

HIAC 8103

LIQUID PARTICLE COUNTING SYSTEM



Automated syringe sampling system

Features

- Simplifies sampling procedure
- Reduces sample contamination
- Maximizes sampling repeatability
- Better than 1% sample volume accuracy
- Small foot print
- Easy installation

Applications

- Precision cleaning
- Parenteral particle counting
- QC testing of chemicals

The HIAC 8103 system is a versatile system for use in parenteral particle counting of SVI and LVI for USP <788>, JP and EP, and precision cleaning applications. The HIAC 8103 system is easy to use, reduces sampling costs and uses proven particle counting technology. This system is ideal for qualification of cleanliness levels using water, solvents and chemicals. The HIAC 8103 system works with the HRLD and MicroCount sensors to measure particles from 0.1 to 400 microns.

The HIAC 8103 system consists of a comprehensive line of laser diode particle sensors that are developed to satisfy unique application requirements for particle size, sample concentration and sample flow rates.

The HIAC 3000A sampler helps ensure that particles in the sample are well-suspended and drawn into the sensor with minimum operator interaction and contact. This results in greater reproducibility between samples by minimizing the biggest source of errors in particle counting—sampling and operator contamination. The 3000A standard unit comes with a magnetic stirrer and offers the optional addition of a non-magnetic stirrer that transforms the HIAC 8103 into the standard laboratory precision cleaning instrument. The non-magnetic stirrer is essential for applications when metal particles could be in the sample.

The HIAC 8000A counter measures up to eight user-defined particle sizes. Its high resolution liquid crystal display is capable of both graphical and textual output of result, while an internal printer produces hard copy. A bidirectional RS-232 serial port is provided to transfer and provide control data to and from computer-based systems. The 8000A is remarkably intuitive and easy to learn and controls all aspects of the HIAC 8103's operation.



Performance Specifications

8000A COUNTER

Data Input/Output	Printer, LCD display, RS-232C
Operating Environment	7 to 52°C (45 to 126°F) 30 to 95% relative humidity, non-condensing
Power (selectable)	90 to 132 VAC ± 10%, 47 to 63 Hz 180 to 264 VAC ± 10%, 47 to 63 Hz
Dimensions	41 W x 31 D x 17 H cm (16" x 12" x 6.5")
Weight	5 kg (11 lbs)

3000A SAMPLER

Sample Chamber	Standard unit	14.7 cm (5.8")
	Extension kit	22.8 cm (9.0")
Wetted Materials (depends on specific sensor)	Teflon® (PTFE, TFE, PFA) Kel-F™ Borosilicate Glass Schott BK7™ Stainless Steel 316 Viton™ Stycast™ 2850 Adhesive and sensor material	
Dimensions	30 W x 28 D x 48 H cm (12" x 11" x 19")	
Weight	9.3 kg (20.4 lbs)	

SENSOR

Refer to the HRLD and MicroCount Sensors Data Sheets

Optional Accessories	MicroCount-05 Adapter MicroCount-100/200 Adapter Glass Stir Rod, Standard 15.2 cm (6") Glass Stir Rod, Long 33 cm (13") Syringe (1, 10, 25 mL) Extension Arm Kit CountSpec™ Software Printer Paper Propeller Stirrer
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