

Melting Point Apparatus

Stuart, SMP3 Advanced Melting Point Apparatus

Designed for fast and accurate measurements of melting points. Heating block accommodates up to 3 samples and incorporates a platinum resistance sensor for responsive temperature control. A membrane key pad allows easy setting of the desired start temperature and heating ramp rates (fully adjustable from 0.5°C to 10°C per minute) in 0.1°C increments.

- // Accommodates up to 3 samples
- // Maximum temperature 360°C
- // Programmable heating rates
- // Melt temperature storage
- // Automatic cooling
- // User friendly alpha-numeric display
- // Supplied with calibration certificate
- // Language is switchable between English, French, Italian and Spanish
- // 3 year warranty



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The user friendly backlit alphanumeric LCD display advises both the temperature and the specific stage of operation. Clear observation of the samples and melt process is aided by a powerful magnifying lens and high intensity illumination. When measurements of melt are being made, the temperature may be stored in the instrument's memory by pressing the storage buttons. The values can be recalled at a convenient time.

Once the heating cycle is completed, an integral air pump quickly cools the heating block so that the next series of tests can be commenced promptly. Each unit is supplied with an individual calibration certificate showing actual temperature accuracy and serial number for full traceability.

Cat. No.	Description
439-024	SMP3 Melting Point Apparatus, supplied with 100x melting point tubes (closed at both ends)
439-023	Melting point tubes, open both ends, pk 100

Specification

Temperature range	Ambient to 360°C (resolution 0.1°C)
Accuracy	±0.5°C at 20°C, ±1.5°C at 360°C
Ramp rate, °C/min	0.5 to 10 in 0.1°C increments
Dimensions (wxdxh), mm	180x260x190 closed – 300 extended
Weight, kg	3.5

Stuart, SMP11 Analogue Melting Point Apparatus

- // Easy to operate
- // Supplied with safe spirit filled thermometer
- // Economical price

The SMP11 measures the melting point of chemicals from ambient to 250°C. Samples need to be placed in a sealed end capillary tube and located in the heating block. Up to three tubes can be tested at one time. The heating rate can be adjusted manually between 20°C/min, for rapid heating and 1°C/min, to obtain an accurate melting point range.

The sample and melt process can be viewed via the magnifying lens, which is illuminated by bright LEDs. The melt temperatures are recorded from the thermometer, which is positioned horizontally to the samples to allow simultaneous viewing. The thermometer is filled with low toxic spirit making it completely safe in the event of a breakage. The lens can be detached for cleaning and simple to follow instructions are printed directly onto the unit, making it very easy for students to use.

Specification

Display	Analogue	Dimensions (wxdxh), mm	370x140x110
Temperature Range, °C	0 to 350	Weight, kg	1.6
Ramp Rate, °C	1 to 20	Power	230V, 50Hz, 50W

Cat. No.	Description
439-030	SMP11 Analogue Melting Point Apparatus
439-031	SMP11/1 Spare thermometer 0°C to 360°C
439-032	SMP1/2 Cooling plug (brass) for rapidly reducing heating block temperature after use
439-023	SMP1/4 Glass Melting Point Tubes, open at both ends (pack of 100)

