

## MODULAR FLASH POINT TESTER

## 34100-2 MULTIFLASH - PENSKY-MARTENS CLOSED CUP MODULE

ASTM D93; E502; IP 34; IP 404; BS 2000 Parts 34 & 404;  
ISO 15267; EN ISO 2719; JIS K2265; NF M07-019; DIN 51 758;  
FTM 791 1102; EPA 1010A; GB/T 261

- PMA & PMB modes
- GB/T mode
- Flexible automated search mode
- Ambient to 400°C temperature range
- Gas or electric ignition
- Independent fire detector

The Pensky-Martens Closed Cup Module comprises a Test Area, DIPS pod (Dipping, Ignition, Pilot, Stirrer), flash detector, sample temperature probe, and all necessary cables to interconnect with the 34000-0 Universal Base Unit.

The Test Area consists of an electrically heated solid block / air bath with a removeable sample cup and lid. The lid is equipped with a stirrer, rotating shutter, and ports for the flash detector and sample temperature probe.

The DIPS pod contains a fire detection probe, stirrer drive, shutter actuator and ignitor dipping mechanism with a coaxial gas jet / electric hot wire ignitor.

The sample temperature probe is a class A PRT, and flash detection is by a thermocouple.

Safety features include an initial dip to check that the sample is below its flash point and a PRT check to ensure that the correct probe is connected and is immersed in sample. When in search mode, the software limits the maximum temperature to 50°C above "expected flash". A bath temperature probe protects against over-temperature, and an independent fire detection probe is mounted over the test area.

The optional 34008-0 Cooling Boost Module allows the test area to be rapidly cooled in between tests by a blast of compressed air.

**SUPPLIED WITH:** DIPS pod, Test Area, Ignitor, Flash Detector, Sample PRT, interconnection leads, and instruction manual.

*Note: 34000-0 Universal Base Unit required for operation.*



34100-2 mounted on a 34000-0 Base Unit with a 34010-0 Draught Screen fitted



BIO-FUEL TESTING



CALIBRATION & VERIFICATION MATERIALS



SETALERT COMPATIBLE



TECHNICAL DATASHEETS AVAILABLE

## SPECIFICATIONS

<b>Method:</b>	Pensky-Martens Closed Cup
<b>Tests:</b>	P-M Procedures A and B GB/T 261 Search mode for unknown samples
<b>Temperature Range:</b>	Ambient to 400°C
<b>Barometric Correction:</b>	Automatic
<b>Bath:</b>	Solid Block / Air
<b>Heating:</b>	Bottom and side heaters
<b>Post Test Cooling:</b>	Fan assisted or Forced Air (Requires 34008-0 Cooling Boost Module option)
<b>Post Test Cool-down Time (90°C to 50°C):</b>	36 minutes (Fan) 6 minutes (Forced Air)
<b>Ignitor:</b>	Quick-fit coaxial gas jet / electric hot wire, user selectable (Electric hot wire pilot light for gas jet)
<b>Temperature Probes:</b>	Class A Platinum Resistance Thermometer, °C or °F
<b>Flash Detection:</b>	Thermocouple
<b>Stirrer Speed:</b>	105 & 250 rpm
<b>Gas Supply (gas jet ignitor):</b>	Laboratory gas, 3kPa (0.44psi) maximum pressure
<b>Air Supply (forced air cooling):</b>	Dry compressed air, 670kPa (100psi) maximum pressure
<b>Voltage:</b>	110/120V or 220/240V, 50/60Hz, (switchable)
<b>Power:</b>	1kW
<b>Size (HxWxD):</b>	40 x 45 x 34cm
<b>Weight:</b>	20kg

## ACCESSORIES - Pensky-Martens Closed Cup Module

## OPTIONAL

00100-0	SETALERT REMOTE PAGING SYSTEM
23680-0	SPIRIT LEVEL
34003-0	RS232 CABLE, for connecting instrument to PC.
34008-0	COOLING BOOST MODULE
34010-0	DRAUGHT SCREEN (recommended for gas tests).
81002-2	PRINTER

## CALIBRATION VERIFICATION &amp; TRAINING

60005-002	DRY WELL PROBE CALIBRATOR, (for details see page 156).
99851-0	MULTI-TEST VERIFICATION MATERIAL, D93 - IP 34 Gas Oil, (for details see page 162).
99853-0	MULTI-TEST VERIFICATION MATERIAL, D93 - IP 34 Lubricating Oil, (for details see page 163).
99908-0	BIO MULTI-TEST VERIFICATION MATERIAL, Gas Oil, (for details see page 163).
99880-0	FLASHCHECK, secondary verification material, (for details see page 168).
99910-0	PORTABLE DIGITAL BAROMETER, 750 to 1500 mbar absolute, (for details see page 157).
99960-0	DIGITAL PHOTO TACHOMETER, (for details see page 159).

## CONSUMABLES - Pensky-Martens Closed Cup Module

2 Years / 2000 Tests		Qty
34100-001	FLASH DETECTOR	.2
34100-002	SAMPLE PRT PROBE	.1
34100-004	CO-AXIAL IGNITOR	.2
81002-001	PRINTER PAPER, pack of 20 rolls	.1