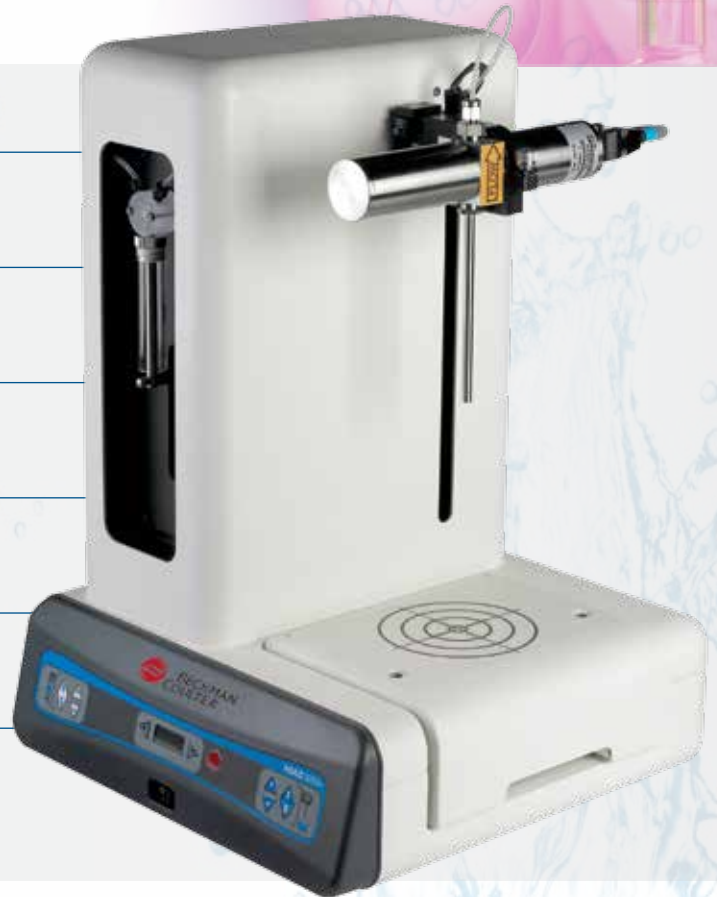
Efficient Compliance

Highly Flexible

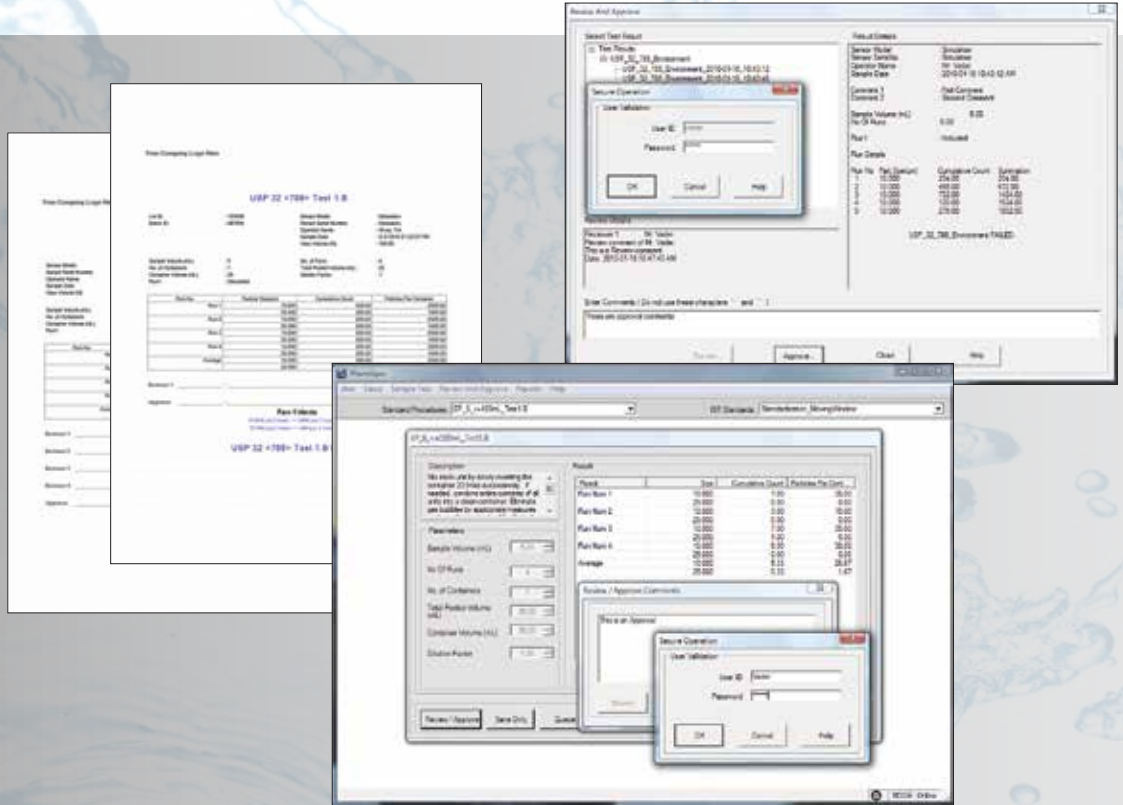
Advanced Diagnostics

Time Saving, Faster and Easier

Protects Your Investment



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



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

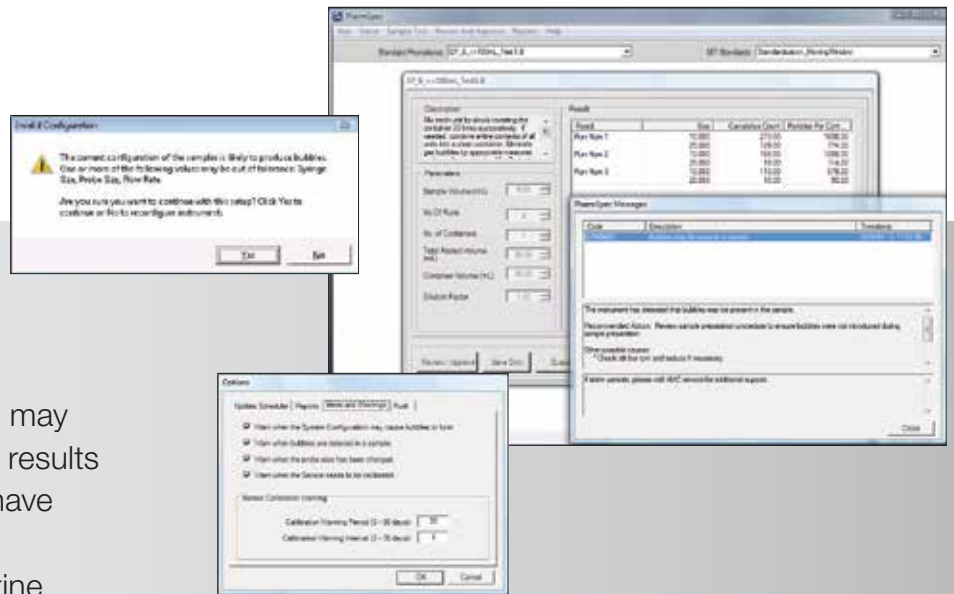
Easily configurable for maximum flexibility

- 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

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 **
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** Contact manufacturer for complete compliance details

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