



ANOTHER DIMENSION



APPLICATIONS:

Volatility

- PETROLEUM PRODUCTS
- SOLVENTS
- CHEMICALS
- FLUXED BITUMEN

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™**



**AUTOMATED FLASH POINT
Abel Closed Cup Tester**

FP 170 5G 2

Safe, precise Abel flash point testing has never been easier! ISL's FP170 5G2 pairs a conveniently compact design with user friendly automation to significantly **increase your laboratory's productivity** and **greatly improve repeatability and reproducibility**. Simply select from a list of pre-programmed testing conditions, then press the *Test* key. Progress displays in real time on the easily viewable 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.

METHODS:

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

ISL FP170 5G2 AUTOMATED ABEL CLOSED CUP

Maximum flexibility, precision, safety

SPECIFICATIONS

Ordering Information	FP170 5G2 Automated Abel Flash Point Tester includes LCD display and alphanumeric keypad with dedicated function keys. Select from: Ignition Detection Temperature Measurement – interchangeable gas/electric – protected thermal (standard) or ionization ring (optional) – PT100 probe delivered with calibration certificate
Test Methods Customizable	IP 170, EN/ISO 13736, NFM 07-011, NF T66 009 (FLUXED BITUMEN) TAG simulation, User, Fast, Pass/Fail & Search methods
Operation Temperature Range Heating Rate Stirring Rate Cooling Password Security	-30°C to 100°C (-22° to 230°F) 3 programmable rates: 0.5°C/min, 1°C/min, or 3°C/min 3 programmable speeds: ISO/IP, NF, or no stirring Tap water or optional external recirculating chiller bath Multi-level password protection
Calibration & Diagnostics	Automatic calibration with programmable frequency 21-point probe offset correction table Automatic diagnostic routines on analyzer functions Upload/download service features via PC; calibration parameters and unit program backup/restore feature
Documentation Reports/Statistics Data Input/Output Printer Output	Real time on-screen display of test progress; stores 550 tests, 20 sample specifications, 20 operator names and 20 different test methods Automatic result barometric pressure correction according to methods; computation of average, minimum & maximum values, and standard deviation RS 232C and PC ALAN™ connections standard Parallel (Centronics®)
Utility Requirements Electrical Gas (gas ignition only) Dimensions Weight Operating Environment	115/230 VAC; 800 W; 50/60 Hz; conforms to CE butane or propane source, 40 mbar maximum pressure 36cm W x 48cm D x 33cm H (14" x 20" x 13") 22 kg (42 lbs) 15 to 35°C (60 to 95°F)
Optional Accessories ALAN™ Software Draft Shield Gas Reducer Cryostat	Automatic Laboratory Analyzer Network. Enables multi-analyzer networking with centralized operation, data management, and results export directly to a LIMS system according to specific customized criteria with user defined protocol. Polymethacrylat shield protects flame from draft Gas pressure regulator External cooling unit; various models available

Due to continuing product development, specifications subject to change at any time without notice. 

FOR ADDITIONAL INFORMATION:

AMERICAS:

PAC — PETROLEUM ANALYZER COMPANY L.P.

3234 Pasadena Freeway, Pasadena, Texas, USA 77503
Phone: 800.444.TEST [713.590.7260] | Fax: 713.590.7266
sales@pacpl.com | www.pacpl.com

EUROPE, ASIA, AFRICA, MIDDLE EAST, AUSTRALIA:

INSTRUMENTATION SCIENTIFIQUE DE LABORATOIRE

BP 70285 - Verson - 14653 CARPIQUET Cedex - FRANCE
Phone: (33) 2 31 26 43 00 | Fax: (33) 2 31 26 62 93
sales@isl-france.com | www.isl-france.com

UNPARALLELED VERSATILITY, ABSOLUTE SIMPLICITY

- Test initiated by selecting sample name from pre-programmed list
 - preset and programmable test methods: search, fast and pass/fail
 - programmable heating rate allows various heating combinations
- Real-time display during testing, viewable from 5 meters (16 ½ feet)
- Multi-language user interface
- On-screen run mode customization
- Quickly configurable gas or electric ignition
- Automatically lights test flame (gas ignition)
- Solid state cooling bath

POWERFUL PRECISION, ENHANCED QUALITY FEATURES

- Built-in sensor for automatic barometric pressure correction
- Automatic, time-recorded calibrations with lock-out control
- Provides warning message when result is out of specification

SAFE, DEPENDABLE OPERATION

- Endurance tested and proven for long-term 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
- Quality construction and dependable operation backed by a limited parts and service warranty
- Expert sales and service from PAC's worldwide network of factory trained authorized representatives

OPTIONAL PC CONTROL & MULTI-INSTRUMENT NETWORKING

- Centralizes control and data management of up to 31 ISL ALANready™ 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

YOUR LOCAL REPRESENTATIVE: