



Melting Point Apparatus CMPA1/CMPA2

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Catalogue



LCD display is intuitive



Capillary and cover-glass method



Temperature measuring probe



Up to 3 points temperature correction



Optional accessories

Temperature stability water bath, printer,...

Melting Point Apparatus – COLO CMPA1 / CMPA2

Determining the melting point is a core technique for identifying organic crystalline substances and assessing purity. A precisely controlled temperature ramp is applied while the sample is observed under magnification to capture the onset of softening and complete liquefaction. Consistent ramp rates, fine temperature resolution, and clear visual observation reduce operator uncertainty and improve repeatability.

General Technical Characteristics

- Binocular microscopy for visual observation (40×–100×)
- Capillary + cover-glass method; single capillary per run
- Digital temperature control; 0.1 °C resolution
- Programmable ramp rates: 1 / 3 / 5 / 10 °C/min + full speed
- Accuracy: ± 0.8 °C (<200 °C); ± 1 °C (≥ 200 °C); reproducibility: 0.5 °C @ 1 °C/min
- Approx. heat/cool time: $\approx 8/8$ min (50 $\rightarrow$ 320 °C)
- Interfaces: USB (PC app) and RS232 (printer) for reports
- 4.3" LCD and numeric keypad for fast method setup

Specification	COLO CMPA1	COLO CMPA2
SKU	PRO6270	PRO6271
Temperature range	Ambient ~ 320 °C	Ambient ~ 400 °C
Minimum resolution	0.1 °C	0.1 °C
Accuracy	±0.8 °C (<200 °C); ±1 °C (≥200 °C)	±0.8 °C (<200 °C); ±1 °C (≥200 °C)
Reproducibility	0.5 °C (at 1 °C/min)	0.5 °C (at 1 °C/min)
Heating ramp rates	1 / 3 / 5 / 10 °C/min + full speed	1 / 3 / 5 / 10 °C/min + full speed
Heat/Cool time	≈ 8 min / 8 min (50 → 320 °C)	≈ 8 min / 8 min (50 → 320 °C)
Observation	Binocular microscope, 40×–100×	Binocular microscope, 40×–100×
Capillaries per run	1	1
Capillary size	Ø 1.4 mm (OD) / Ø 1.0 mm (ID), 90 mm	Ø 1.4 mm (OD) / Ø 1.0 mm (ID), 90 mm
Fill height	3–5 mm	3–5 mm
Cover glass	18 × 18 × 0.17 mm	18 × 18 × 0.17 mm
Display	4.3" LCD	4.3" LCD
Interfaces	USB (PC) + RS232 (printer)	USB (PC) + RS232 (printer)
Reports	Print or save via PC app	Print or save via PC app
Power	110/220 V AC ±10%, 50/60 Hz, 100 W	110/220 V AC ±10%, 50/60 Hz, 100 W
Dimensions (L×W×H)	400 × 245 × 550 mm (adjustable height)	400 × 245 × 550 mm (adjustable height)
Weight	≈ 8 kg	≈ 8 kg
Brand	COLO	COLO



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