



AUTOMATED HOUILLON VISCOMETER

Automated Houillon Viscometer TT-7279C

Automated Houillon Viscometer TT-7279C complies with ASTM D7279 Standard Test Method for Kinematic Viscosity of Transparent and Opaque Liquids by Automated Houillon Viscometer.

Various petroleum products and some non-petroleum products serve as lubricants in equipment, and the proper functioning of the equipment relies on the correct viscosity of the lubricant being utilized. Furthermore, the viscosity of numerous petroleum fuels plays a crucial role in determining the optimal storage, handling, and operational conditions. Therefore, precise viscosity determination is imperative for many product specifications.

APPLICATIONS

The primary application of the Automated Houillon Viscometer TT-7279C is the **rapid and precise determination of the kinematic viscosity** of various petroleum products (like fuels and lubricants) and some non-petroleum products, in compliance with the **ASTM D7279** standard. This test is essential for quality control and for certifying that a product meets the required viscosity specifications for proper equipment operation, storage, and handling. The instrument is notable for its high speed (results in 3-5 minutes), small sample requirement (less than 1ml), and full automation of the measurement and cleaning process.

Key Industries

- **Third-Party Testing Laboratories (In-Service Oil Analysis):** The combination of high speed, small sample volume, and automation makes this instrument ideal for commercial labs that process a large number of in-service oil samples daily for predictive maintenance programs.
- **Lubricant Manufacturing:** Viscosity is the most critical property of a lubricant. Manufacturers use this fast and efficient tester for quality control of their base oils and finished products to ensure they meet precise viscosity

specifications.

- **Petroleum Refining:** Refineries require quick and accurate viscosity measurements for process control and quality certification of their products, including fuels and lubricant base stocks. The speed of this instrument allows for rapid feedback and adjustments in the production process.

FEATURES

- Single-chip microcomputer control and color touch screen operation ensure stability and reliability.
- The test speed is rapid, with some results obtainable within 30 seconds, typically yielding results in approximately 3 to 5 minutes.
- Measurement, cleaning, drying, and result calculation are automated processes.
- Cleaning is fast and cost-effective, requiring only about 10ml of cleaning solvent per cycle.
- Both software and hardware feature double over-temperature protection, including over-temperature alarm and anti-dry burning protection function.
- The required sample volume is less than 1ml.
- It is capable of calculating the viscosity index and includes a multi-point temperature correction function.

TECHNICAL SPECIFICATIONS

1. Viscosity measuring range: 0.5 to 3000 (select the corresponding viscometer based on the required range).
2. Temperature control range: 20 to 100°C (External cooling source required for 20°C).
3. Temperature accuracy: $\pm 0.02^{\circ}\text{C}$.
4. Test station: Two.
5. Timing accuracy: 0.01s.

6. Test accuracy: $\leq 0.68\%$.
7. Heating mode: Spiral heater.
8. Display: Color touch screen.
9. Control mode: Automatic measurement, cleaning, and drying.
10. Data storage: 1000 pieces.
11. Rated voltage: AC220V $\pm 10\%$, 50Hz. (110V also available)
12. Total power: 1500W.
13. Dimensions: 160*400*350mm.
14. Weight: 15kg.



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