

INNOVATIVE TECHNOLOGIES

# Pensky Martens Closed Cup Flash Point Tester (Automatic Model)

**ToronCCFPT-Auto**



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## Pensky Martens Closed Cup Flash Point Tester—Automatic Model

### ToronCCFPT Auto

The Pensky Martens Closed Cup Flash Point Tester Automatic Model is engineered in accordance with ASTM D93 standards, ensuring reliable and standardized testing performance. This advanced instrument offers a high level of automation to streamline testing procedures and improve accuracy.

Key features include automatic lid opening and closing, motorized lifting, precise temperature control, automatic ignition, measurement, and results printing. It is also equipped with intelligent flame detection and extinguishing functions, along with flame stabilization technology to maintain consistent testing conditions.

Additionally, the system supports rapid forced cooling to enhance efficiency and prepare for subsequent tests quickly.



## FEATURES/ADVANTAGES

### ► Real-Time Monitoring and Auto Calibration

Tracks temperature curves and test timing in real time. Includes smart prompts for user errors and an atmospheric pressure sensor that auto-adjusts for environmental conditions.

### ► Dual Ignition with Intelligent Control

Supports both electric and gas ignition. The silicon nitride head lights samples automatically and features flame detection with auto re-ignition, enhancing safety and durability.

### ► Intuitive Touchscreen and Custom Settings

Equipped with an 8-inch high-definition LCD touchscreen and English interface, allowing easy presetting of sample name, temperature, ignition delay, heating rate, stirring speed, and pre-ignition temperature.

### ► Fully Automated Test Process

A rotating lifting arm automates lifting, ignition, detection, and printing. Includes a fast test mode for quick analysis of unfamiliar samples, minimizing manual operation.

### ► Quick Cooling and Smart Sample Handling

An intelligent bracket starts/stops cooling based on sample temperature. The forced cooling system enables new tests within 10 minutes, improving lab efficiency.

### ► Built-In Safety and Easy Connectivity

Dual extinguishing heads detect and suppress flames in under two seconds. USB connection allows seamless integration with LIMS systems for streamlined data management.

## TECHNICAL SPECIFICATIONS

SPECIFICATIONS	DETAILS
Measurement Range	Room temperature to 400 °C
Repeatability	≤ 2 °C
Reproducibility	≤ 4 °C
Resolution	0.1 °C
Heating Rate	<ul style="list-style-type: none"> <li>• Step A : 5–6 °C/min</li> <li>• Step B : 1–1.5 °C/min</li> <li>• Step C : 2.5–3.5 °C/min</li> <li>• Quick Mode : 10–15 °C/min</li> <li>• Custom Mode : Adjustable heating rate</li> </ul>
Sample Cup Cooling	Intelligent air cooling
Fire Extinguishing Method	Inert gas spraying for fire extinguishing
Furnace Cooling	Forced air cooling
Ignition Method	Electric ignition, gas ignition can be freely switched
Flame Holding	Intelligent detection, automatic ignition
Power Consumption (Total)	≤ 300 W
Host Size	450 × 375 × 360 mm

## STANDARD CONFIGURATION LIST

ITEMS	SPECIFICATIONS	QTY	UNIT
Pensky Martens Closed Cup Flash Point Tester	ToronCCFPT-Auto	1	unit
Oil Cup		2	piece
Power Cord	10A	1	piece
Ignition Gun		1	piece
Clamp	Φ 12mm	2	piece
PU tube	6mm	5	meter
PU tube	8mm	0.3	meter
Variable Diameter Joint	8mm to 6mm	1	piece
Insurance Management	8A	2	unit


### WORKING ENVIRONMENT

Voltage	AC220V ± 10% 50Hz ± 10%
Environmental Temperature	10–40 °C
Relative Humidity	< 80%RH
Other	The laboratory environment should be free from strong vibrations, drafts, electromagnetic interference, and corrosive gases.




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