

Next-Generation Flash Point Testing: Abel Closed-Cup Flash Point Tester Series

ABA 500 and ABA 300



The ABA 500/300 series is a first-class solution for automatic, high-precision Abel flash point testing of samples like jet fuels, solvents, and flavors and fragrances.

FIND OUT MORE



<https://www.anton-paar.com/apb-aba>

With the Abel closed-cup flash point tester series, ABA 500 and ABA 300, you can easily determine the flash point according to all relevant standards. It is a first-class solution for automatic high-precision flash point testing of samples like jet fuels, solvents, flavors and fragrances, and chemicals. Thanks to innovative cooling options, the series allows flash point testing across a sample temperature range from -35 °C to +130 °C. Both Abel flash point testers offer excellent heating control and a full feature set for accurate flash point results. The clever instrument design is ahead of that of competitors, and saves costs since the electric igniter has the longest lifetime on the market and delivers unparalleled sample throughput thanks to short maintenance cycles and simple cleaning. Also, ABA 500 is one of the safest Abel flash point testers available.

Full compliance

ISO 13736, IP 170, ISO 1516, ISO 1523, IP 492, EN 924, IP 491, and more

Highlights

- Electric igniter with patented design and ceramic coatings: 10x longer lifetime than the competition, eliminating costly downtimes and high running costs
- Unparalleled two-in-one instrument combination (can be operated with and without external chiller) for top flexibility and the widest sample spectrum: -35 °C to +130 °C sample temperature
- Most powerful features compared the competition: disassembly of wetted parts within seconds and easy cleaning for zero sample carry-over, and status light for intelligent instrument feedback to ensure efficient work in the lab
- Maximum safety for operator and lab: fail-safe fire detection system, combined with fire extinguisher
- Connectivity for increased productivity in your lab and improved data quality: Anton Paar's fully implemented lab execution software, AP Connect, automated e-mail or LIMS export, and more

	ABA 300	ABA 500
	↓	↓
Application range (flash point temperature)	10 °C to 110 °C	Air-cooled 10 °C to 130 °C Liquid-cooled -30 °C to +130 °C
Sample temperature range	-7 °C to +110 °C	Air-cooled -7 °C to +130 °C Liquid-cooled -35 °C to +130 °C
Ignition type	Electric (encapsulated hot wire)	Electric (encapsulated hot wire) Optional gas ignition
Cooling	Fan-supported Peltier cooling technology	Fan- and liquid-supported Peltier cooling technology
Barometric pressure correction	Flash point is automatically corrected to barometric pressure	
Flash detection	Automatic detection by thermocouple	
Sample temperature	Automatic by Pt100	
Safety	Optional automatic fire-extinguishing system in combination with a unique optical fire detection system Overheat protection, automatic shut-off Detects a "flash" outside the cup User management with different access levels	Integrated automatic fire-extinguishing system in combination with a unique optical fire detection system Overheat protection, automatic shut-off Detects a "flash" outside the cup User management with different access levels
Calibration	Calibration of sample and block temperature, stirrer speed, and internal barometer	
Memory	1 GB space for approx. 50,000 tests and 1,000 users	
Interfaces	2 × USB, 1 × LAN	4 × USB, 1 × LAN
Power supply	100 V to 240 V, 50/60 Hz, 300 W	
Gas supply	Optional fire extinguisher: CO ₂ or N ₂ inert gas; inlet pressure 400 kPa to 500 kPa	Integrated fire extinguisher: CO ₂ or N ₂ inert gas; inlet pressure 400 kPa to 500 kPa Optional gas ignition: 50 mbar of propane or butane
Dimensions	262 mm × 472 mm × 437 mm (W × D × H)	262 mm × 497 mm × 477 mm (W × D × H)
Weight	Ca. 14 kg	Ca. 15 kg