Labotronics

Operation Manual

Pensky-Martens Closed Cup Flash Point Tester

LB-10PFP

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1. Introduction

Pensky-Martens Closed Cup Flash Point Tester LB-10PFP operates at temperatures up to 350℃, offering versatile testing for various samples. It maintains a precise stirring speed of 125 r/min above 110℃ for accurate and repeatable flash point detection. It includes a user-friendly pre-test mode for safe, efficient analysis of samples with unknown flash points. Our tester has an intuitive LCD touch screen with a conversational interface for simplified, error-free operation.

2. Features

- High-speed DSP technology
- ASTM D93 Compliance
- Auto atmospheric pressure compensation
- Fast thermal micro printer
- Smart over-temperature protection
- Massive data storage
- Advanced lifting arm

3. Specifications

Model No	**LB-10PFP**
Temperature Range	Room Temperature to 350℃
Stirring Speed	Grade A:125 r/min, Detection Temp Greater than 110℃
Temperature Control Accuracy	±0.1℃
Environmental Change Range	50℃ to 450℃
Ignition Mode	Electric Ignition
Passing Arm	Stage B: 250 r/min, Temp Less than 110℃
Printing Mode	Thermal Printing
Sweep Mode	Automatic Sweep
Environmental Stardom	80% or Less
Heating Mode	Electric Furnace Heating
Installation Mode	Desktop
Control Mode	Microcomputer Temperature Control
Display Mode	Liquid Crystal Data Display
Temperature Detection	Industrial Resistance
Heat Dissipation Mode	Forced Air Cooling
Power Supply	AC220V ±10%, 50Hz ±2.5Hz
Power Consumption	Less than 650W
Dimension	480 × 360 × 420 mm
Packing Dimension	500 × 400 × 450 mm
Net Weight	30 kg
Gross Weight	35 kg

4. Applications

Pensky-Martens Closed Cup Flash Point Tester LB-10PFP is widely used in the petroleum and petrochemical industry, chemical manufacturing plants, paints and coatings industry, pharmaceutical and food industries, and environmental and safety labs.

5. Operations

- After starting the machine, kindly select the corresponding steps according to the type of sample to be tested.
- The machine automatically enters the selected test interface.
- Click the estimated flash point white dialog box to set the flash point.
- Click the dialog box after atmospheric pressure to set the current atmospheric pressure.
- Add the sample to the position of the closed cup scale line.
- Place the closed cup with the sample in the machine.
- Click **START,** and the machine will start automatic detection

Function Introduction

1) **Step A:** Sample type can be detected: Paint, Varnish, Distillate fuel, Unused lubricating oil.
2) **Step B:** Sample type can be detected: Residual fuel oil, Diluted bitumen, Used lubricating oil.
3) **Step C:** Sample type can be detected: BD100 biodiesel.
4) **Button UP:** Click this button to test the arm to start rising and click again to stop rising.
5) **Button DOWN:** Click this button to test the arm to start falling, and click again to stop falling.
6) **Button SETTING:** Click this button to enter the instrument parameter setting interface.
7) **Button TSET RECORD:** Click this button to enter the historical test data query interface.
8) **Button SELE-TEST:** Click this button to enter the machine function self-test interface.
9) **Button START:** Click this button to start the flash point test.
10) **Button PRINT**: Click this button to print the test results.
11) There is a hidden back button in the upper right corner of the self-test screen.

6. Accessories

Standard Accessories

Accessories	Quantity
Closed Cup	1
Platinum Ignition Wire	1
Printer Paper	1
Fuse	2
Power Cord	1