

Viscol 20 AS

Dual-Bath Automatic Kinematic Viscometer

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

Viscol 20AS is a fully automated dual bath kinematic viscometer with 23 position autosampler for each bath. The unit is equipped with latest temperature control, time detection and washing features to minimize potential human errors while ensuring consistent and reliable results for each measurement.

Viscol 20AS Dual Bath Kinematic Viscometer offers sensitive temperature control and wide viscosity range with two separate baths for simultaneous measurements at two different temperatures. Sampling nozzles are designed with special nozzle wash & dry (SPW) feature to avoid any cross contamination between samples.

Viscol 20AS is a stand-alone unit, ready to go, without the need of an external PC for any operation as measurement, washing or to check analysis history. Windows based wide-screen touch panel PC is designed to control each bath separately with a user-friendly interface.



Key Benefits

Dual Bath Design: Simultaneously operate at two different temperatures for enhanced productivity.

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 unattended analysis and calibration.

Unique Cleaning: Standard dual-solvent design in each bath with SPW feature to avoid any contamination.

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 120°C * Other temperatures (optional)
Temperature sensitivity	0.001°C
Temperature stability	0.005°C
Time detection precision	0.001 s
Carousel Capacity	23 samples
Measurement range	0.15 cSt - 30000 cSt
Sample volume	10-15 mL
Cleaning	Dual solvent per bath & SPW
Display	12" Touch Panel Screen
Data transfer	USB & Ethernet (RJ45)
Cooling	Built-in cooling coil per bath
Security	Low Bath Oil & Over Temperature Safety Interlocks
Weight	100 Kg
Dimensions	60 x 60 x 90 cm
Power requirement	220 VAC - 50 Hz
NATO Stock Number (NSN)	6630270728837
CE Mark	

Viscol 20AS Features

Automatic Viscosity Measurement

Viscol 20AS 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 & Nozzle Cleaning

Viscol 20AS instruments are provided with dual-solvent washing feature to ensure better cleaning and drying at different temperatures. The unique SPW nozzle washing technology seals the nozzle to the waste container and ensures no solvent or vapor leak during washing. Sampling nozzles are also washed and dried after each sample to avoid any cross-contamination between samples.

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.

Non-stop Operation

Viscol 20AS is specially designed for high-throughput facilities and laboratories where large amount of viscosity tests are requested. The unique design of the autosamplers allows users to add new samples without pausing or interrupting the system.

Wide Touch Screen Control Panel

Viscol 20AS is a stand-alone unit without the requirement of an external PC to follow any operations. The device has 12" Wide-screen touch panel Windows PC for all control and reporting activities. Device software is divided into two sections to control each viscometer bath separately.

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.

