

# 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 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.



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- Enamel finished steel case, benchtop version.
- Insulated metal jacket conform to ASTM, IP, DIN, EN and ISO standard methods.
- One glass sample container conform to ASTM, IP, DIN, EN and ISO standard methods.
- Stirling cooling compressor: working range from +60 to -120°C. CFC/HCFC-free cooling system.
- 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 and one Ethernet connector for connecting to printers and network.
- English written user manual. CE marked.
- For 220V - 50 Hz connections: 300 W.
- Dimensions and weights (l x w x h): 420x700x720 mm. Weight: 30 kg approx.

FPultra Freezing Point automatic tester

#### 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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