



FULLY AUTOMATIC POUR AND CLOUD POINT TESTER

Fully Automatic Pour and Cloud Point Tester TT-9725

Fully Automatic Pour and Cloud Point Tester is designed for precise cloud point (CP) and pour point (PP) testing of petroleum products following standards such as ASTM D97, ASTM D2500, ASTM D5950, EN 23015, ISO 3015, ISO 3016, and IP 15. This advanced tester delivers accurate results in a single test cycle, surpassing manual methods in precision.

Its innovative built-in cooling system efficiently cools samples down to -80°C in a short time, eliminating the need for an external chiller.

APPLICATIONS

The primary application of the Fully Automatic Pour and Cloud Point Tester is to precisely and automatically determine the low-temperature characteristics of petroleum products. It measures the Cloud Point (the temperature at which wax crystals begin to form) and the Pour Point (the lowest temperature at which the oil will still flow). These are critical quality control tests to ensure fuels and lubricants perform reliably in cold weather environments.



Key Industries

- **Petroleum Refining and Petrochemical:** Refineries use this tester for essential quality control to ensure that fuels like diesel, heating oil, and jet fuel meet specifications for different climates and seasons, preventing issues like fuel line clogging.
- **Automotive and Aerospace:** This is critical for testing diesel and aviation fuels where low-temperature performance is a matter of safety and operational reliability. Gelled fuel can cause engine failure in vehicles, aircraft, and heavy machinery.
- **Third-Party Testing Laboratories:** These independent labs provide verification and certification services for producers, distributors, and consumers, making this tester a workhorse instrument for routine analysis.

FEATURES

- **Fully Automated Testing:** Streamlines the entire testing process for accuracy and convenience.
- **Integrated Cooling System:** Efficiently cools the bath down to -80°C without requiring an external liquid chiller.
- **Automated Test Tube Handling:** Includes automatic lifting and rotation for seamless operation.
- **Dual Measurement Capability:** Simultaneously determines cloud point (CP) and pour point (PP) in a single test cycle.
- **High Precision:** Achieves results with a 0.1°C resolution for superior accuracy.
- **Optical Measuring System:** Ensures precise data collection.
- **Pt-100 Temperature Probe:** Delivers accurate temperature readings.
- **Built-in Heater:** Quickly heats the bath for faster test preparation.
- **User-Friendly Interface:** Features a large color LCD touch screen for easy operation.
- **Extensive Data Storage:** Internal memory (8GB) to store test results securely.
- **Automatic Diagnostics:** Identifies system issues to maintain optimal performance.
- **USB Connectivity:** Supports external storage devices and printers.
- **LAN Port:** Enables network connection with LIMS support.
- **Network Printer Compatibility:** Connects to network printers for streamlined report printing.
- **Remote Firmware Updates:** Keeps the system up to date without manual intervention.

- **Compact & Energy Efficient:** Space-saving design with optimized energy consumption.

TECHNICAL SPECIFICATIONS

1. Temperature range: -80~51°C, $\pm 0.1^{\circ}\text{C}$
2. Sample volume: 45ml
3. Cooling mode: Integrated cooling system without external chiller
4. Interface: USB, LAN
5. Power consumption: 500W
6. Rated voltage: 220V $\pm 10\%$, 50Hz (110V is also available)
7. Dimension: 500*440*770mm
8. Weight: 35kg



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