

INNOVATIVE TECHNOLOGIES



Manual Kinematic Viscosity Bath

TT-445



TORONTECH



Manual Kinematic Viscosity Bath TT-445

The Manual Kinematic Viscosity Bath TT-445 is designed to measure the kinematic viscosity of transparent and opaque liquid petroleum products. It conforms to ASTM D445, the standard test method for kinematic viscosity and dynamic viscosity calculations.

This viscosity bath operates by measuring the time it takes for a liquid sample to flow under gravity through a calibrated glass capillary viscometer. The dynamic viscosity (η) is determined by multiplying the kinematic viscosity (ν) by the liquid's density (ρ) at a constant temperature.

The TT-445 supports a wide viscosity range from 0.2 to 300,000 mm²/s across various temperatures, making it suitable for laboratories conducting petroleum product analysis and quality control testing.

FEATURES/ADVANTAGES

- ▶ **Multi-Holder Design:** Equipped with four advanced viscometer holders, allowing users to test multiple samples simultaneously. This feature enhances efficiency and ease of operation in laboratory settings.
- ▶ **Precise Temperature Control:** Features a digital display temperature control system that ensures accurate and stable temperature regulation, providing reliable results for kinematic viscosity measurements.
- ▶ **Efficient Heat Preservation:** Includes a built-in heat preservation bath that maintains consistent temperature conditions, preventing fluctuations that could affect viscosity readings.
- ▶ **Rotational Constant Bath Requirement:** For precise measurements at a temperature of 20°C, a rotational constant bath is required to maintain stable thermal conditions, ensuring test accuracy.
- ▶ **User-Friendly and Durable Design:** Designed with a rational structure that combines durability with ease of use. The intuitive operation makes it suitable for both routine and specialized viscosity testing applications.


TECHNICAL SPECIFICATIONS

SPECIFICATIONS	DETAILS
Rated Voltage	AC 220V±10% 50Hz (110 also available upon request)
Temperature Control Range	20°C ~ 100°C
Temperature Control Mode	Digital display temperature control
Precision of Temperature Control	±0.1°C (±0.01°C)
Output Power	1800W
Ambient Requirements	Temperature: 10°C ~ 40°C Humidity: ≤ 85%



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