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## Flash Point Testers

**Pensky Martens Closed Cup**  
*Model: Flash-93m*



**Abel Closed Cup**  
*Model: Flash-170m*



**Cleveland Open Cup**  
*Model: Flash-92m*



Methods	ASTM D93-A,B&C; ISO2719,IP34,IS-1448(P-21)	IP 170, ISO 13736 & IS1448 (P:20)	ASTMD92,ISO2592,IS1448(P: 69)& IP36
Cooling	Axial Fan @230VAC	In-out ports for external water/coolant circulator	Axial Fan @230VAC
Heating	Band Heater 350 watts @ 230 VAC	Band Heater 300 watts @ 230 VAC	Coil Heater 1000watts @ 230 Volts
Heat Rate	Heat rate control with precise ten turn potentiometer	Heat rate control with precise ten turn potentiometer	Heat rate control with precise ten turn potentiometer
Stirring	Speed Control by Precise Potentiometer from 0 to 300 rpm	Speed Control by Precise Potentiometer from 0 to 60 rpm	NA
Ignition	Gas Igniter - Precise control for pilot flame & gas igniter	Gas Igniter - Precise control for pilot flame & gas igniter	Gas Igniter - Precise control for pilot flame & gas igniter
Test	Manual dipping , heater and stirrer can be switched off by using toggle switch.	Manual dipping, heater and stirrer can be switched off by using toggle switch.	Manual dipping, heater can be switched off by using toggle switch.
Lid Assembly	Permanently fixed sample cup cover with Stirrer, sample temperature sensor and Igniter for easy operation	Permanently fixed sample cup cover with Stirrer, sample temperature sensor and Igniter for easy operation	Permanently fixed sample temperature sensor and Igniter for easy operation
Sample Temperature	Glass PT 100 , Class A, with digital indication / Thermometer interchangeable	Glass PT 100 , Class A, with digital indication / Thermometer interchangeable	Glass PT 100 , Class A, with digital indication / Thermometer interchangeable
Stirrer RPM	Chart of Potentiometer position v/s RPM	Chart of Potentiometer position v/s RPM	NA
Dimensions	W: 220 mm X D: 300 mm X H: 325 mm	W: 220 mm X D: 300 mm X H: 325 mm	W: 220 mm X D: 300 mm X H: 400 mm
Power Supply	230Volts 50 Hz 600Watts	230Volts 50 Hz 600Watts	230Volts 50 Hz 1200Watts