

# FREEZING POINT AUTOMATIC TESTER WITH INTEGRATED COOLING (STAND-ALONE UNIT) ASTM D 2386 - IP 16 - ISO 3013 - DIN 51421

The apparatus consists of a benchtop case containing the cooling compressor with the cooling jacket and supporting the analytical head. An 8.4" touch screen interface on the front permits to control the instrument, calibrate the sensors, retrieve and print data. Two USB, serial and Ethernet connector on the rear panel allows the user to connect to printers or network.



FP-80

- Enamel finished steel-aluminium case, benchtop version.
- Insulated metal jacket conform to ASTM, IP, DIN and ISO standard methods.
- One glass sample container conform to ASTM, IP, DIN and ISO standard methods.
- Thermally insulated jacket capable to reach -80°C in less than 30 min equipped with a patent-pending integrated cooling system based on thermoelectric cooling: this technology has permitted to reduce dimensions, weight, power consumption, noise and heat dissipation making the equipment more reliable since single-stage cooling compressors require much less maintenance if compared to cascade double-stage ones.
- Optical detection of freezing point through IR sensor: sample is cooled until crystals appear and then heated until their disappearance to determine the result.
- Temperature sensor: Pt100 RTD. Accuracy of temperature reading: +/- 0.1°C.
- Electric stirrer 75 rpm complete with brass 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, one RS-232 and one Ethernet connector for connecting to printers and network even through wireless pendrives.
- English written user manual. CE marked.
- For 220 V/50 Hz connections: 1000 W power supply.
- Dimensions and weights (l x w x h): 400x750x750 mm, 50 kg.

FP-80                    Apparatus

**ACCESSORIES**

PRN01                    Printer

**CONSUMABLES**

FP020                    Sample container  
OR168                    O-Ring for sample container  
FP021                    Pt100 for sample temperature detection  
FP022                    Fiber optic  
FP023                    Stirrer coil  
FP024                    Stirrer motor

Specifications may vary without notice.

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



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