



HIAC 8011+

Liquid Particle Counting System

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...designed for the real world.

Intelligent on-screen prompts guide users through common sampling activity.

- Advanced instrument diagnostics with recommended actions for users
- User alerts for particle settling and run-to-run variances
- HRLD Smart Sensor alerts for service and calibration due

Sample management system ensures consistent, accurate data.

- Pressurized sample delivery reduces the impact of bubbles
- Integrated Vacuum/Degas function streamlines sample handling for increased accuracy
- Automated sample flow for precision data

Fewer steps...increase throughput.

- One button sampling - results under 60 secs
- Quickly load up to 20 custom test recipes
- Set up your own sampling recipe in less than 5 steps

Stop wasting time diluting samples and cleaning the instrument.

- No dilution required for high viscosity fluids (<425cSt)
- Automated cleaning and flushing routines
- Sensor contamination alarm informs you in advance to ensure you clean prior to wasting sample and getting bad data



• Petrochemical Industry



• Injection Molding Plants



• Marine Industry



• Aerospace Industry



Immediate particle concentration data

Eliminate printing and go paperless. Get the data immediately in a PDF or Excel® file.

- Create application specific reports in PDF or Excel® format
- Embedded web browser for online report review and approval
- Export reports via USB memory stick or Ethernet

On-site HIAC expertise. Call us, speak with a HIAC expert.

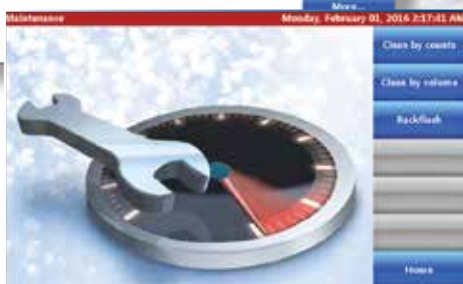
- On-site service and calibration
- Notification with a phone call when your unit is in need of routine service
- Free technical support for the life of your instrument
- 1-800-866-7889



Size (µm)	Differential (Counts/200ml)	Class
3.000 - 35.00	0.0	
35.00 - 25.00	0.0	
35.00 - 50.00	0.0	
50.00 - 100.0	0.0	
> 100.0	0.0	

1	Recipe name: recipe name	Save
2	Recipe title: recipe title	Next page
3	Recipe subtitle: recipe subtitle	
4	Sample volume: 25	
5	Number of runs: 5	Details
6	Dilution factor: 1	Export
7	Use background subtraction: YES	Run recipe
8	Discard first run: NO	Discard changes
9	Reports Run counter (per ml)	

Run ID	Count	Class
1	12345	1
2	54321	2
3	98765	3
4	21098	4
5	65432	5



Specifications

<i>Weight (without sensor)</i>	58.2 lbs, (26.4 kg)
<i>Sample Flow Rate</i>	(mL/min) 10 to 100 (sensor dependent)
<i>Sample Volume</i>	(ml) 5 to 100
<i>Tare Volume</i>	(ml) 0.1 to 100 ml in 0.1 ml steps, not to exceed 1056 ml minus total sample volume
<i>Flow Accuracy</i>	+/- 2.5%
<i>Viscosity Range</i>	1-425cSt
<i>Operating Pressure Range</i>	maximum = 90psi
<i>Operating Temperature Range</i>	10 to 40°C
<i>Storage Temperature Range</i>	-35 to -65°C
<i>Relative Humidity</i>	10% to 80%, non-condensing
<i>Max Altitude</i>	6,500 ft.
<i>Communication, Host I/O</i>	Ethernet and 2 USB ports
<i>Safety Feature</i>	Waste container full alarm with optional float switch
<i>Instrument Power</i>	100 - 240VAC, 50/60 Hz, 0.5 A
<i>Air Source</i>	Shop or pump
<i>Optional Pump Power</i>	110 to 120 VAC, 60 Hz, 4.5 A 100 VAC, 50 Hz, 4.5 A 220 to 240 VAC, 60 Hz, 1.9 A
<i>Liquid Agitation Method</i>	Electromagnetic stirrer
<i>Fluid Degas Method</i>	Vacuum (requires optional pump)
<i>Fluid Compatibility</i>	Fluids compatible with stainless steel, glass and Teflon including: MIL-H-5606, MIL-H-83282, Shell Tellis™, Monsanto Skydrol™ version Akso Fyrquel™, Mobile Zerol™ 150, Marston Bentley HW 540 Monsanto Coolanol™, Stoddard Solvent, Jet Fuel (JP4, JP5) Kerosene, Diesel Fuel, Mineral Oil, Ethers, Alcohols, Aldehydes Ketones, Esters, Aromatics, Water
<i>Sensor Cleaning Methods</i>	Back flush, clean to count, and clean to volume
<i>Particle Size Range</i>	0.5 µm to 600 µm (sensor dependant)
<i>Number of Size Channels</i>	18
<i>Reporting Standards</i>	ISO, NAS, SAE, GOST, DOD and ASTM, User defined, Raw counts
<i>Calibrations</i>	Polystyrene spheres in DI water and glycol ACFTD in 5606 ISO-MTD in 5606 (except HRLD-400) ISO11171 in 5606 (except HRLD-400 & MC-05) ISO-MTD & ACFTD in 5606 (HRLD-100 & 150 only)
<i>Data Output</i>	pdf, tsv, import and export recipes over USB Web browser interface over Ethernet
<i>Languages</i>	English, French, German, Chinese, Italian, Spanish
<i>IP Rating</i>	IP30 per IEC 60529
<i>User Serviceable Items</i>	Desiccant, pneumatic and hydraulic filters
<i>Calibration Interval</i>	Recommend annual calibration
<i>Display</i>	7" color, non-touch screen
<i>Data Buffer</i>	3,000 records
<i>Printer</i>	Optional USB thermal printer
<i>Compliance Declarations</i>	CE, cETLus, KCc, C-Tic
<i>Smart Sensor Interface</i>	Smart Sensor Ready (allows for reading calibration information from sensors with onboard memory)

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