

Automated syringe sampling system for chemicals, pharmaceuticals and parts cleaning

Model 8103 Liquid Particle Counting 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 Model 8103 System is a versatile system for use in parenteral particle counting of SVI and LVI for USP 24 <788>, JP and EP, and precision cleaning applications. The 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 8103 System works with the HRLD and MicroCount sensors to measure particles from 0.1 to 400 microns.

The Model 8103 System consists of well-proven components. A comprehensive line of laser diode particle sensors are each developed to satisfy unique application requirements for particle size, sample concentration and sample flow rates.

The Model 3000A sampler ensures that particles in the sample are uniformly 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; however, HIAC offers the optional addition of a non-magnetic stirrer that transforms the Model 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 Model 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 RS232 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 Model 8103's operation.



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SPECIFICATIONS

8000A COUNTER

Data Input/Output Printer, LCD display, RS232C Operating Environment 45 to 126°F (7 to 52°C)

30 to 95% relative humidity, non-condensing

Power 115 VAC \pm 10%, 60 Hz \pm 1%

230 VAC \pm 10%, 50 Hz \pm 1 %

Dimensions 16" w x 12" d x 6.5" h (41 x 31 x 17 cm)

Weight II lbs (5 kg)

3000A SAMPLER

Sample Chamber Standard unit: 5.8" (14.7 cm)

Extension kit: 9.0" (22.8 cm)

Wetted Materials Teflon® (PTFE, TFE, PFA)

Kel-F™

Borosilicate Glass Schott BK7TM Stainless Steel 316

 $Viton^{\mathsf{TM}}$

Stycast[™] 2850 Adhesive and sensor material 12" w x 11" d x 19" h (30 x 28 x 48 cm)

Weight 20.4 lbs (9.3 kg)

SENSOR

Dimensions

Refer to the HRLD and MicroCount Sensors Data Sheets

OPTIONAL ACCESSORIES

MicroCount-05 Adapter MicroCount-100/200 Adapter

Glass Stir Rod, Standard 6" (15.2 cm) Glass Stir Rod, Long 13" (33 cm)

Syringe (1, 10, 25 mL) Extension Arm Kit CountSpec™ Software

Printer Paper Propeller Stirrer



