

INNOVATIVE TECHNOLOGIES



Automatic Abel Closed Cup Flash Point Tester

TT-170Z



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The TT-170Z Automatic Abel Closed Cup Flash Point Tester is **designed to deliver precise and reliable flash point measurements for petroleum products and other liquids**. Built in full compliance with **IP170** and **ISO 13736** standards, it provides accurate determination of flash points within the range of -30°C to 70°C . The method ensures dependable precision for results between -5°C and 66.5°C , making it ideal for quality control and safety testing across a wide variety of applications. For water-based paints and similar materials, **ISO 3679** is recommended as the applicable testing method.



FEATURES/ADVANTAGES

▶ **Advanced Control System**

Bilingual menus, touch screen, and intuitive interface deliver fast testing, wide range, and repeatable results. Automated display shows temperature, time, and status, while up to 1,000 records and user settings are stored.

▶ **Automated Testing Process**

Once the flash point or starting temperature is set, the system cools, heats, ignites, detects, cools again, and prints results. Automatic correction for pressure ensures consistent accuracy in all conditions.

▶ **Dual Ignition Modes**

The instrument supports both electronic and gas ignition, giving operators full flexibility. Each mode provides the same reliable performance and accuracy, ensuring safe and dependable testing every time.

▶ **Independent Modular Design**

Cup lid, flash point sensor, and temperature sensor are built as separate modules. This structure makes replacing parts simple and fast, reducing downtime while making routine maintenance more efficient.

▶ **Automatic Self-Check**

At startup, the system checks the flash point sensor, Pt100 sensor, igniter, and thermofuse. Ignition, stirring, cooling, and heating are also tested, with alarms and prompts for immediate fault detection.

▶ **Safe and Efficient Operation**

Self-diagnosis and real-time monitoring minimize operator error while improving safety. Clear alarms and text prompts allow quick corrections, ensuring accurate results and smooth, continuous operation.


TECHNICAL SPECIFICATIONS

SPECIFICATIONS	DETAILS
Test Temperature Range	-30 to 80 °C
Temperature Detection	Platinum resistor (Pt100)
Display	7-inch LCD screen
Cooling System	Compressor with external circulating water bath
Heating Rate / Resolution	1 °C per minute; 0.1 °C resolution
Stirring Speed	0.5 r/s (30 rpm)
Ignition Method	Electric or gas ignition
Operating Environment	10 to 40 °C; relative humidity ≤85%
Power Consumption	≤450 W
Low-Temperature Circulating Bath	≤1000 W




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