

CANNON® miniAV-HT is a fully automated, single-sample, benchtop viscometer for determining the kinematic viscosity of asphalts at 60 °C and 135 °C. The Ubbelohde-style tube covers a 100-fold viscosity range at values between 0.5 mm²/s (cSt) and 10,000 mm²/s (cSt).

Common Applications

- Asphalt binders
- Asphalt cements
- Asphalt cutbacks

miniAV[®]-HT High Temperature Kinematic Viscometer

For Kinematic Viscosity of Asphalt Binders, Cements, and Cutbacks
AASHTO T201, ASTM D2170, ASTM D445/D446, ISO 3104/3105, IP 71

Meets AASHTO T201, ASTM D2170 and ASTM D445 Precision Requirements

- Developed specifically for asphalt kinematic viscosity testing at 60 °C and 135 °C
- Instrument temperature range: 40 °C to 150 °C
- Viscosity range: 0.5 mm²/s (cSt) to 10,000 mm²/s (cSt)* in 100-fold increments (easily covering the range of five separate manual glass viscometers)
- A trusted CANNON viscometer platform offers reliability and dependable support
- Includes adjustable sample preheater and heated waste lines

Simple, Automated Benchtop Testing

- Automation provides an alternative to labor-intensive manual testing and reduces operator to operator variability
- VISCPRO® PC software enables one PC to manage and control up to four instruments
- User-configurable reports may be viewed, printed, saved, and exported
- Up to 12 determinations/hour

Compact, Convenient Design

- Modular bath for easy maintenance access
- System fits in roughly the same benchtop area as an analytical balance

Reduced Maintenance and Consumable Costs

- Ubbelohde-style tube reduces solvent usage and disposal costs by 50%
- Operators physically replace tubes in minutes, eliminating the need for related service calls
- Single-point temperature calibration allows calibration at a single relevant test temperature and avoids the need for tube recalibration at other temperatures
- Instrument includes 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[®]-HT | High Temperature Kinematic Viscometer

Ordering Information

The CANNON[®] miniAV-HT High Temperature Kinematic Viscometer comes with an external power supply, temperature control unit and waste receiver assembly. One viscometer tube, one set of oil viscosity standards, a case of glass vials, a high precision digital thermometer with probe, and VISCPRO[®] data storage/management software are also included. Specify desired factory installed viscometer tubes when ordering. Computer sold separately.

Description	Part #
100 VAC, 50/60 Hz	9725-B45
115 VAC, 50/60 Hz	9725-B50
230 VAC, 50/60 Hz	9725-B55

Accessories & Consumables

Description	Part #
20 mL vials (glass); case of 40	81.3023
Spare parts kit (1 year supply)	81.3187
20 cSt silicone bath fluid, 1 L	9726-L43.016
S60 viscosity oil standard, 500 mL	9727-C40.016
S200 viscosity oil standard, 500 mL	9727-C45.016
S600 viscosity oil standard, 500 mL	9727-C50.016
S2000 viscosity oil standard, 500 mL	9727-C55.016
S8000 viscosity oil standard, 500 mL	9727-C60.016
S30000 viscosity oil standard, 500 mL	9727-C65.016

Product Specifications

Dimensions (W x D x H)	Unit: 25.4 cm x 30.5 cm x 59.8 cm (10.0 in x 12.0 in x 23.5 in) Power Supply: 33.0 cm x 39.6 cm x 17.2 cm (13.0 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)
Weight	Unit: 12.5 kg (27.5 lb) Power Supply: 11.0 kg (24.0 lb) Waste Receiver: 6.0 kg (13.0 lb)
Shipping dimensions (W x D x H)	74.0 cm x 64.0 cm x 92.0 cm (29.0 in x 25.0 in x 36.0 in)
Shipping weight (with all items)	64.0 kg (140.0 lb)
Max. throughput	12 tests per hour
Automated sample capacity	1
Viscosity range*	0.5 mm ² /s (cSt) to 10,000 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	40 °C to 100 °C ±0.01 °C 100 °C to 150 °C ±0.02 °C <i>Alternate bath medium may be required for temperatures below 60 °C or above 135 °C</i>
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; 1,200 watts 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 via DB-9 connector

*Some upper viscosity measurements may be limited by test temperature and sample type.

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.



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

sales@cannoninstrument.com | cannoninstrument.com