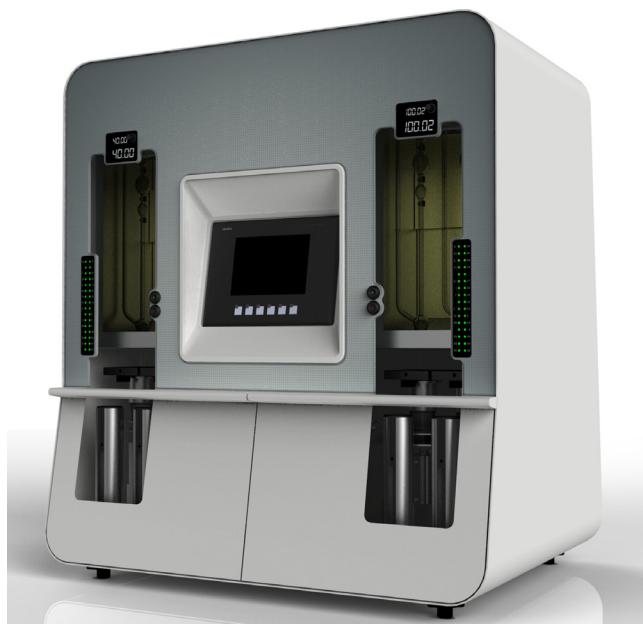


U-VIsc automatic viscometer

Features

- ▶ Autosampling enables fully unattended operation
- ▶ 100-fold tube range eliminates the need to exchange tubes
- ▶ Two independent baths can measure between ambient and 110° C
- ▶ Fully compliant with ASTM D445/446, 2270 and ISO 3104/3105
- ▶ Specially designed tubes result in small sample volume and low solvent consumption
- ▶ Integrated Viscosity Index calculation
- ▶ Compact, rugged design, built to last and low on maintenance

"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."



The U-VIsc dual bath viscometer

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 cSt. 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 cleaning. Available with single or dual solvent cleaning, the instrument measures kinematic viscosity in lubricants between 0.5 and 5,000 cSt.

The instrument is compact, saving costly bench space. It is fitted with two independent baths, which each contain 2 wide-range viscometer tubes. Sophisticated temperature control ensures that measurements are carried out according to D445 requirements. Each bath features a 32-position sampling tray (16 samples per tube), allowing completely unattended operation. Depending on the viscosity of the sample, the instrument can process 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 through the advanced color touch screen interface. For data collection, storage, calculations and reporting, an advanced PC 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.

Dual bath kinematic viscometry system with integrated Viscosity Index

Specifications

The U-Vlsc comes
complete with :

- ▶ 4 100-fold viscometer tubes
- ▶ 20 liters of bath oil
- ▶ 2 calibrated thermometers
- ▶ 4 calibration standards
- ▶ Advanced PC software
- ▶ 2 32-position sample trays
- ▶ All parts required for standard operation

Measuring range	0.5 - 5,000 cSt @ 40 °C
Temperature range	25 - 110° C *
Temperature stability	±0.005°C @ 40° C, ±0.015 @ 100° C
Sample volume	8-12 ml
Solvent consumption	12-15 ml per cycle
Sample throughput	up to 40 samples per hour
Applicable standards	ASTM D445, D446, 2270, ISO 3104 and 3105 and related standards for kinematic viscosity
Dimensions	705 x 588 x 693mm. (l x w x h)
Viscometer type	Modified Ubbelohde
Sensor type	Thermistor
Communication	RS-232C

* For temperatures around ambient, an external chiller is required

Viscometer tube ranges

Article nr.	Measuring range	Article nr.	Measuring range
92.200.0-003	0.2 - 15 cSt	92.200.0-30	15 - 800 cSt
92.200.0-01	0.5 - 50 cSt	92.200.0-50	25 - 1200 cSt
92.200.0-02	1.0 - 100 cSt	92.200.1-00	50 - 1500 cSt
92.200.0-03	1.5 - 150 cSt	92.200.2-00	100 - 2000 cSt
92.200.0-05	2.5 - 250 cSt	92.200.3-00	150 - 2500 cSt
92.200.0-10	5.0 - 500 cSt	92.200.5-00	250 - 3500 cSt
92.200.0-20	10 - 1000 cSt	92.200.10-00	500 - 5000 cSt

Accessories

Article nr.	Description
95.500.02	External chiller for measurements around ambient temperature
92.100.00	Dual solvent option
95.240.00	PC for data acquisition and instrument control, preconfigured
92.330.00	Spare parts for 2 years normal operation
92.110.00	High temperature extension (required for temperatures over 110° C, maximum temperature 150° C)



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