

U-VIsc kinematic viscometer

Full range of automatic viscometry systems for lubricants and other petroleum products

The U-VIsc viscometer series

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, e.g. from 1 to 100 mm²/s.

"The U-VIsc viscometry system provides users with very high throughput, unattended operation and delivers the ultimate in kinematic viscosity testing"



The tubes are based on the well-known and proven Ubbelohde design, but only require 8-12 ml. of sample and approx.10-15 ml. of solvent for each cleaning cycle. Available with single or dual solvent cleaning, the instrument measures kinematic viscosity in lubricants between 0.5 and 10,000 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. 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. 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 touch screen interface. For data collection, storage, calculations and reporting, an advanced PC software application is provided with the instrument, which can gather data from up to 4 instruments simultaneously.

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.

"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."

Features

- Compliant with requirements for ASTM D445, D446 and related specifications
- High throughput: up to 40 samples per hour
- Easy tube exchange. Back to work in minutes without the need for a service tech
- Thermal / optic detection
 available to meet any
 application requirement

- Very easy to use and maintain
- Advanced touch screen
- No external vacuum required
- Sampling using vacuum or pressure allows analysis of volatile samples

- Single or dual solvent injection to meet any application requirement
- Fully functional as a stand alone unit but advanced PC software available
- Chemically resistant to allow for all common solvents
- Optional fast-run tubes further reduce solvent consumption and increase throughput

Full range of automatic viscometry systems for lubricants and other petroleum products

The U-VIsc is supplied with:

100-fold viscometer tubes

Bath oil

Calibration standards

Advanced PC software

All parts required for standard operation

Options and accessories

Dual solvent option

Cooling spiral & chiller

Sample preheating

Pedestal base

Digital thermometer

Specifications

Applicable standards	ASTM D445, D446, D2270, ISO 3104, 3105 and related standards for kinematic viscosity		
Measuring range	0.5 - 10,000 mm²/s @ 40 ºC		
Temperature range	20 - 150º C*		
Temperature stability	±0.005°C @ 40° C, ±0.01 @ 100° C		
Sample volume	8-16 ml		
Solvent consumption	12-15 ml per cycle		
Sample throughput	up to 40 samples per hour		
Viscometer type	Modified Ubbelohde		
Sensor type	Thermal / optical		
PC Control	Multiple instruments controlled with 1 PC		

^{*} For temperatures around ambient, an external chiller is required for temperatures above 110°, a high temperature option is required

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.	

Your authorized distributor is :



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