

CLOUD AND POUR POINT AUTOMATIC TESTER WITH INTEGRATED COOLING (STAND-ALONE UNIT) ASTM D 2500, D 97 - IP 219, IP 15 - ISO 3015, ISO 3016

The apparatus consists of a benchtop case containing the cooling compressor, the thermally insulated jacket and supporting the analytical head. An 8.4" touch screen interface on the front permits to control the instrument, retrieve and print data and calibrate the sensors. Two USB, serial and Ethernet connector on the rear panel allows the user to connect to printers or network: by using a wireless dongle it's possible to connect the instrument to any wireless network.



CCPP-60

- Enamel finished steel-aluminium case, benchtop version.
- Insulated metal jacket conform to ASTM, IP, DIN and ISO standard methods.
- One glass sample container with mirror conform to ASTM, IP, DIN and ISO standard methods.
- Two models, one for jacket temperatures till -60°C (suitable for tests at standard temperature of 48, 24, 0, -18, -33 and -51°C) and one till -80°C (suitable also for -69°C tests) with $\pm 0.2^{\circ}\text{C}$ regulation accuracy. Both units are equipped with a patent-pending integrated cooling system based on thermoelectric cooling: in this way we have reduced dimensions, weight, power consumption, noise and heat dissipation making moreover the equipment more reliable since single-stage cooling compressors require much less maintenance if compared with cascade double-stage ones.
- Optical detection of cloud point based on continuous reflected IR light percentage. Accuracy of temperature reading: $\pm 0.1^{\circ}\text{C}$.
- Micro Thermal detection of pour point. Motorized arm that lifts and tilts the sample container out of the jacket at programmable intervals: mimic ASTM D 97. Accuracy of temperature reading: $\pm 0.1^{\circ}\text{C}$.
- 8.4" touch screen interface that permits to introduce the analytical data, control the test and display the results. Tests can be run according to ASTM/ISO methods or to user defined methods. Software includes diagnose and calibration tools with all modern QC routines.
- Two USB, one RS-232 and one Ethernet connector for connecting to printers and network even through wireless dongles.
- English written user manual. CE marked.
- For 220 V/50 Hz connections: 700 W power consumption (CCPP-60) and 1000 W (CCPP-80).
- Dimensions and weights (l x w x h): 350x700x700 mm, 40 kg (CCPP-60) and 400x750x750 mm, 50 kg (CCPP-80).

CCPP-60 Apparatus for tests from $+50$ to -60°C (jacket temperature)
CCPP-80 Apparatus for tests from $+50$ to -80°C (jacket temperature)

ACCESSORIES

PRN01 Printer

CONSUMABLES

CCPP000 Sample container
OR3131 O-Ring for sample container
CP021 PT100 for the sample (Cloud Point)
PP021 PT100 for the sample (Pour Point)
CP023 Fiber Optic
PP024 Detection PT100 (two required)

Specifications may vary without notice.

The apparatus includes the items listed aside the picture, accessories etc. should be purchased separately.



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