

U-Visc kinematic viscometer

FULL RANGE OF AUTOMATIC VISCOMETRY SYSTEMS FOR LUBRICANTS AND OTHER PETROLEUM PRODUCTS



"The U-Visc viscometry system was designed with full ASTM D445 compliance in mind, combined with low solvent consumption, high unattended throughput, ease of use and reliability".



FULLY
AUTOMATIC



HIGHLY
ACCURATE



AUTOSAMPLER
CARROUSEL



VACUUM OR PRESSURE
SAMPLING



HIGH
THROUGHPUT

FEATURES

- Autosampler carousel
- Sampling using vacuum or pressure
- High throughput
- Optional duplo viscometer tubes for unstable samples

The Omnitek U-Visc combines several unique features, making it the instrument of choice in many applications, ranging from QC to R&D to used oil analysis. While offering full compliance with ASTM D445/446, the specially designed viscometer tubes cover a 100-fold range.

Versatile and reliable

The tubes are based on the well-known and proven Ubbelohde design, but only require 8-16 ml of sample and approx. 12-15 ml of solvent for each cleaning cycle. Available with single or dual solvent cleaning, the instrument measures kinematic viscosity in lubricants between 0.15 and 25,000 mm²/s.

Designed to be versatile and flexible, yet easy to use. Different models are available ranging from 1 bath with 1 or 2 tubes, up to 2 baths with 1 or 2 tubes per bath, where each bath works independently. Sophisticated temperature control ensures that measurements are carried out according to D445 requirements. Each bath features a sampling tray with 16 samples per tube, allowing completely unattended operation at different temperatures. Depending on the viscosity of the sample, the instrument can process up to 10 samples per tube per hour, leading to a maximum capacity of up to 40 samples per hour, satisfying even the needs of high volume labs running several hundred samples per day.

The U-Visc requires a PC for operation but can also be controlled as a stand-alone unit through the responsive color touchscreen interface. For data collection, storage, calculations and reporting, an advanced PC software application is provided with the instrument, which can gather data from multiple instruments simultaneously.

For 200 series, if the baths are run at 40 and 100°C, the instrument will automatically calculate the sample's Viscosity Index, based on the results from both baths.

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SPECIFICATIONS

Measuring range	0.15 - 25,000 mm ² /s @ 40°C
Temperature range	15 - 150°C *
Temperature stability	15°C to 100°C ± 0.01°C *, Up to 150°C, ± 0.03°C
Sample volume	8 - 16 ml
Solvent consumption	12 - 15 ml per cycle
Maximum throughput	40 samples per hour
Viscometer type	Ubbelohde based
Sensor type	Thermal / optical
PC Control	Multiple instruments controlled with 1 PC
Data export	USB

* For temperatures around ambient, an external chiller is required

THE U-Visc IS SUPPLIED WITH

100-fold viscometer tubes
Bath oil
Reference standards
Advanced PC software
All parts required for standard operation
Dual solvent injection

OPTIONS AND ACCESSORIES

Sample preheater
Digital thermometer
Duplo measurement
Optical sensors

AVAILABLE MODELS

	U-Visc 110	U-Visc 120	U-Visc 210	U-Visc 220
Nr. of baths	1	1	2	2
Tubes / bath	1	2	1	2
Nr. of samples	16	32	32	64
Dimensions	38 x 62 x 78 cm		75 x 62 x 78 cm	
Weight	54 kg		92 kg	



U-Visc 110 / 120



U-Visc 210 / 220



OMNITEK

Coenecoop 715 Tel : +31 (0)182-302990
 2741 PW Waddinxveen Fax : +31 (0)182-302999
 The Netherlands info@omnitek.nl

www.omnitek.nl

Your authorized distributor is:

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