

Petroleum and Viscosity Testing

Cannon Cav - 2200 dual Bath Automatic Viscometer

- *Measures two samples at two different temperatures simultaneously
- *Fully automated and unattended operation
- *Now acetone-compatible!
- *New low-volume (4ml) testing option
- *New tankless solvent dispensing system!

The new CAV-2200 from CANNON Instrument company builds on the strengths of the modular benchtop CAV-2000 to provide fully automatic testing for kinematic viscosity at two different temperatures simultaneously. Viscosity Index of the sample is automatically calculated.

Accuracy

Designed for unattended operation, the CAV-2200 provides fully automatic kinematic viscosity testing within parameters specified by ASTM D 445. The CAV-2200 measures flow rates within +/- 0.01 second by electronically timing the liquid meniscus as it moves between thermistor sensors. Bath temperature is controlled to an accuracy better than +/- 0.01°C between 20° and 100°, as required by ASTM D 445/446. Dark or opaque liquids may be measured with the same precision as transparent fluids.

Features

The CAV-2200 bath unit housing is identical in size to the original CAV-2000, but the instrument incorporates twin baths, each with its own viscometer and sample handling array. Like the CAV-2000, the CAV-2200 offers variable temperature selection between 20° and 100°. The new instrument is ideal for the smaller laboratories that must determine oil viscosities at 40°C and 100°C without the high throughput required of larger facilities. Each CAV-2200 bath has a single viscometer tube with a 100-fold range (10-fold range for "fast-run" tubes). The CAV-220 is compatible with a wide variety of samples and solvents, including acetone. The enhancement has further broadened the range of potential applications.



CAV-2200's Twin Bath and Optional Heated Sample Trays

Options for the CAV-2200 instrument include a high-capacity sample track that accommodates 50 samples per tube (9100 samples per instrument). A special low-volume tube and modified sample vials/holders provide a new low-volume testing option (only 4ml of sample required) over a 10-fold range. For additional Accessories/Options, consult the table on the following page. A new Solvent Dispensing Unit is designed to draw a solvent from the customer's non-pressurised solvent container.

Tests are conducted in accordance with the precision specified by the ASTM D 445/446 method. Sample identification and data assimilation are accomplished by the VISCPRO software for Windows 98/NT/XP. VISCPRO also includes powerful reporting options, including real time data transfer to the user's laboratory information management system (LIMS).

Product no 13650/59

CAV-2200 Specifications

Bath and unit dimensions: 305mm wide x 727mm deep x 1245mm high (12 x 35 x 49")

Service and Solvent Dispensing Units: 178mm wide x 508mm deep x 356mm high (7 x 20 x 14") for each unit

Viscosity range: 0.5 to 5000 cSt depending on viscometer tubes (custom configuration to 10,000 cSt possible)

Bath Temperature: Variable from 20°C¹ to 100°C with an accuracy better than +/- 0.01°C

Drop Time Resolution: 0.01 seconds (timing accuracy to +/-0.001 second)

Operating conditions: 10%-90% RH non-condensing. Installation category II; Pollution degree 2

Compliance: CE Mark: EMC directive (89/336/EEC); Low voltage directive (73/23/EEC); HI-POT (1900 VDC, 60 sec.)

Preferred Bench Height: 28 to 30 inches

Computer Requirements: Computer not included.

¹ Testing near ambient requires optional chiller

Available Options/Accessories

Pedestal Base
Low-Volume Testing Option
Heated Sample Tray Option

Heated sample Drains
Dual Solvent Option
Thermometers for heated Trays
High Capacity Sample Track

Fast Run Tubes
Computer Stand
High-Heat Sample Tray Option