Viscol 10B

High Temperature Kinematic Viscometer

ASTM D445, ASTM D446, ISO 3104, ISO 3105, IP 71



Viscol 10B is a fully automated single-bath kinematic viscometer according to ASTM D445/D446 and related standards. The unit is designed with special components for high temperature kinematic viscosity measurements of all newtonian type fluids up to 170°C.

All Viscol Series Kinematic Viscometers are equipped with the latest temperature control, time detection and washing features to minimize any potential errors and to ensure consistent and precise results for each measurement.

As other Viscol Series instruments, Viscol 10B doesn't require an operator for sampling, measurement or washing and follows the whole progress full automatically.

Viscol 10B is a stand-alone unit, ready to go, without the need of an external PC for any operations as measurement, washing or to check analysis history. Windows based wide-screen touch panel PC is designed to control the unit with a user-friendly interface.

Key Benefits

Single Bath Design: Single bath with wide temperature range for various sample types.

Sensitive Temperature Control: 0.001°C temperature control sensitivity within wide temperature range.

Automatic Operation: Fully automated sampling, measurement, calibration and cleaning mechanism.

Wide Measurement Range: Suitable for a wide range of samples and applications.

Precise Measurement: Achieve highest accuracy with unattented analysis and calibration.

Unique Cleaning: Standard dual-solvent design.

User-Friendly Interface: Windows based touch screen panel and device software for simplified operation.

Data Integration: Easily export and integrate your data with lab management systems and Viscosoft software.

Safety: Built-in temperature and bath liquid level safety features and alarms to ensure secure operation.

Time-Saving: Automated sampling, measurement and washing features to increase operator efficiency.

Economic: Lower solvent consumption by full automatic washing and drying system.

Specifications

Methodology	ASTM D445, ASTM D446, ISO 3104, ISO 3105, IP 71
Viscometer type	Ubbelohde
Viscometer range	170 - 225 Fold
Temperature range	10°C to 170°C
Temperature sensitivity	0.001°C
Temperature stability	0.005°C
Time detection precision	0.001 s
Measurement range	0.15 cSt - 30000 cSt
Sample volume	10-15 mL
Cleaning	Dual solvent
Display	7" Touch Panel Screen
Data transfer	USB & Ethernet (RJ45)
Cooling	Built-in cooling coil
Security	Low Bath Oil & Over Temperature Safety Interlocks
Weight	40 Kg
Dimensions	30 x 50 x 80 cm
Power requirement	220 VAC - 50 Hz
Pre-heating options	**VISC-SPH** Sample Pre-heater (Built-in) **VISC-PSPA** Programmable Sample Pre-Heater (Built-in) **VISC-PSNH** Programmable Sample & Nozzle Heater (Built-in) **VISC-MSPH** Multi-sample Pre-Heater (External)
CE Mark	

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Viscol 10B Features

Automatic Viscosity Measurement

Viscol 10B follows sampling, measurement and cleaning operations without the need of an operator full automatically. Automatic and standardized measurements ensure highest precision and avoid any human errors during analysis.

Wide Measurement Range

Viscol Series Kinematic viscometers are provided with wide-range viscometer tubes from 170 to 225 Folds to cover widest viscosity measurement without the requirement of tube replacement.

Unique Capillary Cleaning

Viscol 10B instruments are provided with dual-solvent washing feature to ensure better cleaning and drying at different temperatures.

Contactless Sample Detection Block

Specially designed detection block provides contactless and precise measurements for both light and dark color samples. Sensors which are located outside the viscometer tube, ensures no contact with the samples to avoid any possible damages by wear metal and/or contaminants. By this detection block design, sensors are always kept in their place and they are not embedded to the viscometer tube which leads to affordable tube replacements if required.



Precise Temperature Control

All Viscol Series instruments are equipped with latest temperature control components to provide precise temperature stability during measurements. As temperature is the main factor effects to viscosity, precise temperature control leads to most repetable results.

Wide Touch Screen Control Panel

Viscol 10B is a stand-alone unit without the requirement of an external PC to follow any operations. The device has 7” touch panel Windows PC for all control and reporting activities.

Full Automatic Calibration

All Viscol Series Instruments are factory tested and calibrated before the delivery. But also calibrations can be carried by the users at anytime. Viscosity reference standards can be introduced through the calibration menu and device will follow the progress full automatically. After the process is done users are notified with the new constant values that are ready to be saved.

Viscosoft Control & Data Evaluation Software

Viscosoft software can be used to control one or multiple units and collect all results to one central PC if desired. Viscosoft software allows users to add samples, create analysis lists, control the operations and get direct ready-to-print viscosity and/or viscosity index reports in one central location.

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