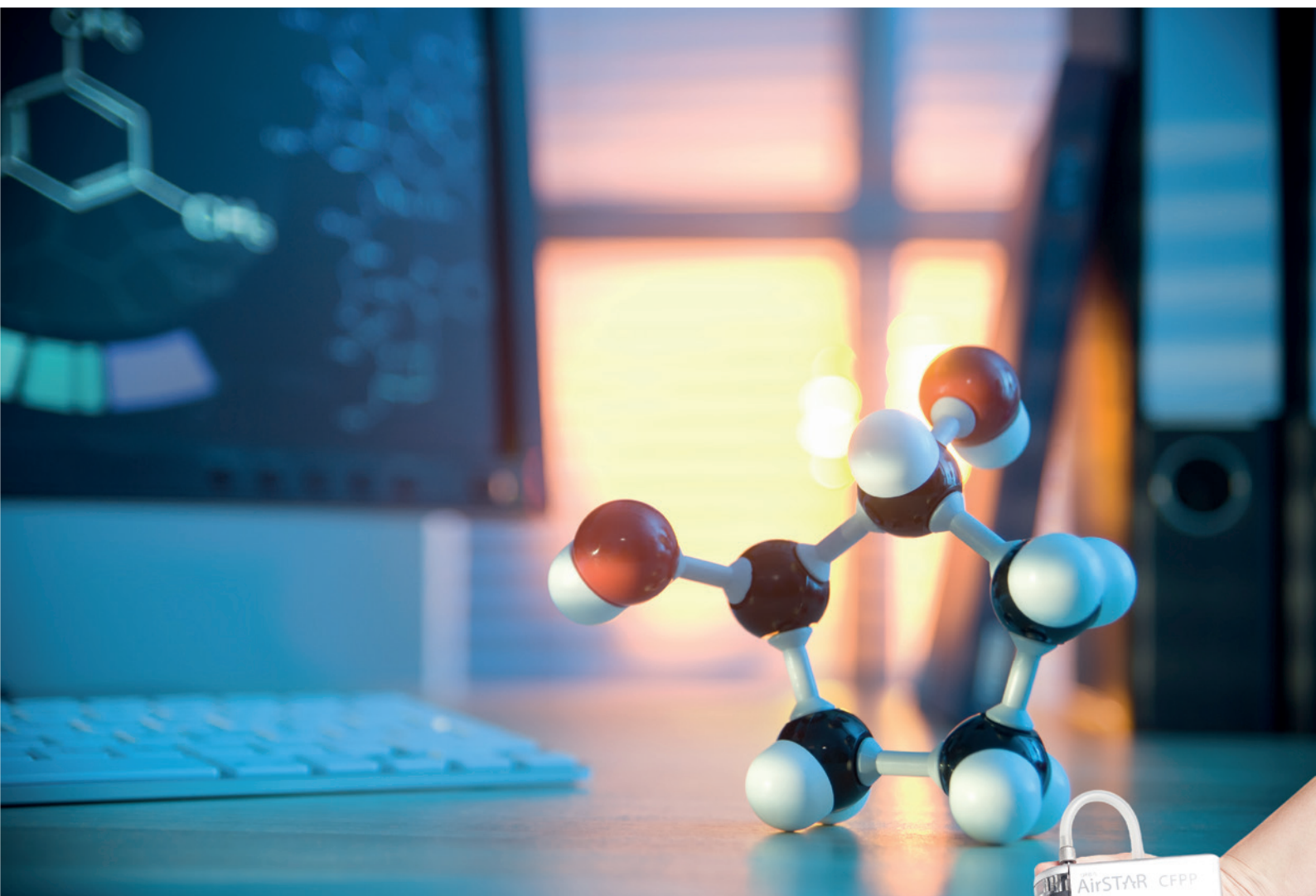


ORBIS BV

Innovation in cold behavior



ORBIS AirSTAR CFPP

Cold Filter Plugging Point testing

by Orbis BV





discover the
new way of
CFPP testing

About AirSTAR CFPP Analyzer

Cooling. The ColdBlock integrated cooling unit is friendly to environment, people and maintenance department. With the capacity to cool down to -105°C , no external chillers are required. ColdBlock is completely liquid-free.

Concept. AirSTAR CFPP is modular: ColdBlock and CFPP Head are modules that can be combined and used independently from one another. Imagine for instance two ColdBlocks and three CFPP Heads, where one Head is always clean and ready for start on either one of the two ColdBlocks.

Innovation. AirSTAR CFPP is full of innovative technology that makes CFPP testing easier, faster, and more reliable. One example is the cable-free design. Users simply take out the CFPP Head from the ColdBlock and put it in the Cleaning-Docking station, and vice versa. All without having to (dis)connect any cables or hoses.

Results. AirSTAR CFPP strictly conforms to applicable ASTM, EN, IP and JIS methods, and results are reliable and precise. Results are stored on the iPad and printed on almost any printer. Other options: connect to Windows PC, send to LIMS and/or email results directly from the iPad.



CFPP Analyzer

The AirSTAR CFPP Analyzer includes:

- AirSTAR ColdBlock cooling unit + iPad mini
- AirSTAR CFPP Head
- AirSTAR WiPower - Cleaning-Docking station
- Spacer cage ASTM D6371

Cleaning-Docking station



CFPP Head

CFPP Head features:

- Integrated microprocessor-controlled vacuum pump for constant -2.0 kPa pressure according to method specifications
- Accurate sample detection with laser technology, even when condensation and frost forming occurs
- Powercast® technology for wireless power to CFPP Head
- Pipette & filter unit, according to method specifications
- PT-100 easy click-connect, built in storage for calibration data & unique ID
- Easy assembling

What is CFPP?

... CFPP, or Cold Filter Plugging Point, is the (low) temperature at which a diesel/heating fuel will not pass through a standardized filter anymore, measured under cooling, vacuum & time conditions as described in the methods ASTM D6371, EN116, EN16329, IP309 and JIS K2288.



The AirSTAR CFPP software application is designed for easy & flexible control. It offers extensive options for data recording and display, and many options to customize programs. Test results and progress animation are displayed real-time.

Features:

- Create linear and stepped cooling profiles
- Create and change vacuum profiles
- Specify end-test conditions in program
- Monitor and record sample cooling rate
- Quick report of anomalous aspiration behavior
- Pre-programmed and customizable cleaning cycles
- Multiple users with variable access rights can be created by the administrator
- Connect multiple CFPP Heads to one Coldblock
- Extensive storage capacity for results, programs, settings, user information and more (16Gb iPad)
- Connect with PC (Windows operated systems) for exchanging results and settings via FTP
- Data handling options such as: send results to LIMS, make and email PDF
- Printing options such as: print PDF via AirPrint and Direct Printing on connected Kiosk printer
- Extensive options to calibrate bath jacket, vacuum pump, PT-100 probe and electronics

	AirSTAR CFPP Analyzer
Methods	EN 116, IP 309, ASTM D6371, JIS K 2288, EN 16329.
Sample flow detection	3 laser beam detection barriers
Calibration	Extensive calibration routines for sample + bath jacket temperature and vacuum measurement. Temperature probe offset table. Programmable frequency of calibration notifications
Temperature range:	+65°C down to -105°C (-175°F to 95°F)
Vacuum	Microprocessor controlled; constant and dynamic profiles customizable.
Test/Aspiration Settings	Test can be started at programmable temperatures. Option for customized time and aspiration intervals.
Cooling profiles	Stepped and linear cooling profiles customizable (from 1 to 60°C/h). Unlimited storage capacity.
Temperature Measurement	°C or °F; PT 100 class A probe, automatic probe ID detection with built-in calibration data storage. Calibration certificate standard supplied.
Cleaning	Quick programmable cleaning cycles, in addition to required cleaning according to method specifications. Cleaning is executed in Cleaning-Docking station or within ColdBlock.
Voltage	100–240 VAC, 50/60 Hz
Power	150 W
Dimensions	16cm x 59cm x 35cm (W x D x H)
Weight	25 kg



ALSO AVAILABLE

AIRSTAR CFPP AUTOMATOR

FOR USE ON EXISTING (MANUAL) COOLING BATHS



Unique!
Keep your manual
cooling bath and
automate your
CFPP test!

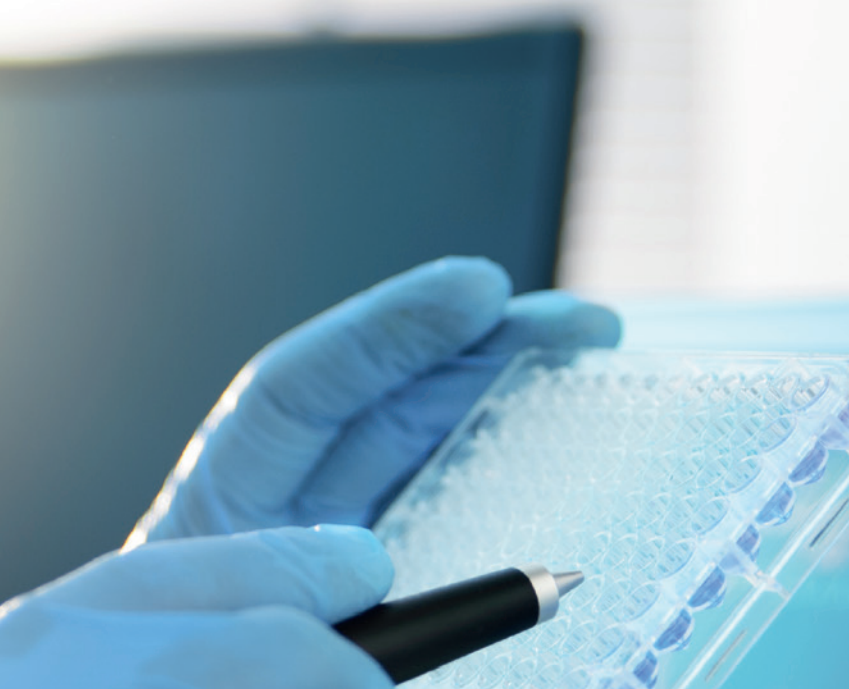
The Automator includes:

- AirSTAR CFPP Head
- AirSTAR Cleaning-Docking station
- Apple iPad mini
- Apple iPad mini docking station
- No cooling unit included!

The Automator is a fully automatic self-contained CFPP tester, and can be used in combination with existing CFPP cooling baths (and even some Cloud & Pour Point baths).

When the sample temperature reaches -20°C (or lower, at -35°C), lights will flash and signals will sound indicating that the CFPP Head needs to be taken out of and put into the next temperature bath jacket (-51°C / -69°C).

Up to 8 Heads can be controlled simultaneously within 1 AirSTAR CFPP Automator configuration. A CFPP Head can either be powered wirelessly or with the supplied power adapter. When placed in the Cleaning-Docking station, quick programmable cleaning cycles can be carried out in addition to thorough manual cleaning according to the method.



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DEMONSTRATION?**

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Go to
ORBISBV.COM
and also check out
our **PAMv2***

*automatic distillation for
ASTM D86



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About ORBIS BV:

Our expertise in equipment for testing physical properties of petroleum products originated in the 1970's. ORBIS BV was founded in 1999.

Our mission:

Making petroleum analyzers that save customers time and money, while producing highly precise, accurate and method-according test results.

Our passion:

Using technology's latest innovations to make our instruments reliable, smart and easy to use, while maximizing performance and efficiency. And all that within a slim design.

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