HIAC 8011+
LIQUID PARTICLE COUNTING SYSTEM

CHARACTERIZED
by ingenuity.

BECKMAN COULTER
Life Sciences

HIAC 8011+

LIQUID PARTICLE COUNTING SYSTEM

...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

Petrochemical Industry

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
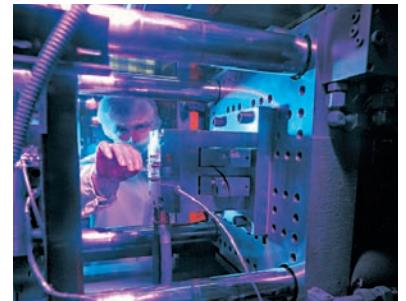
Injection Molding Plants

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

Marine Industry

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
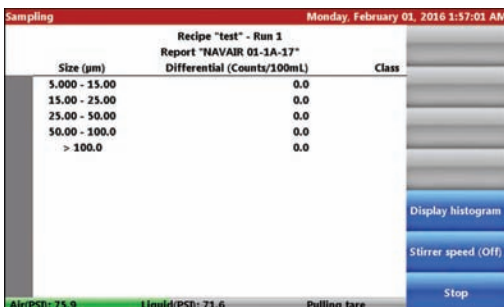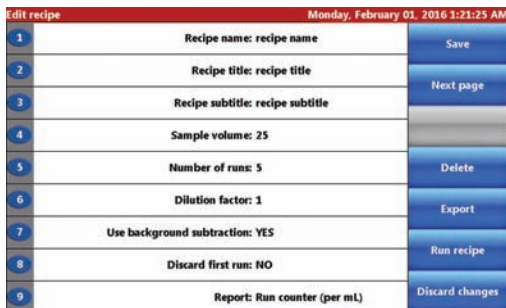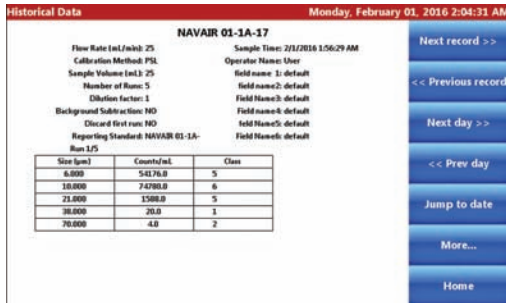
Aerospace Industry

Advancing Science Through Discovery

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

Specifications

Weight (without sensor)	58.2 lbs, (26.4 kg)
Sample Flow Rate	(mL/min) 10 to 100 (sensor dependent)
Sample Volume	(ml) 5 to 100
Tare Volume	(ml) 0.1 to 100 ml in 0.1 ml steps, not to exceed 1056 ml minus total sample volume
Flow Accuracy	+/- 2.5%
Viscosity Range	1-425cSt
Operating Pressure Range	maximum = 90psi
Operating Temperature Range	10 to 40˚C
Storage Temperature Range	-35 to -65˚C
Relative Humidity	10% to 80%, non-condensing
Max Altitude	6,500 ft.
Communication, Host I/O	Ethernet and 2 USB ports
Safety Feature	Waste container full alarm with optional float switch
Instrument Power	100 - 240VAC, 50/60 Hz, 0.5 A
Air Source	Shop or pump
Optional Pump Power	• 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
Liquid Agitation Method	Electromagnetic stirrer
Fluid Degas Method	Vacuum (requires optional pump)
Fluid Compatibility	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
Sensor Cleaning Methods	Back flush, clean to count, and clean to volume
Particle Size Range	0.5 µm to 600 µm (sensor dependant)
Number of Size Channels	18
Reporting Standards	ISO, NAS, SAE, GOST, DOD and ASTM, User defined, Raw counts
Calibrations	• 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)
Data Output	• pdf, tsv, import and export recipes over USB • Web browser interface over Ethernet
Languages	English, French, German, Chinese, Italian, Spanish
IP Rating	IP30 per IEC 60529
User Serviceable Items	Desiccant, pneumatic and hydraulic filters
Calibration Interval	Recommend annual calibration
Display	7" color, non-touch screen
Data Buffer	3,000 records
Printer	Optional USB thermal printer
Compliance Declarations	CE, cETLus, KCc, C-Tic
Smart Sensor Interface	Smart Sensor Ready (allows for reading calibration information from sensors with onboard memory)

For Beckman Coulter's worldwide office locations and phone numbers, please visit "Contact Us" at **beckman.com**