Melting Point

Melting Point Apparatus Stuart Model SMP10

A general purpose model designed for safe, easy operation. Does not require a mercury-in-glass thermometer making it ideal for educational use.

◆ Maximum temperature 300°C

◆ Digital temperature setting and control with LED readout

◆ Pt100 temperature sensor

◆ Two heating ramp rates selectable:
— 20°C/minute to plateau temperature
— 2°C/minute to melt

◆ Accepts up to 2 sample tubes

◆ Built-in sample illumination

◆ Extendible rear feet for optimal viewing angle

Melting Point Apparatus, SMP10

As described. Maximum temperature 300°C. Accuracy ±1°C at 20°C, ±2.5°C at 300°C. With Pt100 sensor, digital setting and control to 1°C, and LED readout. Overall 160 x 220 x 170mm W x D x H. Weight 1.8kg. For 230V 50Hz single phase supplies, 75W. Supplied with calibration certificate and 100 melting point tubes, closed one end.

MG158-10 SMP10

Melting point capillary tubes, neutral glass, 100mm long with nominal bore as indicated. (1mm bore tubes are 1.2 to 1.4mm o.d., 0.9 to 1.1mm i.d., 2mm bore tubes are 1.8 to 2.0mm o.d., 1.4 to 1.6mm i.d.) Supplied in packs of 1000.

	Bore, mm
Sealed both ends	
MG140-10	1
MG145-10	2
Sealed one end	
MG140-20	1
MG145-20	2
Open both ends	
MG140-30	1
MG145-30	2

Melting Point Apparatus Stuart Model SMP20

An enhanced model of MG158-10, with additional features to improve functionality and ease of use.

◆ Maximum temperature 300°C

◆ Digital temperature setting and control

◆ 4 digit LED display and adjustable resolution 0.1/1°C

◆ Pt100 temperature sensor

◆ 'Hold' button freezes the display when pressed at viewed melting point

◆ Two heating ramp rates selectable:
— 20°C/minute to plateau temperature
— adjustable ramp rate 1 to 10°C/minute to melt

◆ Accepts up to 2 sample tubes

◆ Built-in sample illumination

◆ Extendible rear feet for optimal viewing angle

Melting Point Apparatus, SMP20

As described. Maximum temperature 300°C. Accuracy ±1°C at 20°C, ±2.5°C at 300°C. With Pt100 sensor, digital setting, control adjustable to 0.1/1°C, and 4 digit LED readout. Overall 160 x 220 x 170mm W x D x H. Weight 1.8kg. For 230V 50Hz single phase supplies, 75W. Supplied with calibration certificate and 100 melting point tubes, closed one end.

MG165-10 SMP20

Melting Point Thermometers
Mercury filled. Length 250mm. Immersion 30mm.

	Range °C	Grads. °C
TG790-35	0 to 150	0.5
TG790-37	0 to 360	1.0

Melting Point Apparatus Stuart Model SMP30

◆ Maximum temperature 400°C x 0.1°C resolution

◆ Accepts up to 3 sample tubes

◆ 'Plateau facility' gives adjustable ramp rate between 0.5°C and 10°C per minute in 0.1°C increments

◆ Memory storage available to record up to 8 temperature event values from each sample

◆ Integrated cooling: 350°C to 50°C in 20 minutes

◆ 2-stage adjustable folding viewing head (height and angle) with head-up display indicating block temperature, visible through the eyepiece in front of the sample tubes

◆ Pt1000 temperature sensor

◆ Sample tubes illuminated by white LED's to maximise visibility of the melt

Model	SMP30
Range	Ambient to 400°C
Accuracy	±0.5°C at 50°C ±2.5°C at 360°C
Ramp rate	0.5 to 10°C per minute
Memory	Up to 8 readings per sample
Capillary tubes	Up to 3, 2mm i.d. maximum
Overall W x D x H	170 x 200 x 325mm
Weight	3.6kg

As described. Supplied with calibration certificate and 100 melting point tubes, closed one end. For 230V 50Hz single phase supplies.

MG170-35 SMP30

Mercury Thermometers
Under the requirements of Annex XVII of EC552/2009 REACH Regulations, mercury thermometers cannot be sold to the General Public within the EU.

MG158-10

MG165-10

MG170-35