



Cloud and Pour Point testing by Orbis BV

*Technology for Pour Point
is based on the "Tilt Method"*



AirSTAR CP/PP Analyzer
... including ColdBlock cooling unit

AirSTAR CP/PP

The new instrument for Cloud & Pour Point testing
by Orbis BV



The AirSTAR CP/PP Analyzer includes:

- AirSTAR ColdBlock cooling unit + iPad mini 2
- AirSTAR CP/PP Head
- AirSTAR WiPower Docking station

About AirSTAR CP/PP 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 CP/PP is modular: ColdBlock and CP/PP Head are modules that can be combined and used independently from one another. Imagine for instance two ColdBlocks and three CP/PP Heads in one set-up, where one Head is always clean and ready for start on either one of the two ColdBlocks. Or include even **CFPP** Heads in the set-up to make AirSTAR a full range cold properties testing instrument.
- **Innovation.** AirSTAR CP/PP is small full of innovative technology that makes CP/PP testing easier, faster, and more reliable. One example is the cable-free design. Users simply take out the CP/PP Head from the ColdBlock and put it in the Docking station, and vice versa. All without having to (dis)connect any cables.
- **Results.** AirSTAR CP/PP 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 any printer. Other options: connect to Windows PC, send to LIMS and/or email results directly from the iPad.

CP/PP Head features:

- Integrated microprocessor-controlled mechanism for lifting and tilting of the jar
- Accurate cloud & pour point detection with high definition camera
- Powercast® technology for wireless power to CP/PP Head
- Integrated chip for communication ColdBlock
- PT-100 easy click-connect, built in storage for calibration data & unique ID
- Easy assembling



About Cloud and Pour Point

Cloud Point is the temperature at which a cooled sample first shows a cloudy appearance because of wax forming, measured under conditions described in the methods ASTM D2500 and D5773 and related methods.

Pour Point is the temperature at which a cooled sample first becomes semi solid and loses its flow characteristics, measured under conditions described in the methods D97 and D6892 and related methods.

Operation

The AirSTAR CP/PP 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:

- Run 1 test and get both Cloud and Pour point results
- Create linear and stepped cooling profiles
- Programmable warm-up of cooling bath before and after test
- Specify end-test conditions in program
- Monitor and report sample cooling rate data
- Define "start-at" temperature for each test
- Multiple users with variable access rights can be created by the administrator
- Connect multiple CP/PP Heads to one ColdBlock
- Extendable with CFPP Head for Cold Filter Plugging Point testing
- Unlimited (12GB) storage capacity for results, programs, settings, user information and more
- 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 & XML files
- Printing options such as: print PDF via AirPrint and Direct Printing on connected Kiosk printer
- Extensive options to calibrate bath jacket, PT-100 probe and electronics.

Technical specifications:

	AirSTAR CP/PP Analyzer
Methods	<u>Cloud Point</u> : ASTM D2500, D5773, IP219, IP444, ISO3015, JISK2269. <u>Pour Point</u> : D97, D6892, D5853, IP15, ISO 3016, JISK2269
Sample behavior detection	High definition camera
Calibration	Extensive calibration routines for sample + bath jacket temperature measurement. Temperature probe offset table for up to 12 calibration points. Programmable frequency of calibration notifications.
Temperature range:	+65°C down to -105°C (149°F down to -175°F)
Test settings	Test can be started at programmable temperatures. Option for customized time and test intervals (every 1 or 3 °C, etc)
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.
Connectivity	RJ45 port for connection to PC/Server & printer. Connection to iPad through internal WiFi network (completely independent, not interfering with laboratory network).
Voltage	100–240 VAC, 50/60 Hz
Power	150 W
Dimensions	16cm x 59cm x 35cm (W x D x H)
Weight	25 kg

AirSTAR CP/PP Analyzer is available from fall 2016

Interested in a live demonstration or quote? Contact us at sales@orbisbv.com.

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