Automated Closed Cup Flash Point Analyzers

FP170 5G2

PAC
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ISL by PAC

FP170 5G2

Safe, precise Abel flash point testing has never been easier! ISL's FP170 5G2 combines a compact design together with user friendly automation to significantly increase your laboratory's productivity and improve test precision. Simply select from a list of pre-programmed testing conditions, then press the test button. Progress displays in real time on the local screen. With cooling immediately initiated, the FP170 5G2 is ready to begin another test in minutes. Its extensive local data storage is further supplemented by LIMS export capabilities, while the addition of ALAN® enables multi-instrument networking with centralized operation control and data management. With 20 standard and pre-programmed testing profiles to choose from plus your choice of gas or electric ignition, ISL offers ultimate versatility to suit your unique testing preferences and needs. Sophisticated quality control features—including traceable automatic calibrations with lock-out control, and automated quality verification—fulfill your ISO 9000 requirements.

ADVANTAGES

- Simple 1-button test initiation
- Protected thermal flash detection
- 3 programmable stirring rates
- Enhanced quality and calibration features
- Automatic lighting and monitoring of test flame
- Multiple safety features
- Solid state cooling bath
- Stand-alone operation or multi-instrument networking with ALAN™

APPLICATION RANGE

Volatility

- Petroleum Products
- Solvents
- Chemicals
- Fluxed Bitumen

STANDARD METHODS

- IP 170
- ISO 13736
- EN/ISO 13736
- NF M 07-011
- NF T66 009

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PAC Authorized Representatives are also located in most countries worldwide. For more information visit www.paclp.com

ISL by PAC

ISL is a global provider of scientific apparatus and instruments for testing petroleum and petrochemical products in the lab and online. More than 20 automatic analyzers bearing the ISL brand are recognized for increasing test precision, boosting laboratory efficiency and reducing costs.

UNPARALLELED VERSATILITY, ABSOLUTE SIMPLICITY

- Easy test initiation by factory pre-installed test method. Capability to customize test methods and conditions"
- Real-time display during testing, viewable from 5 meters (16½ ft.)
- Multi-language user support
- Quickly configurable gas or electric ignition
- Automatic lighting and test flame monitoring
- Tests samples containing water or silicone
- Optional cooling block for sub-ambient testing
- Detachable cup cover and shutter simplify cleaning

ENHANCED QUALITY FEATURES

- Built-in sensor for automatic barometric pressure correction according to ASTM or ISO methods
- Automatic, time-recorded calibrations with lock-out control
- Warning message when result is out of specification

SAFE, DEPENDABLE OPERATION

- Relights flame, if necessary, during operation and suppresses gas source at end of test
- Automatic fire detection system with external fire alarm connection
- Over-heating detection with automatic heat shut-off during test

OPTIONAL PC CONTROL & MULTI-INSTRUMENT NETWORKING

- Centralizes control and data management of up to 31 ISL ALAN-ready™ cold behavior, distillation & flash point instruments
- Automatically stores results to database with sorting, filtering capabilities
- Transmits results to external computer, network or LIMS with data extraction mask for each test program
- Compatible with other Windows-based applications

ORDERING INFORMATION	
FP170 5G2	Automated Abel Flash Point Analyzers (standalone operation)
Test Methods	Standard : IP 170, ISO 13736, DIN 51 755, EN ISO 13736, NF M07 011 & NF T66009 (fluxed bitumen) Customized: TAG simulation, User, Fast, Pass/Fail and Search methods
Patents and Certifications	Compliance CE and ISO9000
OPERATION	
Analytical principle	Abel Closed Cup
Ignition system	Interchangeable gas/electric
Flash detection	Thermal (standard, compatible with water or silicon contained samples) or Ionization ring (optional)
Cooling	Tap water or optional external recirculating chiller bath
Stirring	3 programmable stirring speeds (ISO/IP; NF; and no stirring)
Heating Rate	3 programmable rates: 0,6ºC/min, 1ºC/min and 3ºC/min
Calibration	Automatic and time-recorded calibration, programmable calibration frequency with lock-out control
Application range	-30 to +110 ºC (-22 to 230ºF)
Sample temperature measurement	Pt 100 glass probe Offset capability with correction table (21 points from -80°C up to 300°C).
Barometric pressure correction	Automatic correction with built-in pressure gage
DATA MANAGEMENT	
Documentation	"Real-time display on screen of test progress Results Instant Report in °C or K (visible from more than 5m)"
Internal Memory	20 sample specifications, 20 operator names, 20 test methods and 550 tests results. Statistics: computation of average, minimum, maximum values and standard deviation
SUPPLY & CONNECTIONS	
Gas type	Butane or propane gas source
Gas Supply	Maximum pressure of 40 mbar
Cooling Supply	Temperature of the cooling liquid must be 20°C lower than the Expected Flash Point (EFP).
POWER REQUIREMENTS	
Voltage	115 and 230 V
Frequency	50 / 60 Hz
Power	350 W
INTERFACE SPECIFICATIONS	
Display	LCD, ¼ VGA monochrome Alphanumeric keypad with dedicated function keys
Data input/output	Centronics® parallel link for text printer (40 columns). RS232C serial link for direct connection to LIMS or external PC ISL ALAN Suite connection for multi-instrument networking
ENVIRONMENTAL CONDITIONS	
Operating temperature	15 to 35°C (50 to 104°F)
Humidity	Relative humidity: up to 80% at 35°C (not condensing)
Storage temperature	-20 to 40°C (-4 to 104°F)
PHYSICAL SPECS	
Dimensions (W x D x H)	360 x 550 x 350 mm (14 x 21 x 14 inch)
Weight	25 Kg (55 lbs)

Due to continuing product development, specifications subject to change at any time without notice. All products are CE compliant.

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