

Melting Point

Melting Point Apparatus Stuart Model SMP50

Innovative, automatic melting point apparatus incorporating a video camera and digital image processor for automatic melt determination (with manual result override) of up to 3 samples simultaneously. The display has a 7", high definition colour readout which allows real-time viewing of the melt. The video created is automatically saved as an AVI file that can be reviewed later (by accessing the on-board, 300-result memory), or output via USB to the users' PC or flash drive. The display also incorporates touch screen operation with user prompts in English or French languages. With 'Plateau facility' that allows an adjustable ramp rate near the melt temperature. The housing also incorporates a tube cutter to score/cut capillary tubes as required and storage tray. The SMP50 also conforms to Pharmacopeia and GLP requirements.

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| Model | SMP50 |
| Range | Ambient to 400°C (°F, °k selectable) |
| Resolution | 0.1°C |
| Ramp rate | 0.1 to 20°C in 0.1°C increments |
| Memory | 300 results with video (built-in) |
| Cooldown period | 350°C to 50°C in 12 minutes |
| Heat-up period | 50°C to 350°C in 6 minutes |
| Display | 7" colour HD touchscreen |
| Oven control | Closed loop PID |
| Temperature sensor | Pt1000 |
| Output port | USB |
| Capillary tubes | Up to 3, 2 to 3mm i.d. x 50/100mm long |
| Overall W x D x H | 300 x 360 x 164mm |
| Weight | 4.6 kg |

As described. Supplied with calibration certificate and 100 melting point tubes. For 230V 50/60Hz single phase supplies.

MG180-15 SMP50

MG180-85 Accessory printer with rechargeable battery and USB cable for MG180-15, requires a 100-240V 50/60Hz a.c. supply.

Melting point tubes - see *MG140-series*

Melting Point Apparatus Stuart Model SMP11

A simple, manual model primarily for education.

- ◆ Maximum temperature 250°C
- ◆ Horizontal thermometer, filled with low-toxic spirit
- ◆ LED-illuminated magnifier
- ◆ Accepts up to 3 sample tubes

Melting Point Apparatus, SMP11

Horizontally mounted, low-toxic spirit filled thermometer. Maximum temperature 250°C. With LED-illuminated magnifier which is removable for cleaning. Up to 3 sample tubes can be accommodated. Overall 370 x 140 x 110mm W x D x H. Weight 1.7kg. For 230V 50Hz single phase supplies, 50W. Supplied with thermometer and 100 melting point tubes, open both ends.

MG175-20 SMP11

Kofler Hot bench

Enables simple, rapid, melting point determinations from +50°C to +260°C. The substance is scattered across a heated surface, so additionally eutectic temperatures, behaviour of water of crystallisation, dissociation and volatility can be observed, leading to faster identification of organic compounds. With stainless steel plate 360 x 40mm L x W in which a linear temperature gradient is produced. A temperature scale with sliding pointer enables the temperature to be read at any point. The pointer can be adjusted to increase accuracy near the region of interest using calibration substances of known melting point. For 230V 50Hz single phase supplies, 100W.

MG200-15 Kofler hot bench

Test and Calibration Set for Kofler Hot Bench

Comprising a set of eight substances (approximately 2g each) with melting points as follows:

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|----------------------|---|
| Stearic acid: 69.7°C | Adipic acid: 150.6°C |
| Benzil: 94.8°C | Benzanilide: 161.6°C |
| Acetanilide: 113.9°C | 2-Cyanoguanidine (Dicyandiamide): 209.4°C |
| Benzoin: 134.8°C | Saccharin: 226.5°C |

MG202-05 Test and calibration set for MG200-15



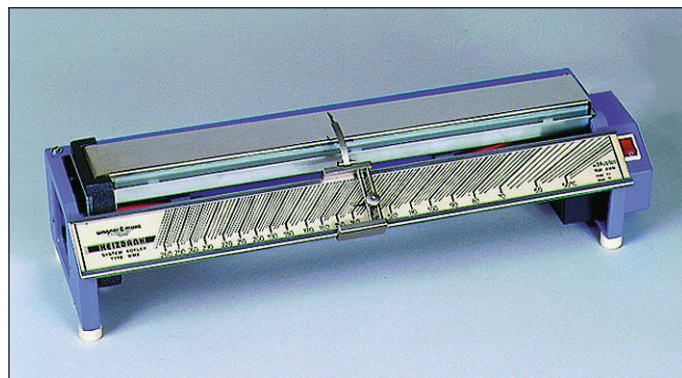
MG180-85



MG180-15 in use



MG175-20



MG200-15