

APPARATUS FOR THE DETERMINATION OF FREEZING POINT OF ANTIFREEZE LIQUIDS ASTM D 1177

The apparatus consists of a benchtop case containing the jacket capable to reach -120°C , the cooling compressor, the electronics and supporting the analytical head. An 8.4" touch screen interface on the front permits to control the instrument enter data, start tests, retrieve, print reports and calibrate the sensors. Two USB and one Ethernet connector on the rear panel allow the user to connect to printers or network.



- Enamel finished steel-aluminium case, benchtop version.
- Thermally insulated jacket reproducing the dimensions of the Dewar flask and capable to reach -120°C .
- One 75 ml glass sample container.
- Seeding jacket: a small jacket capable to freeze a small portion of sample for seeding located aside the sample jacket. Complete with one glass tube and one wire with hook.
- Stirling cooling compressor capable to reach -120°C and completely CFC/HCFC free.
- Thermal detection of freezing point through Pt100 RTD: sample is cooled and a buzzer alerts the user when seeding temperature is reached. Once freezing point is detected, sample is cooled furthermore for an adjustable interval.
- Temperature sensor: Pt100 RTD. Accuracy of temperature reading: $\pm 0.1^{\circ}\text{C}$.
- Electric stirrer 75 rpm complete with s.s. stirring coil and mechanism.
- 8.4 inches touch screen interface that permits to introduce the analytical data, control the test and display the results. Tests can be run acc. to ASTM/IP/ISO/DIN methods or to user defined methods. Software includes diagnose and calibration tools with all modern QC routines.
- Two USB and one Ethernet connector for connecting to printers and network.
- For 220V/50Hz connections: 300 W power consumption.
- Dimensions (l x w x h): 420 x 700 x 720 mm. Weight: 30 kg. approx.

AFPultra Apparatus for the determination of Freezing Point of antifreeze liquids

ACCESSORIES

PRN01 Printer
CAL001 PT100 simulator
CAL003 Official Certificate for Pt100 simulator

CONSUMABLES

AD1177-C00 Glass sample container, 75 ml
AD1177-C01 Seeding tube

Specifications may vary without notice.

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

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