

miniAV-LT[®]

LOW TEMPERATURE Automatic Viscometer

ASTM D445
Sub-Zero Temperatures



CANNON
INSTRUMENT COMPANY[®]

JET FUEL • TURBINE OILS • HYDRAULIC FLUIDS

CANNON[®]

CANNON® miniAV-LT Low Temperature Automatic Viscometer

ASTM D445, D1655, D2532, DEF STAN 91:91, ISO 3104, IP 71, ASTM D446, ISO 3105

Affordable Sub-Zero D445 Automation

The miniAV-LT is designed as an affordable sub-zero alternative to traditional labor-intensive manual Kinematic Viscosity measurement methods of low temperature viscosity. Occupying roughly the same footprint as an analytical balance, the miniAV-LT automates the time-consuming sample loading/temperature equilibration, timing and viscometer tube washing associated with the manual ASTM D445 method.

The miniAV-LT is built on the rugged and well-tested miniAV platform – an instrument which has redefined affordability and performance in bench-level auto viscometer technology.

Operation

Operation of the miniAV-LT is simple. The user fills the sample vial with 6 mL of test sample, places the vial in the holder beneath the viscometer, and raises it into position. Upon entering the sample ID and clicking Run, the operator's involvement ends and the automatic miniAV-LT takes over processing of the sample through temperature equilibration, flow time initiation and determination, viscometer cleaning and drying. After the flow time determination, the KinVis data is automatically calculated by the miniAV-LT's powerful VISCPRO software, ready for QC reporting via hard copy or e-data transfer.

miniAV-LT Features

- Developed Specifically for Low Temperature (Sub-Zero) KinVis Measurement
- Meets ASTM D445 and D2532 Precision Specifications
- Temperature Range of -40°C to +30°C
- Measures KinVis up to 20,000 mm²/s
- Ideal for -20°C Measurement of Jet Fuel According to ASTM D1655 and DEF STAN 91:91
- Meets ASTM D2532 with 3 hour or 72 hour Thermal Soak of Aviation Turbine Lubricants down to -40°C
- Also applicable to -40°C Testing of Hydraulic Fluids, Turbine and Transformer Oils up to 20,000 mm²/s
- Attractive and Compact Tabletop Unit



- Environmentally-friendly Peltier Technology Cooling (requires no external refrigerants); Small Air-Water Heat Exchanger Included
- Unique Viscometer Tube (Patent Pending) which Incorporates Sensitive Thermistor Sensors
- Available with 10-Fold Range Tube
- Design Allows Bath to Quickly Warm to +30°C for Easy Automated Cleaning and Drying with Standard Solvents (eliminating common moisture issues)

For more information or to arrange a demonstration, we invite you to contact Cannon Instrument Company.

miniAV®-LT Automatic Viscometer Specifications

miniAV-LT Dimensions:	254 mm wide x 437 mm deep x 598 mm high (10 x 17.2 x 23.5")
Power Supply Dimensions:	330 mm wide x 396 mm deep x 172 mm high (13 x 15.6 x 6.8")
Air-Water Heat Exchanger:	385.6 mm wide x 511.2 mm deep x 348.8 high (15.2 x 20.1 x 13.7")
Weight:	Bath Unit: 27 kg (45 lbs); Power Supply: 12 kg (26 lbs); Waste Receiver: 6 kg (13 lbs); AWHE: 14 kg (30 lbs)
Shipping Weight:	72 kg (159 lbs) with all units/accessories
Fuse Rating:	115V & 100V Units: M 250V 8A, 1.25 x 0.25"; 230V Unit M 250V 4A, 1.25 x 0.25"
Compliance:	CE Mark pending
Computer Requirements	Computer not included, please contact Cannon for specifications.

miniAV®-LT Order Information

Catalog #	Item Description
9725-A94	miniAV-LT 115V 50/60 hz, Main Unit: 850 watts; AWHE: 175 watts
9725-A95	miniAV-LT 230V 50/60 hz, Main Unit: 850 watts; AWHE: 175 watts
9725-A96	miniAV-LT 100V 50/60 hz, Main Unit: 850 watts; AWHE: 175 watts
P81.2450	Dostmann Thermometer, Calibrated, Digital Single Channel Kit
P81.2451	Dostmann Thermometer, Calibrated, Digital Dual Channel Kit



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