GRABNER / AMETEK

Agence Nord:
ZA Object'Ifs Sud - Lot A3
6 Allée Emilie du Châtelet
14123 Ifs
tél : 02.31.34.50.74
fax : 02.31.34.55.17

Agence Est:
Parc Club des Tanneries
2 Rue de la Faisanderie
67380 Lingolsheim
tél : 03.88.04.01.81
fax : 03.68.93.01.52

DELTA LABO

Agence Sud:
Bât Le Venango. 392 Rue Jean Dausset
AGROPARC - BP11575
84916 Avignon Cédex 9
tél : 04.90.27.17.95 fax : 04.90.27.17.52

www.deltalabo.fr
info@deltalabo.fr

BROCHURE

Grabner FPV Pro

Maximum Safety.
Minimum Sample. Superior Results.



GRABNER / AMETEK

www.grabner-instruments.com



Grabner FPV Pro

Maximum Safety. Minimum Sample. Superior Results.

The Grabner FPV Pro is a state-of-the-art flash point analyzer engineered for precise, safe, and efficient determination of flash points in liquids and solids. Utilizing Grabner's proven flash point detection technology, the system applies an energy-controlled electric arc and measures instantaneous pressure rise within a sealed test chamber.

BENEFITS

Advanced Flash Point Methods

Measurements in accordance with the safest flash point methods ASTM D6450 and D7094. Results are rated equivalent to ASTM D93/ ISO 2719 Pensky Martens method and are in excellent correlation with ASTM D56, ISO 13736, and IP 170. Also available are methods for simulation of ISO 3679 and ISO 3680 testing, fuel dilution measurement for used oil analysis, and fast screening programs.

Combustion Analysis

Samples with small concentrations of flammable compounds sometimes do not show a definite flash point. The FPV Pro series detects the smallest flash point and displays the sample contamination graphically.

Advanced Peltier Cooling Technology

The FPV Pro uses a patented cooling block that provides a high thermal contact conductance when the oven needs to cool down between tests. A Peltier element (thermoelectric cooling device) prepares the cooling block by cooling it before being moved into place to remove heat from the oven.

Patented Ignition Protection Technology

The FPV Pro's patented ignition protection technology reduces power consumption by at least 80%, compared to similar closed cup flashpoint analyzers on the market. The highly stable and robust ignition design, in addition to its efficiency, prevents high-power peaks and makes burning or damage to the electrodes impossible.

Automatic Ignition Cleaning Program

Ignition Protection Technology is intrinsic to the FPV Pro's design. Only 1-2 ml of samples are required for testing - without an open flame! The continuously closed cup design, automatic explosion probing and a controlled air feed protect against fire and offensive fumes. The automatic sample intake drawer ensures unmatched safety and highest comfort. The FPV Pro's ejecting sample drawer allows for simple and safe sample cup insertion. The open-tray design minimizes the risk of sample spillage during loading of the sample cup and keeps the operator's hands away from the oven surface, which is especially important for high temperature applications.

Ease of Use

The FPV Pro features intuitive menu navigation, no training is required. Hassle free communication with USB, LAN, LIMS and PC is assured.

AVAILABLE METHODS

ASTM D6450 (SHT0768) & D7094

Excellent correlation to
Pensky Martens Method - ASTM D93,
ISO 2719, DIN 51758, IP 34, JIS K 2265
TAG Closed Cup Method - ASTM D56
Abel Closed Cup - ISO 13736, IP 170

Excellent correlation to equilibrium and small scale methods EN ISO 3679/3680, ASTM D3828 A/B, IP 523/IP 524

Other Method / Test Types
Fuel Dilution
Flash / No Flash
Fast Screening
Custom / User Created

Grabner Difference Makers

Maximum safety with continuously closed cup design

No open flame, no hazardous vapors

1-2 ml sample size

Automatic stand-alone operation

Fast and accurate

Easy to use, easy to clean

Electric arc ignition

Portable for field use

US D.O.T, RCRA, NAVY, NATO approved

Approved for ASTM specifications for fuels and oils

Worldwide market leader for the flavors and fragrance industry

---

KEY FEATURES

Intuitive menu navigation on 10" color touchscreen

Full network, PC and LIMS integration

USB printer / receipt printer support and data transfer

Compatible with Plug and Play 12 Position Autosampler

Extended temperature range

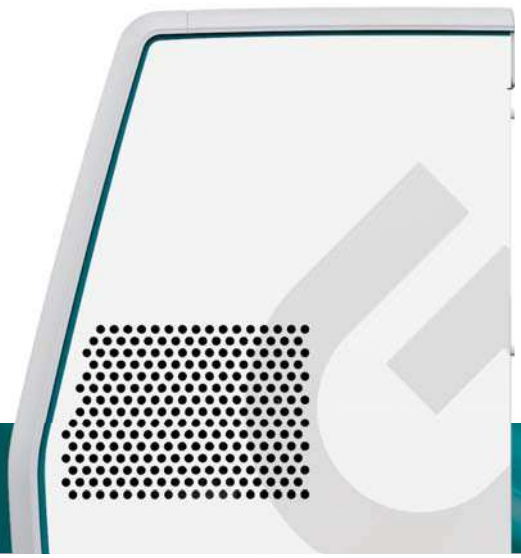
Unlimited number of methods and results

Automatic ignition cleaning program

Automatic sample loading and ejection

GRABNER FPV PRO

First to Innovate. Built to Last.



TECHNICAL DATA

Temperature Range	FPV Pro: • 0 to 120°C (32 to 248°F) without cooling • Down to -25°C (-13°F) with water cooling FPV Pro (High Temperature): • 10 to 400°C (50 to 752°F)
Temperature Stability	FPV Pro: ±0.05°C (0.09°F) FPV Pro (High Temperature): ±0.07°C (0.13°F)
Precision	ASTM D6450: Repeatability ±0.4°C (0.7°F) Reproducibility ±0.9°C (1.6°F) ASTM D7094: Repeatability ±0.5°C (0.9°F) Reproducibility ±0.9°C (1.6°F)
Sample Volume	1 ml (ASTM D6450) or 2 ml (ASTM D7094)
Fast Sample Throughput	Up to 16 samples/hour, depending on method
Interfaces	4x USB, 2x LAN
Instrument OS	Linux™
Power Supply	100-264 V AC, 45-63 Hz, max. 125/235 W (FPV/FPHV; auto-switching power supply). 12 V DC vehicle battery adapter available for field use
Dimensions (WxHxD)	293 x 390 x 280 mm (10.5 x 15.4 x 11 inch)
Weight	FPV Pro 10.2kg (22.4 lb) / FPV Pro (High Temperature) 11.2kg (24.6 lb)
Dimensions	293 x 390 x 280 mm (10.5 x 15.4 x 11 inch)



GRABNER

AMETEK

GRABNER INSTRUMENTS® Messtechnik GmbH A-1220 Vienna/Austria Dr. Otto-Neurath-Gasse 1 | +43/1/282 16 27-0 | www.grabner-instruments.com
PETROLAB COMPANY (USA) 2001 North Indianwood Avenue, Broken Arrow, OK, 74012, USA | +1-918-459-7170 | www.petrolab.com ©2023 AMETEK, Inc.