automated pour point analyzer
The K77000 Automated Pour Point Analyzer is a state of the art piece of equipment for measuring pour point with the Automatic Tilt Method. The pour point of a petroleum product is an index of the lowest temperature of its utility for certain applications. Flow characteristics, such as pour point, can be critical for the correct operation of lubricating oil systems, fuel systems, and petroleum blending and pipeline operations.

**Test Method**

**ASTM D5950** This test covers the determination of pour point of petroleum products by an automatic instrument that tilts the test jar during cooling and detects movement of the surface of the test specimen with an optical device. This test method is designed to cover the range of temperatures from −66°C to +51°C.

After preliminary heating, the test specimen is inserted into the automatic pour point apparatus. After starting the program, the specimen is cooled according to the cooling profile listed in the ASTM Method and examined at either 1°C or 3°C intervals. The lowest temperature at which movement of specimen is detected, by the automatic equipment, is displayed as the pour point.
key features

Fully Automatic
- Automatic determination of pour point via the Automatic Tilt Method
- Conformance to ASTM D5950

High Performance
- Wireless Pour Point Head
- Integrated Cooling System
- Automatic Calibration by means of 10 point RTD Calibration, Sample Calibration, and Jacket Calibration

Industrial Touch Screen User Interface
- 10.4-inch Color Touch Screen is built-in

USB & Network Connections
- 4 USB interfaces
- Internet (Ethernet) Line

software capabilities
- Standard test method are preprogrammed or user-defined test programs can be created.
- Clear graph of temperature vs. time for sample and bath temperatures.
- Automated Calibration Features
  - Three Point Electronics Calibration
  - 10 Point RTD Offset Calibration
  - Jacket Calibration
- Results can be easily searched, viewed on screen, printed and sent via LIMS
dimensions  W x D x H, in. (cm)
31.75 x 66.68 x 39.37 cm (12.5 x 26.25 x 15.5 in)
Weight: 41 kg (90 lb)

specifications
Detection: Tilting Method
Cooling: Internal cooling system
Temperature Range: -105°C to +50°C (-157°F to 122°F)
Tilt Interval: 1°C or 3°C as per test method
User defined for custom method (1 to 5°C)
Temperature Accuracy: ± 0.1°C
Interfaces: USB (4), Ethernet
Display: 10.4 in. Color Touch Screen
Password Protection: Multi-level password capability
Power Supply: 110-240 VAC, 50/60 Hz, Single Phase

ordering information

<table>
<thead>
<tr>
<th>catalog no.</th>
<th>description</th>
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<tbody>
<tr>
<td>K77000</td>
<td>Automated Pour Point Analyzer, 110 – 240V, 50/60Hz</td>
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