

miniAV[®]-LT is a fully automated, single sample, benchtop viscometer for low temperature [sub-zero] viscosity testing. The viscometer tube covers a 10-fold viscosity range for values between 1 mm²/s [cSt] and 20,000 mm²/s [cSt] from -20 °C to +30 °C.

Common Applications

- Jet fuel
- Turbine oils
- Hydraulic fluids
- Transformer oils

miniAV[®]-LT

Single-Bath Sub-Zero Kinematic Viscometer

For Sub-Zero Kinematic Viscosity of Transparent and Opaque Liquids
ASTM D445/D446, ASTM D1655, ASTM D2532, DEF STAN 91:91, IP71, ISO 3104/3105

Product Features & Benefits

D445 precision in a compact, robust design

- Temperature range: -20 °C to +30 °C
- Viscosity range: up to 20,000 mm²/s [cSt] in 10-fold increments
- Fits in roughly the same bench-top area as an analytical balance
- Peltier cooling is environmentally friendly and requires no pressurized coolants (an air-water heat exchanger is included)
- A well tested CANNON viscometer platform offers reliability and dependable support

Fully automated bench-top testing and reduced consumable costs

- Affordable alternative to labor-intensive manual KV testing
- Single PC manages up to 4 instruments using VISCPRO[®] software
- Automated vial washing & drying reduces vial consumption and replaces manual washing

Simplified maintenance & test versatility

- Modular bath for easy maintenance access
- Operators physically replace tubes in minutes, eliminating the need to schedule related service calls
- Single-point temperature calibration avoids tube recalibration costs and maximizes test flexibility
- Standard dual solvent input



Professional installation, VISCPRO[®] data storage and management software, viscometer tube, standards, and a high precision digital thermometer are included



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Ordering Information

miniAV[®]-LT Single Bath Sub-Zero Kinematic Viscometer consists of the viscometer unit, air-water heat exchanger, external power supply, waste receiver assembly, one viscometer tube, one set of viscosity standards, a case of glass vials, a high precision digital thermometer with probe, VISCPRO[®] data storage/management software and professional installation. Specify desired factory installed options and viscometer tubes when ordering. Computer sold separately.

NOTE: A source of dry air or nitrogen is required to ensure optimal temperature stability and avoid frequent dessicant replacement.

Description	Part #
100 VAC, 50/60 Hz	9725-A96
115 VAC, 50/60 Hz	9725-A94
230 VAC, 50/60 Hz	9725-A95

Options

Additional temperature calibrations (for each temperature beyond the first) are also available for an added charge at the time of ordering.

Accessories & Consumables

Description	Part #
Viscosity reference standards	various
Replacement silicone bath fluid, 5 cSt, 1 L	9726-L41
20 mL vials (glass); case of 40	81.3023
Spare parts kit (1 year supply)	81.2910

Product Specifications

Dimensions (W x D x H)	Unit: 25.4 cm x 30.5 cm x 53.4 cm [10 in x 12 in x 21 in] Power Supply: 34.3 cm x 39.6 cm x 17.2 cm [13.5 in x 15.6 in x 6.8 in] Waste Receiver: 33.0 cm x 39.6 cm x 17.2 cm [13.0 in x 15.6 in x 6.8 in] Air/Water Heat Exchanger: 38.6 cm x 51.1 cm x 34.9 cm [15.2 in x 20.1 in x 13.7 in]
Weight	Unit: 27 kg [45 lb] Power Supply: 11 kg [24 lb] Waste Receiver: 6 kg [13 lb] Air/Water Heat Exchanger: 14 kg [30 lb]
Shipping dimensions (W x D x H)	Box 1: 73.7 cm x 63.5 cm x 94.0 cm; [29 in x 25 in x 37 in] Box 2: 76.2 cm x 58.4 cm x 83.8 cm; [30 in x 23 in x 33 in] Box 3: 15.2 cm x 15.2 cm x 28.0 cm; [6 in x 6 in x 11 in]
Shipping weight (with all items)	98.9 kg [218 lb]
Max. throughput	1 test per hour
Automated sample capacity	1
Viscosity range	Up to 20,000 mm ² /s [cSt] in 100-fold increments (depending on viscometer tube selection).
Timing resolution	0.01 s [timing accuracy to ± 0.001 s]
Temperature range & accuracy	-20 °C to 30 °C ± 0.02 °C
Minimum sample/ solvent volume	5 mL sample*/15 mL solvent per test
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; 1,000 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	RS-232 and RS-485

Viscometer Tubes

Std Tubes	Part #	Std Tubes	Part #
KV Range in mm ² /s [cSt]		KV Range in mm ² /s [cSt]	
1 - 10	12.0323	100 - 1,000	12.0328
5 - 50	12.0324	170 - 1,700	12.0531
10 - 100	12.0325	500 - 10,000	12.0326
30 - 300	12.033	1,000 - 20,000	12.0327

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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