A-CFPP

Automatic Cold Filter Plugging Point Tester

EN 16329   EN 116   ASTM D6371   IP 309

- **Innovative cooling system that does not require an external cryostat**
- **Test module recognition system with automatic calibration data loading**
- **The direct temperature setting feature enables the analyzer to go to the operating mode quickly before beginning a test**
- **Built-in system for sample defrosting at the end of analysis makes it possible to reduce the preparation time for the next test run**

- **Creating user-defined test programs**
- **Separate cleaning station for the test module**
- **Automatic filter cleaning using a separate test program**
- **Automatic measurement result repeatability calculation**
- **Linear and stepped sample cooling**
- **Remote update of integrated software, data export to LIMS via Ethernet**
- **Suitable for use in mobile laboratories**

A-CFPP is a fully automatic, compact, self-contained cold filter plugging point analyzer, controlled by a touch screen. It contains all the necessary components for analysis according to standard methods. Method settings and test results fully comply with ASTM D 6371, EN 116, EN 16329, JIS K2288 and IP 309.

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Autonomous cooling system that does not require an external cryostat
The cooling system is compact, is located inside the device, fully meets all the requirements of standards, and does not require maintenance throughout the entire service life.

Test module recognition system with automatic calibration data download
The instrument detects which test module is installed and automatically downloads the calibration parameters to eliminate operator error. If a recalibration is required, the instrument has clear calibration procedures for both temperature and vacuum, which increases the accuracy of the test.

Saving time
A-CFPP features minimal downtime. Once the second test module with filter is prepared, you are ready to perform the next test within seconds. An increase in productivity is possible due to the ability to wash the test module in automatic mode in parallel with the analysis, using an additional washing station.
For even greater time saving, the device automatically defrosts the sample at the end of the experiment using built-in heating elements.

Methods for cold filter plugging point determination
The A-CFPP analyzer comes pre-programmed with standard test methods that can be selected from the main menu. If you want to use your own methods, you can easily create them and save them in the analyzer's memory.

Integrated data processing and color touchscreen display
The device has modern capabilities provided by the built-in data processing system:
The large color display provides real-time sample and cooling bath temperatures, as well as additional graphical information on sample suction and backflow time to monitor sample temperature changes during testing.
In terms of statistics, the A-CFPP analyzer can store 2000 test results in

its memory. The A-CFPP analyzer provides a USB connection for exporting analysis results in Excel or PDF format.
For greater operational flexibility and efficient use, the filter test block can be easily disassembled for cleaning and quickly reassembled for the next test. This procedure is necessary and meets the requirements of standard methods. This procedure verifies the cleanliness and dryness of all elements for accurate results.
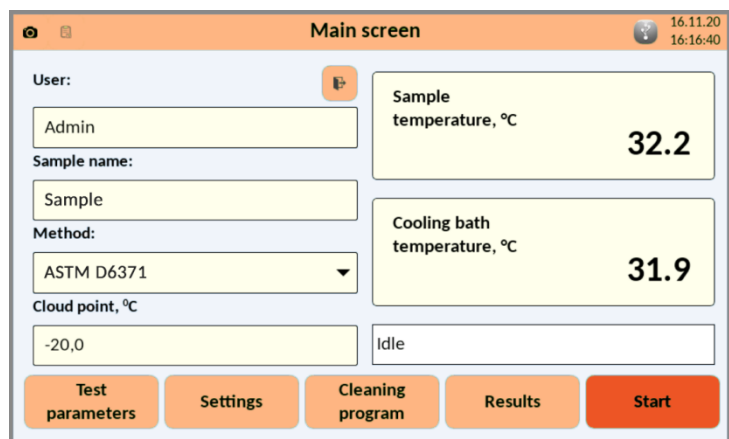
Linear and staged sample cooling

In addition to the traditional staged cooling method, the A-CFPP analyzer allows the application of the recently released new standard method EN 16329 with linear cooling.

Currently EN 16329 is included in the European Diesel Fuel Specification EN 590 and acts as an alternative method in relation to EN 116.
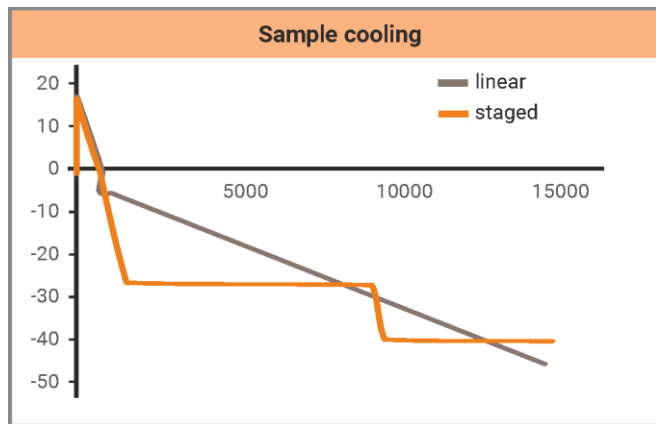
Suitable for use in mobile laboratories

Methods	EN 116, IP 309, ASTM D6371, EN 16329
Sample detection	Top and bottom infrared sensors, special design to prevent icing at low temperatures
Calibration	Automatic sensor calibration: sample temperature, bath temperature and vacuum
Bath temperature range	+65...-105 °C
Vacuum	Automatic vacuum control with the ability to set a complex profile
Method customization options	Number of cooling "stages" cooling "stage" temperatures aspiration time and frequency complex vacuum profile
Cooling profile	Staged or linear cooling method
Temperature measurement	Pt100, Class A, automatic identification and loading of calibration parameters
Cleaning	Programmable with cleaning check function possibility of cleaning at the rinsing station and in the cooling block
Custom functions	7 inch color touch screen storage for up to 2000 experiments the ability to transfer data to LIMS keyboard and mouse connectivity barcode scanner connectivity
Power supply	100-240V, 50/60 Hz, 300W
Dimensions WxDxH	240x500x400 mm
Weight	25 kg
Connections	1 x Ethernet, 4 x USB, Wi-Fi
Accessories	Metal sample temperature sensor, printer, barcode scanner

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