

# APPARATUS FOR THE DETERMINATION OF FREEZING POINT OF ANTIFREEZE LIQUIDS ASTM D1177

The apparatus consists of a benchtop case containing the cooling compressor, the jacket, the electronics and supporting the analytical head. An 8.4" touch screen interface on the front permits to control the instrument, retrieve, print reports and calibrate the sensors. Two USB and Ethernet port on the rear panel allows 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 capable to reach -100°C approx. in about 30 min equipped with a patent-pending integrated cooling system: no need of external cooler or cryostat.
- One 75 ml glass sample container with volume conform to ASTM D1177.
- 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.
- Electric stirrer 75 rpm complete with s.s. stirring coil and mechanism.
- 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: +/- 0.1°C.
- Working range: from +60 to -110°C.
- 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 - 50/60Hz connections: 400 W.
- Dimensions (l x w x h): 420 x 500 x 800 mm. Weight: 25 kg. approx.

AFPplus Freezing point automatic tester (for engine coolants)

#### 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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