





CHARACTERIZED by ingenuity.



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

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.

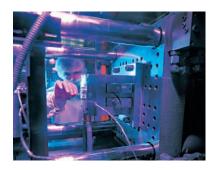
- One button sampling results under 60 secs
- Quickly load up to 20 custom test recipes
- Set up your own sampling recipe in less than 5 steps

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

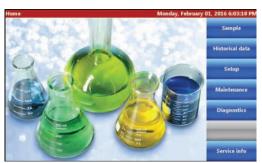
Eliminate printing and go paperless. Get the data immediately in a PDF or Excel® file.

- 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





		monday,	rebrasily (01, 2016 1:57:01 A
	Recipe "test" - F Report "NAVAIR 01	-1A-17*		
m)	Differential (Coun	ts/100mL)	Class	
15.00		0.0		
5.00		0.0		
0.00		0.0		
0.00		0.0		
.0		0.0		
				_
				Display histogran
				Stirrer speed (Off
	uld(PSD: 71.6	Pulling ta		Stop



	Administration of the Control of the	NAVAIR 01-1A-17		
Calibration N	Flow Rate (mL/min): 25		Time: 2/1/2016 1:56:29 AM	Next record >>
Calibration Method: PSL		Operator Names User		
Sample Volume (mt.): 25		field name 1: default		<< Previous recor
Number of Runs: 5		field name2: default		
Dilution	factor: 1	Field Name 3: default		
Background Subh	traction: NO	Field name-& default feld NameSc default		Next day >>
Discard fi	lest run: NO			
Reporting St	tandard: NAVAR 01-1	A- Field N	lametic default	70
Run 1/5				
Size (µm)	Counts/mL	Class		<< Prev day
6.000	54176.0	5		
10,000	74780.0	6		
21.000	1500.0	5		Jump to date
38.000	20.0	1		
36.000				

dit recipe	ry 01, 2016 1:21:25 A		
1	Recipe name: recipe name	Save	
2	Recipe title: recipe title	Next page	
3	Recipe subtitle: recipe subtitle		
4	Sample volume: 25		
3	Number of runs: 5	Delete	
6	Dilution factor: 1	Export	
7	Use background subtraction: YES	Run recipe	
8	Discard first run: NO		
9	Report: Run counter (per mL)	Discard change	



Specifications

Weight (without sensor)

Sample Flow Rate (mL/min) 10 to 100 (sensor dependent)

58.2 lbs, (26.4 kg)

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

Waste container full alarm with optional float switch Safety Feature

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)

Fluids compatible with stainless steel, glass and Teflon including:
• MIL-H-5606, MIL-H-83282, Shell Tellis™, Monsanto Skydrol™ version Fluid Compatibility

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

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)





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