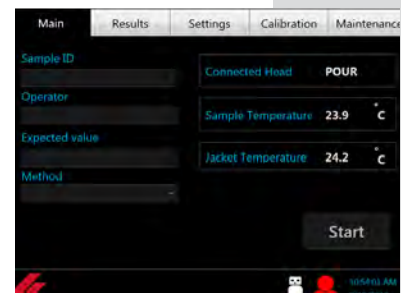


# automated pour point analyzer



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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.



Calibration Summary	
<b>Sample Calibration</b>	
Three point Electronics Calibration: Date of Cal: 6-20-2018	
Unconnected Temperature (°C)	0.2 -123.3 63.5
Connected Temperature (°C)	0.0 -125.4 64.3
Multipoint RTD Offset Calibration: Date of Cal: 6-4-2018	
Offset points: 40°C, 20°C, 0°C, -20°C, -40°C, -60°C, -80°C, 100°C	
0.0, 0.0, 0.0, 0.0, 0.0, 0.0, 0.0, 0.0	
<b>Jacket Calibration</b> Date of Cal: 6-20-2018	
Ref Cal Temp 1 (°C)	0.4 jacket Cal Temp 1 (°C) -0.0
Ref Cal Temp 2 (°C)	-17.2 jacket Cal Temp 2 (°C) -17.9

## 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  $-66^{\circ}\text{C}$  to  $+51^{\circ}\text{C}$ .

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  $1^{\circ}\text{C}$  or  $3^{\circ}\text{C}$  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:  $\pm 0.1^\circ\text{C}$

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

**catalog no.**    **description**

<b>K77000</b>	Automated Pour Point Analyzer, 110 – 240V, 50/60Hz
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