



U-Vlsc kinematic viscometer

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

The U-Vlsc viscometer series

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

Versatile and reliable

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-Vlsc 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-Vlsc 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

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|---|---|--|
| <ul style="list-style-type: none"> Compliant with requirements for ASTM D445, D446 and related specifications | <ul style="list-style-type: none"> Very easy to use and maintain | <ul style="list-style-type: none"> Single or dual solvent injection to meet any application requirement |
| <ul style="list-style-type: none"> High throughput: up to 40 samples per hour | <ul style="list-style-type: none"> Advanced touch screen | <ul style="list-style-type: none"> Fully functional as a stand-alone unit but advanced PC software available |
| <ul style="list-style-type: none"> Easy tube exchange. Back to work in minutes without the need for a service tech | <ul style="list-style-type: none"> No external vacuum required | <ul style="list-style-type: none"> Chemically resistant to allow for all common solvents |
| <ul style="list-style-type: none"> Thermal / optic detection available to meet any application requirement | <ul style="list-style-type: none"> Sampling using vacuum or pressure allows analysis of volatile samples | <ul style="list-style-type: none"> 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-Vlsc 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 mm ² /s @ 40 °C |
| Temperature range | 20 - 150° 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-Vlsc 110 | U-Vlsc 120 | U-Vlsc 210 | U-Vlsc 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. | |

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