

# HIAC 8012

## Liquid Particle Counting System

### Features

- Measures viscous samples (up to 1800cp)
- 1% flow rate reproducibility
- Sample volumes as low as 3 mL
- Minimizes errors due to particle settling, dilution and background contamination

### Applications

- Fluid cleanliness measurements
- High viscosity oils
- Final drive and transmission fluids

### *Syringe sampler for dark, viscous fluid analysis*

The HIAC SDS enables particle size analysis of premium liquids such as the lubricants found in a heavy hydraulic equipment. This sampler is designed for high viscosity fluids and applications where only small amounts of sample are available. The HIAC SDS features a stepper motor-driven lead screw—a reliable, repeatable actuator. Using this powerful actuator, fluids may be sampled without dilution. The result – elimination of errors associated with dilution, transitional movement and sample preparation.

The HIAC 8000A Counter processes and displays sample data in real-time. The liquid crystal display (LCD) presents the user with images of the particle size distribution data in tabular and graphical formats. Reporting parameters, such as alarm conditions and standards protocol are also available for display. The HIAC 8000A is completely menu-driven, providing keyboard entry for calibration/voltage settings.



*The HIAC 8012 Liquid Particle Counting System analyzes viscous, dark and dirty fluids without dilution. The HIAC 8012 counts particles in tractor final drives, greases and chemicals without sample pretreatment. The system includes the HIAC Syringe Driven Sampler (SDS), 8000A counter and an HRLD 400HC sensor.*

## Specifications

### 8000A COUNTER

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<i>Data Input/Output</i>	Printer, LCD display, RS-232C
<i>Operating Environment</i>	7 to 52°C (45 to 126°F) Up to 95% relative humidity, non-condensing
<i>Power</i>	115 VAC ± 10%, 60 Hz ± 1% 230 VAC ± 10%, 50 Hz ± 1%
<i>Dimensions</i>	41 w x 31 d x 17 h cm (16 x 12 x 6.5 inches)
<i>Weight</i>	7.7 kg (17 lbs)

### SDS SYRINGE DRIVEN SAMPLER

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<i>Sample Flow Rate</i>	20 mL/min
<i>Maximum Sample Viscosity</i>	1800 centipoise
<i>Operating Environment</i>	10 to 40°C (50 to 104°F) 0 to 80% relative humidity, non-condensing
<i>Power Voltage</i>	100 to 240 VAC
<i>Frequency</i>	47 to 63 Hz
<i>Maximum Current</i>	0.630 Amps @ 115 VAC 0.50 Amps @ 230 VAC
<i>Dimensions</i>	28 w x 25.5 d x 57 h cm (11 x 10 x 22.5 inches)
<i>Weight</i>	9.5 kg (21 lbs)

### SENSOR

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	HRLD 400HC (Refer to HRLD datasheet)
<i>Optional Accessories</i>	Phosphate Ester-based Fluid Compatible Sampler Certified Clean Bottles

Beckman Coulter Life Sciences  
250 S Kraemer Blvd  
Brea, CA 92821 USA  
Telephone: 800-866-7889  
E-mail: [insidesalesgp@beckman.com](mailto:insidesalesgp@beckman.com)  
[www.particle.com](http://www.particle.com)



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