HIAC 9703

LIQUID PARTICLE COUNTING SYSTEM

Supports 21 CFR Part 11 compliance

Features

- Reduced sampling costs
- Simplified sampling procedure
- Reduced sample contamination
- Maximized sampling repeatability
- Supports 21 CFR Part 11 compliance with PharmSpec Version 2 software
- Supports new USP <789> tests for opthalmic products

Applications

- Precision cleaning
- Parenteral particle counting
- Injectables
- Pharmaceutical testing
- Pharmacopeia compliance
- Medical devices
- WFI / PW / DI waters

The HIAC 9703 Liquid Particle Counting System combines proven technology and application knowledge in a compact syringe sampler, and with the PharmSpec Version 2 software, offers full compliance with 21 CFR Part 11. This instrument precisely measures particles from small and large volume parenterals as well as samples from WFI (water for injection) systems or fluids used for cleaning medical devices and precision parts.

The automated mechanisms ensure that particles in the sample are well-suspended and drawn into the sensor with minimum operator interaction and contact, helping to ensure the reproducibility and repeatibility of particle counts.

The principle of light 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.

The HIAC 9703 system uses Window®-based software to provide user input, particle count data display, analysis and storage of batch records. PharmSpec Version 2 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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Performance Specifications

Temperature Range	5 to 40°C (40 to 104°F)	
	0 to 80% relative humidity, non-condensing	
Temperature Range of Sample	5 to 40°C (40 to 104°F)	
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	32.4 W x 30.5 D x 50.2 H cm (12.75" x 12.0" x 19.75")	
Weight	11.7 kg (26 lbs)	
Sample Bottle Clearance	Standard Unit	14.7 cm (5.8")
	Extension Kit	22.8 cm (9.0"), increases height by 8.1 cm (3.2")
Volume Accuracy	> 95%	
Flow Rate Accuracy	> 95%	
Sample Flow Rate	25 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 Version 2 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.	
When ordering, specify	SENSOR:	DYNAMIC RANGE:
	HRLD-150/150JA	1.3 to 150 µm
	HRLD-400/400HC	2 to 150 µm
Optional Accessories	Glass Stir Rod, Standard 15.2 cm (6")	
	Glass Stir Rod, Long 33 cm (13")	
	Probe, 20.49 cm (8.07")	
	Syringe (1, 10, 25 mL)	
	Extension Arm Kit	
	Non-Magnetic Stirrer	
	Computer	

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