



## Now supports 21 CFR Part 11 compliance

### Model 9703 Liquid Particle Counting System

#### FEATURES

- Reduced sampling costs
- Simplified sampling procedure
- Reduced sample contamination
- Maximized sampling repeatability
- Supports 21 CFR Part 11 compliance with PharmSpec 2.0
- Supports new USP <789> tests for ophthalmic products

#### APPLICATIONS

- Precision Cleaning
- Parenteral Particle Counting
- Injectables
- Pharmaceutical testing
- Pharmacopeia compliance
- Medical devices
- WFI / PW / DI waters



The HIAC Model 9703 System combines proven technology and application knowledge in a compact syringe sampler, and with the PharmSpec 2.0 software now offers full compliance with 21 CFR Part 11. This instrument precisely measures particles from small and large volume parenterals as well as fluid used for cleaning medical devices and precision parts. Analyze samples from WFI (water for injection) systems.

The automated mechanisms ensure that particles in the sample are uniformly suspended and drawn into the sensor with minimum operator interaction and contact; consequently, sample error decreases and operator contamination is minimized.

The principle of light extinction (light blockage or obscuration) is used to detect particles in the range of 1.3 to 400 micron. The HRLD series sensors are used exclusively with this system to accurately size particles through their full dynamic range, resulting in unsurpassed resolution and count efficiency. For submicron particle counting applications, MicroCount series sensors may be employed.

The Model 9703 system uses a personal computer to provide user input, particle count data display, analysis, and storage of batch records. PharmSpec 2.0 software allows the user to choose pre-defined test standards (USP <788> and <789>, EP, KP or JP) or customize batch runs in a 21 CFR Part 11 compliant environment.



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### SPECIFICATIONS

Temperature Range	40 to 104°F (5 to 40°C) 0 to 80% relative humidity, non-condensing
Temperature Range of Sample	40 to 104°F (5 to 40°C)
Viscosity Limit	< 20 cp (may require use of 1.0 ml syringe)
Voltage	100 to 230 VAC, 50/60 Hz
Power	500 VA maximum
Current	2 A at 115 to 230 VAC
Fusing	115 to 230 VAC, Type T, 2A, SB
Dimensions	12.75" w x 12.0" d x 19.75" h (32.4 x 30.5 x 50.2 cm)
Weight	26 lbs (11.7 kg)
Sample Bottle Clearance	Standard Unit: 5.8" (14.7 cm) Extension Kit: 9.0" (22.8 cm), increases height by 3.2" (8.1 cm)
Volume Accuracy	> 95%
Flow Rate Accuracy	> 95%
Sample Flow Rate	10 to 100 mL/min; Actual flow rate for the system is determined by the sensor's flow rate
Software	For 21 CFR Part 11 compliance, PharmSpec 2.0 is a Windows®-based package with built-in procedures for common pharmaceutical testing requirements. Designed to be validated for the pharmaceutical customer, PharmSpec makes limits testing easy and reduces errors with step by step instructions and Pass/Fail results.

### ORDERING GUIDE

When ordering, specify:	SENSOR:	DYNAMIC RANGE:
	HRLD-100/100HC	4 to 100 µm(c)
	HRLD-150/150JA	1.2 to 150 µm
	HRLD-400/400HC	2 to 150 µm
	MicroCount-05	0.5 to 350 µm
	MicroCount-100/100S	0.1 to 5 µm

### OPTIONAL ACCESSORIES

MicroCount-05 Adapter  
 Glass Stir Rod, Standard 6" (15.2 cm)  
 Glass Stir Rod, Long 13" (33 cm)  
 Probe, 8.07" (20.49 cm)  
 Syringe (1, 10, 25 mL)  
 Extension Arm Kit  
 Non-Magnetic Stirrer  
 Computer



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