# **NPM 450**

# **PENSKY-MARTENS**

# **AUTOMATED FLASH POINT TESTER**



#### **STANDARDS**

ASTM D 93, IP 34, ISO 2719, NF M07019, DIN 51758, GBT 261 and related methods.

# **SCOPE**

These test methods cover the determination of the flash point of petroleum products in the temperature range from 40  $^{\circ}$ C to 370  $^{\circ}$ C, and the determination of the flash point of biodiesel in the temperature range of 60  $^{\circ}$ C to 190  $^{\circ}$ C.



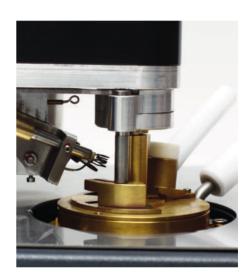




# « EFFICIENT AND COMPACT UNIT »

# **TECHNICAL FEATURES**

- Small size
- 6.4" capacitive touch screen
- One hand easy operation
- Sample cup, probe, thermocouple holder stand
- Test temperature range: 0 to 410°C
- Unique combine ignition system (electric and gas)
- Standard methods: A, B, C
- Integrated barometric correction
- User programmable methods
- Automatic gas flame relighting
- Flash point detection by thermocouple
- Heavy sample preheating and automatic strirring start
- Fast heating and cooling
- Rapid cooling of heating block by air turbine



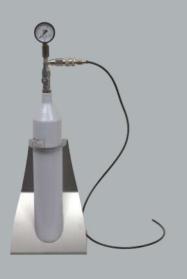
# **CONNECTIVITY**

- 4 USB ports
- 1 RS232C port or LIMS
- 2 LAN ports
- 1 VGA port









#### SAFETY

- Illuminated extinguisher push button
- Gas flame detection
- Over-temperature protection
- Built in gas leak detector

#### **SOFTWARE**

- One hand easy operation
- Windows 8 operating system
- Lifetime data storage 32 GB SSD
- Reporting: PDF, Email, LIMS, Excel, Word...
- Different access level settable (Operator supervisor or maintenance...)

# DISPLAY

Access from basic to advanced parameters made easy through the intuitive software and large screen.

- Data export through USB, LIMS, PDF or e-mails.
- User and password settings
- Data transfer to printer
- Product files configuration

#### **ACCESSORIES**

An Automatic N2 fire extinguisher is available in option:

- Allows a fire to be switched off by smothering.
- Acts on fire by reducing the oxygen content
- Very fast diffusion during emission
- Density comparable to that of air (composed of 78% nitrogen)
- Allows a durable maintenance of the extinction concentration

#### SCOPE OF DELIVERY

#### 60400

#### The **NPM 450** delivered with:

Cup (P/N: 40346) and Lid (P/N: 60447)

Pt 100 probe (P/N: 60453)

Detection thermocouple cable (P/N: 60448)

Electric ignitor (P/N: 60480)

#### Site requirements:

Power supply: Ac 110/240 V, 50/60 Hz - 4 A

Dimension: (W) 260 x (D) 460 x (H) 185 mm

Weight: 12 kg

Propane/Butane pressure: mini 20 to 40 mBar max

Nitrogen: mini 4 Bar, maxi 12 Bar

#### **SUMMARY**

Flash point range	0 to 410
Heating rate	0 to 15°
Safety stop	0 to 30°
	flach no

Ignition	
<b>Electric ignition</b>	
Stirring speed	
Flash detection	
Cooling	

Flash	aetec
Cooli	ng

U	ıo	710 0
0	to	15°C/min
0	to	30°C (above expected

flash point) Electric and gas Regulated / monitored 50 to 300 RPM (± 3 RPM)

Thermocouple Integrated - Forced air **Gas connections Automatic switch off Hydrocarbon detection** Overheating protection Real time clock Fire detection Extinguisher push button **Automatic fire extinguisher**  Propane / Butane, Nitrogen Integrated

Integrated Integrated Integrated Ionization

Integrated & illuminated Integrated (nitrogen network or

optional bottle)



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