

VISCOlab 5000



VISCOlab 5000

The VISCOlab 5000 requires only 75 μ L of sample for accurate and repeatable results: the smallest sample requirement for any automated viscosity measurement system available today. The sample is simply introduced to the measurement chamber via pipette. Then the VISCOlab 5000 takes over, controlling the temperature, measuring the viscosity, logging the data and reporting the results on the screen or optional printer.

The tests are performed at the desired temperature through an embedded Peltier cell without requiring temperature-control fluids.

Technology Overview

The core of the system is a Cambridge Viscosity electromagnetic viscometer. The VISCOpro electronics continuously drive a piston with a magnetic field through the fluid to measure viscosity. The VISCOlab

software controls and monitors the tests and ensures stability and accuracy of the measurement. Internal to the sensor is a PT100 temperature sensor to provide accurate temperature measurements.

KEY FEATURES

Easy to Use and Maintain

- Accurate and reliable
- Digital displays of centipoise and centistokes
- Digital temperature display in $^{\circ}$ C or $^{\circ}$ F
- RS232 Interface
- Integrated Peltier temperature control
- Minimum bench space required
- Automatic cleaning technology due to constantly moving piston

Enhanced Features

- Minimizes waste by requiring 75 μ l of fluid with over 50% recoverable
- Easy integration into LIMS program
- Statistical analysis of viscosity data

APPLICATION RANGE

- Viscosity measurements from 1 - 50 centipoise.

STANDARD METHODS

- Complies with ASTM D7483
- Correlates with ASTM D445



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SPECIFICATIONS

Sample Size	<75 micro-liters
Throughput Time	< 20 minutes per test
Viscosity Accuracy	+/- 3.5% of reading throughout range
Viscosity Repeatability	+/- 1% of reading
Viscosity Range	1-50cP
Temperature Range	20°C-40°C
Temperature Control Accuracy	+/- 0.1°C
Benchtop Dimensions	21 in. (depth) x 20 in. (combined length)
Wetted Materials	316L SS, Teflon, 430 SS



Lab technician is introducing test sample to temperature-controlled measurement chamber.



Cambridge Viscosity

With more than 10,000 installations worldwide, Cambridge Viscosity is the proven leader in small sample viscosity management technology. With over 25 years of experience, Cambridge Viscosity understands and meets the needs of laboratory researchers and process engineers in a wide range of industries whose jobs depend on the quality, accuracy, and reliability of viscosity measurement equipment. With their patented sensor technology, Cambridge Viscosity has become the gold standard in the industry.



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