

UltraVIS®

High Speed, Solvent-Free Kinematic Viscometer

For Rapid Kinematic Viscosity of Transparent and Opaque Liquids
ASTM D445 Precision Capability

The CANNON UltraVIS is a fully automated, high speed, solvent-free viscometer for rapid kinematic viscosity measurement of transparent and opaque liquids with ASTM D445 precision capability. A 192-position sample handler (two 96-position trays) allows unattended processing of up to 30 samples per hour. The fast-run tube covers a 10-fold viscosity range at values between 5 mm²/s (cSt) and 50 mm²/s (cSt) at 100 °C. The UltraVIS is optimized for condition monitoring of used oils.

Common Applications

- In-service oil viscosity
- Used oil analysis
- Fleet maintenance
- Condition monitoring

Precise, Robust Design

- Temperature range: 100 °C (± 0.01 °C)
- Viscosity range: 5 mm²/s (cSt) to 50 mm²/s (cSt) at 100 °C
- A well tested CANNON viscometer platform offers reliability and dependable support
- Large, intuitive, color touchscreen for easy operation

High Speed Analysis & Rapid Output

- Fast analysis time: typically 2.5 minutes or less per test, for 30 samples per hour
- Two 96-position removable sample trays allows for high output (192 samples) and unattended operation
- Follows most ASTM D445 principles but with shorter flow times to accommodate rapid analysis

Fully Automated Benchtop Testing

- Eliminates labor intensive tasks of sample measurement and viscometer tube washing
- Stand-alone operation with USB port
- Single PC manages up to four instruments for LIMS accessory
- Multi-colored Beacon Light easily distinguishes sample phases

Reduced Consumable Costs

- Save time and money – no need for solvent
- Uses disposable, low-cost HDPE sample vials
- Solid bath design requires no bath fluid

Solvent-Free
Operation!



CANNON
INSTRUMENT COMPANY

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UltraVIS® High-Speed, Solvent-Free Kinematic Viscometer

Ordering Information

UltraVIS Solventless Kinematic Viscometer consists of the viscometer unit, two 96-position sample trays, and external vacuum pump. One viscometer tube, a set of viscosity standards, a case of HDPE vials, and data storage/management software are also included.

Instrument is stand-alone but optional computer (sold separately) is recommended for connecting to LIMS (Laboratory Information Management System).

Description	Part #
100 VAC, 50/60 Hz	9729-A00
115 VAC, 60 Hz	9729-A05
230 VAC, 50/60 Hz	9729-A10

Accessories & Consumables

Description	Part #
Viscosity reference standards	
N35	9727-C37.016
N100	9727-C42.016
N350	9727-C47.016
Vials (polypropylene, round bottom); pack of 1,000	81.2548
Extra sample tray	83.0196

Product Specifications

Dimensions (W x D x H)	Unit: 60.9 cm x 60.9 cm x 77.5 cm (24 in x 24 in x 30.5 in) Vacuum Pump: 23 cm x 32.4 cm x 20 cm (9.1 in x 12.75 in x 8 in)
Weight	Unit: 47.2 kg (104 lb) Vacuum Pump: 7.25 kg (16 lb)
Max. throughput	30 tests per hour
Automated sample capacity	192
Viscosity range	5 mm ² /s (cSt) to 50 mm ² /s (cSt) at 100 °C
Timing resolution	0.001 s
Test temperatures & accuracy	100 °C ± 0.01 °C
Minimum sample volume	4 mL to 5 mL sample
Operating conditions	15 °C to 30 °C, 10% to 75% relative humidity (non-condensing), Installation Category II; Pollution Degree 2
Electrical specifications	100 VAC, 50/60 Hz; 115 VAC, 50/60 Hz; 230 VAC, 50/60 Hz; 225 watt power consumption
Compliance	CE Mark; EMC directive (2004/108/EC); Low voltage directive (2006/95/EC); HI-POT (1900 VDC, 60 sec.); ROHS
Data output	USB



CANNON Instrument Company® provides a variety of physical property testing equipment and consumables (vials, bath fluids, and reference materials) for your testing needs. To learn more, contact sales@cannoninstrument.com.



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