SETA STANHOPE-SETA

SetaVap2 81000-2

Automatic mini vapour pressure tester

ASTM D5191; EN 13016-1; IP 394; IP 481; EN 13016-2 (37.8C); IP 409 (37.8°C)

Correlates with ASTM D323; D4953; D5482; D6378; IP 69; EN 12; JIS K2258; NF M07-079; ISO 3007; ASTM D4814 (Referee Method); EN 228 Gasoline Specification

Simple and cost effective vapour pressure measurement

- Fully automated
- Portable
- Simple test menu
- Rapid test results
- Greater measuring accuracy
- Small sample size, 3ml
- Low maintenance

Gasoline • Solvents • Crude Oil

P.O. Box 1128
Granger, IN 46530

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SetaVap2

The SetaVap2 is a benchtop automated instrument for measuring the vapour pressure of gasoline, solvents, light crude and similar products. It uses a fixed volume chamber controlled at a temperature of 37.8 ±0.1°C (100 °F) and a vapour to liquid ratio of 4:1. A digital display instructs the operator through the test sequence and displays the test result and status information.

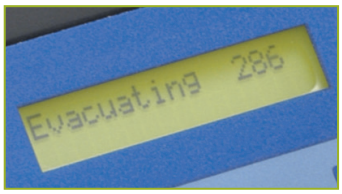
Typical Applications

Vapour pressure testing is used by major global refineries, oil and pipeline companies, laboratories and vechicle manufacturers when testing gasoline, crude oil, solvents and other hydrocarbons. These are tested to measure fuel performance, emissions, engine efficiency, transport and storage safety, fuel blending and quality control.

Test Method

The sample is injected through a septum into the fully evacuated and sealed chamber. Pressure readings are evaluated at one minute intervals, when the reading reaches a value which is stable within 0.1kPa for three minutes, the value is recorded.

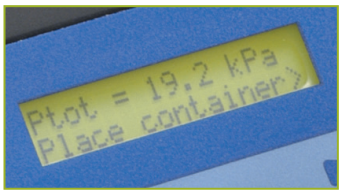
Operator Interface



Quickly and easily start test

Inject sample

Test is automatic



View results

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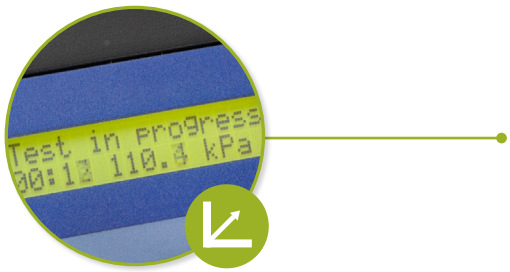
Low Cost

- Small sample size of only 3ml means less waste and disposal costs
- Low maintenance and automated calibration
- No specialist maintenance is required due to no moving pistons

Ease Of Use

- Simple on screen menu
- 'Press to test' operation
- Instrument automatically purges the sample and evacuates the chamber ready for next test
- Suitable for limited space, remote 'at line' or jetty operational areas



Enhanced Test Throughput

- Rapid test results, vapour pressure of gasoline is measured in less than 5 minutes
- Previous sample is completely evacuated to ensure no 'carry-over'
- No chamber cleaning or flushing is needed for gasolines

Precision and Accuracy

- Evacuated chamber technology for reliable operation and ease of service
- Evacuated chamber guarantees sample is tested under full vacuum as required by test method
- Greater measuring accuracy ensures less 'give-away'

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Technical Specifications

SetaVap 2 81000-2	
Sample size	3 ml
Test temperature range	37.8°C (100°F) ±0.1°C
Test pressure range	0 to 200kPa ±0.5kPa (0 to 29psi ±0.1psi)
Pressure resolution	±0.1°kPa (0.1psi)
Sample size	3ml
Vapour to liquid ratio	4:1
Display units of pressure	kPa or psi (user selectable)
Results	shown in Ptot, DVPE, EPA, Crude & Pabs
Vacuum requirement	better than 0.01kPa (abs)
Voltage/Power	110/120V or 220/240V, 50/60Hz (switchable) / 70W
Size (H x W x D)	37 x 13 x 20 cm
Weight	3.5 kg

Minimal Servicing

Weekly:

- Check performance

6 Monthly:

- Verify pressure and temperature measurement

Required Accessories

Part Number		Description
22422-6		Vacuum pump Maximum vacuum 2 x 10^{-2} mbar. Includes tubing, lubricating oil and oil mist filter
81003-0		Syringe with Luer lock 5ml, includes 2 needles
22420-033		Septum Pack of 250

Optional Accessories

Part Number		Description
80004-0		Vacuum pump Maximum vacuum 1.5 x 10^{-3} mbar. Includes tubing, lubricating oil and oil mist filter
81002-3		Data printer
93700-0		Laboratory refrigerator

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