

CANNON® miniAV-LT is a fully automated, single sample, benchtop viscometer for low temperature (sub-zero) viscosity testing. The viscometer tube covers a viscosity range from 5–50 cSt at –20 °C and –40 °C.

#### Common Applications

- Natural Petroleum Based and Synthetic Jet Fuels

# miniAV®-LT

## Single-Bath Sub-Zero Kinematic Viscometer

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

### D445 precision in a compact, robust design

- Temperature testing at –20 °C and –40 °C
- Viscosity range: 5–50 cSt
- Fits in roughly the same bench-top area as an analytical balance
- A trusted 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
- VISCPRO® PC software enables one computer to manage and control up to four instruments
- Automated vial washing & drying reduces vial consumption and replaces manual washing
- ASTM D446/ISO 3105 Ubbelohde-style tube reduces solvent usage and disposal costs by 50%

### Simplified maintenance & test versatility

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



**INCLUDES**  
✓ VISCPRO Software  
✓ Viscometer Tube  
✓ Standards  
✓ Digital Thermometer

**CANNON**  
INSTRUMENT COMPANY

2139 High Tech Road | State College | PA | 16803  
800-676-6232 | 814-353-8000 | Fax 814-353-8007

sales@cannoninstrument.com | cannoninstrument.com

# miniAV<sup>®</sup>-LT Single-Bath Sub-Zero Kinematic Viscometer

## Ordering Information

CANNON<sup>®</sup> miniAV-LT Single Bath Sub-Zero Kinematic Viscometer consists of the viscometer unit, chiller\*, 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, and VISCPRO<sup>®</sup> data storage/management software. The first temperature calibration is included and for each temperature after the first is available for an added charge at the time of ordering.

Computer sold separately.

\*Chiller is not included with 100 VAC, 50/60 Hz unit

Description	Part #
100 VAC, 50/60 Hz	9725-G30
115 VAC, 50/60 Hz	9725-G10
230 VAC, 50/60 Hz	9725-G20

## Accessories & Consumables

Description	Part #
Viscosity reference standards	various

## Product Specifications

Dimensions (W x D x H)	<b>Unit:</b> 25.4 cm x 30.5 cm x 53.4 cm (10 in x 12 in x 21 in) <b>Power Supply:</b> 34.3 cm x 39.6 cm x 17.2 cm (13.5 in x 15.6 in x 6.8 in) <b>Waste Receiver:</b> 33.0 cm x 39.6 cm x 17.2 cm (13.0 in x 15.6 in x 6.8 in) <b>Chiller:</b> 225 mm x 360 mm x 380 mm (8.86 in x 14.17 in x 14.96 in)
Weight	<b>Unit:</b> 27 kg (45 lb) <b>Power Supply:</b> 11 kg (24 lb) <b>Waste Receiver:</b> 6 kg (13 lb) <b>Chiller:</b> 23 kg (50.72 lb)
Shipping dimensions (W x D x H)	<b>Box 1:</b> 73.7 cm x 63.5 cm x 94.0 cm; (29 in x 25 in x 37 in) <b>Box 2:</b> 76.2 cm x 58.4 cm x 83.8 cm; (30 in x 23 in x 33 in) <b>Box 3:</b> 15.2 cm x 15.2 cm x 28.0 cm; (6 in x 6 in x 11 in)
Total shipping weight	98.9 kg (218 lb)
Max. throughput	1 test per hour
Automated sample capacity	1
Viscosity range	5-50 cSt
Timing resolution	0.01 s (timing accuracy to $\pm 0.001$ s)
Temperature range & accuracy	-20 °C $\pm$ 0.02 °C -40 °C $\pm$ 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

†Installation outside the domestic U.S. may incur additional charges.

CANNON Instrument Company<sup>®</sup> 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](mailto:sales@cannoninstrument.com).



2139 High Tech Road | State College | PA | 16803  
800-676-6232 | 814-353-8000 | Fax 814-353-8007

[sales@cannoninstrument.com](mailto:sales@cannoninstrument.com) | [cannoninstrument.com](http://cannoninstrument.com)