Automated Vapor Pressure Analyzer

HVP 972

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herzog by PAC

Herzog's HVP 972 is the modern analytical instrument designed for accurate determination of vapor pressure of both automotive and aviation gasoline, turbine fuels, other light distillate petroleum products, crude oil, hydrocarbon solvents and chemical compounds.

The Herzog HVP 972 provides quick, accurate results of vapor pressure up to 1,000 kPa (145 psi) within a temperature range of 0 to 100°C. Significantly increase productivity with perfect repeatability and reproducibility through the power of complete automation.

Time saving, straightforward operation, backed by state-of-the-art technology and highest quality design, involves connecting the sample to the inlet port, selecting the measurement method and pressing the 'Start' key. Ptot, Pabs, DVPE, RVPE or ASVP are reported in a single run.

Sophisticated, built-in features meet rigorous quality assurance requirements. Calibration history and quality-check tracking assure complete results traceability.

The Herzog HVP 972 is an ideal tool for volatility specification compliance testing, process quality follow-up (at-line), fuel blending, research or mobile applications.

Unit display & keyboard overview

Optional PC software : Multi-instrument networking

Optional PC software : Backup/Restore the configuration and unit parameters

ADVANTAGES

- **Accurate determination of vapor pressure**
- **Fully automated measuring cycle**
- **Self-contained compact unit**
- **Versatile measuring modes**
- **Enhanced results traceability**
- **Quality-Check tracking**

APPLICATION RANGE

Volatility:
- **Gasoline**
- **Hydrocarbon-Oxygenates Mixtures**
- **Solvents**
- **Chemicals**
- **Turbine Fuels**
- **Crude Oil**

STANDARD METHODS

In compliance with:
- **ASTM D5191**
- **ASTM D6378**
- **EN 13016**
- **IP 394**
- **IP 481**

In correlation with
- **ASTM D323**
- **ASTM D4953**

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PAC Authorized Representatives are also located in most countries worldwide. For more information visit www.paclp.com

HERZOG BY PAC

Herzog, originally established in 1937, is a long-established comprehensive line of laboratory instruments for testing distillation, flash point, vapor pressure, bitumen testing, cold flow properties, viscosity and other physical properties of materials.

SPECIFICATIONS

Ordering Information	
Includes main unit, syringe, sampling tube, slope container, cables	
Standard Test Methods	
ASTM D 5191, ASTM D 6378, EN 13016, IP 394, IP 481 Correlates with: ASTM D 323; ASTM D 4953	
Measuring Programs	
Locally stores up to 50 standard or customized measuring programs	
Operation	
Measuring chamber	Nickel plated aluminum chamber with a total volume of 5 ml
Sample introduction	Via built in piston — automatically draws sample, no external vacuum pump required
Sample Volume	1ml (typically 10 ml of sample required, including rinsing and sampling)
Test Duration	Average 10 minutes for standard run
Temperature Range	User programmable from 0 – 100°C (32 – 212° F) Stability: 0.1ºC (0.2°F) single temperature, stepped or ramped temperature profiles No external cooling necessary
Pressure Range	0 – 1000 kPa Resolution: 0.1 kPa; Accuracy: 0.2 kPa, User selectable pressure units: hPa, kPa, psi, mmHg, bar, mbar
Liquid Vapor Ratio	Variable: 4 to 0,5
Cleaning	By next sample or by solvent; the cleaning method is a part of measuring program
Traceability	
Operators	Up to 20 operator names memorized
QC samples	Integral database for verification fluids tests; up to 5 profiles, each with target and allowed deviation settings; 50 last checks memory; printed reports; Pass/Fail notification for operator.
Hazy mark	If hazy appearance is observed, the result can be marked
Test Condition Verification	Message warning & audible alarms if test conditions are not correct
Quality Mark	The reported result is stamped with a quality mark if no derivation from given test condition was registered during run.
Alarm Tracking	All messages are stored in the database along with a result.
Calibration & Diagnostics	
Automated calibration routine; 10-point probe offset correction table; calibration history tracking; calibration reports-print out; continual self-diagnostic; enhanced service diagnostics on analyzer functions; unit parameters backup/restore feature with PC software.	
Documentation	
Detailed test report, date & time stamped; on-screen real time display of temperature and pressure; 100 results stored in memory; output to printer; transmitted to a PC and/or LIMS via built-in serial link. Multiple units can employ single printer or LIMS gateway by CAN-BUS protocol; Connector provided for barcode reader or external keyboard	
Requirements	
Electrical	100-240V/50-60Hz auto-switching; Power: 100 W
Dimensions & Weight	33cm (13”) W x 35cm (13.5”) D x 47cm (18.5”) H; 12 kg (26.5 lbs)
Accessories	
DC Adaptor	For +12V vehicle battery operation
Printer	Parallel DeskJet or Dot Matrix printer
Calibration Kit	Vacuum pump, gage and connectors for on-site calibration
PC Software	Multi-instrument networking, bi-directional communication
Carrying Case	For convenient transportation and storing the unit and accessories

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