

Приборы для определения точки плавления MP-250, MP-800, MP-200, MP-400, принтеры, термометры, капиллярные трубки, пробки, ключи калибровки

Технические характеристики

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MP-800 Series Automatic Digital Melting Point Apparatus

- Advanced digital image processing produces a high-resolution video of the sample melt
- Get up and running quickly—intuitive setup and navigation on large color touchscreen
- Use the rapid ramp mode to take a fast scan of the full temperature range
- 8 GB on-board memory storage
- Conforms to USP and GLP requirements
- 3-year warranty





MP-800 Series Automatic Digital Melting Point Apparatus

Advanced features with a familiar interface make the MP-800 the ideal melting point apparatus for your pharmaceutical, raw material, and quality control applications. Digital camera technology is used to produce a high-resolution video of the sample melt; this allows the intelligent melt algorithm to identify the smallest of changes within the sample, accurately and reliably determining the melting point of up to three samples simultaneously. Video image of melt provides proof of measurement — observe in real-time or post melt. Download videos and reports to a USB flash drive or use the optional printer for direct printing of results. Stored video results are stamped with melt temperature. Unit features a capillary storage compartment with glass cutter and three slots to hold prepared tubes. Includes a pack of 100 glass capillary tubes (sealed at one end).

Specifications

Model no.	MP-800
Number of samples	3 simultaneously
Temperature range	Ambient to 400 °C
Temperature resolution	0.1 °C
Display	17.8 cm (7 in) touch-screen display, with date/time and choice of C/F units
Ramp rates	0.1 to 20 C/min 0.1 °C increments
Temperature sensor	PT1000 RTD
Cool down time (350 to 50 °C)	12 mins
Heat up time (50 to 350 °C)	6 mins
Oven control	Closed loop PID
Memory	8 GB (approx. 300 results with video)
Data transfer	USB Flash drive
Languages	English / French
Dimensions (W x H x D)	30 x 16.4 x 36 cm (11.8 x 6.4 x 14.1 in)
Warranty	3 years

Ordering Information

Description	Item no.	Series no.	Model no.	Legacy SKU
Automatic melting point apparatus, 120/230 VAC, 50/60 Hz	03013-02	MP-800	MP-800D	SMP50
Automatic melting point apparatus, 120/230 VAC, 50/60 Hz, with IQ/OQ documentation	03013-03	MP-800	MP-800D	SMP50/IQOQ

Accessories

Description	Item no.	Series no.	Model no.	Legacy SKU
Printer with US, UK, and EU power cords	83056-79	N/A	N/A	SMP50/PRINTER
Calibration standards kit (caffeine, vanillin and sulphanilamide) with purity certificates	99967-49	N/A	N/A	N/A
Glass capillary tubes, open both ends, 100/pk	03013-63	N/A	N/A	SMP1/4
Glass capillary tubes, sealed on one end, 100/pk	03013-64	N/A	N/A	SMP10/1
Glass capillary tubes, sealed both ends, 100/pk	03013-65	N/A	N/A	SMP2/1

MP-400 Series Advanced Digital Melting Point Apparatus

- Intuitive menu interface guides you through the melting process with comprehensive directions
- Three methods can be stored for repeated use and the plateau temperature and heating rate are fully programmable
- Record up to seven temperature readings for each sample with date-and-time stamp
- Adjust the viewing head two ways for optimal viewing and comfort—move forwards/backwards as well as tilt up to 126°
- Useful features such as slots for storing pre-prepared samples and a storage drawer to hold capillary tubes
- 3-year warranty





MP-400 Series Advanced Digital Melting Point Apparatus

Designed for fast accurate determination of melting points, the MP-400 lets you test three samples simultaneously and features a maximum temperature of 400 °C, a variable ramp, and three programmable methods for repeated use. Large backlit LCD shows programming information, stored results, current temperatures, and time. The tubes are illuminated with bright white LED's to give the clearest view of the samples during the melt. The block has been designed for easy access for cleaning, the front of the head is fully removable to allow full access to the micro furnace.

Up to seven date-and-time stamped results per tube can be stored in memory. Use the optional printer for a hard copy record of the melt results. Unit includes 100 glass capillary tubes, sealed on one end.

Specifications

Model no.	MP-400D
Number of samples	3
Temperature range	Ambient to 400 °C
Temperature resolution	0.1 °C
Display	Multiline alphanumeric LCD, backlit, date/time
Ramp rate	0.5 to 10 °C per min (0.1 °C increments)
Temperature sensor	PT1000 RTD
Memory	7 results per tube
Accessory printer	Yes
Date/time display	Yes
Cool down time (350 to 50 °C)	12 mins
Heat up time (50 to 350 °C)	6 mins
Onboard capillary storage	Yes
In-built glass cutter	Yes
Displayed language selection	English, German, French, Italian, Spanish
Dimensions (W x H x D)	32.5 x 17.0 x 20.0 cm (12.8 x 6.7 x 7.9 in)
Warranty	3 years

Ordering Information

Description	Item no.	Series no.	Model no.	Legacy SKU
Advanced digital melting point apparatus, 115/230 VAC, 50/60 Hz	03011-49	MP-400	MP-400D	SMP30

Accessories

Description	Item no.	Series no.	Model no.	Legacy SKU
Printer, RS-232 interface, universal AC power adapter, 3-year warranty	03012-99	N/A	N/A	SMP30/1
Glass capillary tubes, open both ends, 100/pk	03013-63	N/A	N/A	SMP1/4
Glass capillary tubes, sealed on one end, 100/pk	03013-64	N/A	N/A	SMP10/1
Glass capillary tubes, sealed both ends, 100/pk	03013-65	N/A	N/A	SMP2/1



MP-200 Series Digital Melting Point Apparatus

- Save time by setting a plateau temperature for initial warm-up
- Easily view the melt via magnifying lens with built-in illumination
- Be more productive—test two samples simultaneously
- Extendable back feet for optimal viewing angle
- Full access to the block allows easy cleaning and maintenance
- 3-year warranty





MP-200 Series

Digital Melting Point Apparatus

The MP-200D and MP-200D-HR have been designed with safety and ease of operation in mind making it ideal for use in education. The temperature is selected, measured and displayed digitally, ensuring accuracy and negating the need for a thermometer. The MP-200D displays temperature to 1 degree resolution while the more advanced MP-200D-HR has a 0.1 degree resolution as well as a variable ramp rate and hold key so that the exact melt temperature can be recorded. Each unit is supplied with a pack of 100 glass capillary tubes sealed on one end.

Specifications

Model no.	MP-200D	MP-200D-HR
Number of samples	2	2
Temperature range	Ambient to 300 °C	Ambient to 300 °C
Temperature resolution	1 °C	0.1 °C
Display	Three digit LED	Four digit LED
Ramp rate	20 °C per minute to plateau; fixed at 2 °C per minute to melt	20 °C per minute to plateau; adjustable from 1 to 10 °C per minute to melt
Temperature sensor	PT100 RTD	PT100 RTD
Memory	No	No
Accessory printer	No	No
Date/time display	No	No
Cool down time (300 to 50 °C)	40 mins	40 mins
Heat up time (50 to 350 °C)	15 mins	15 mins
Onboard capillary storage	No	No
In-built glass cutter	No	No
Instruction label languages	English, German, French, Spanish	English, German, French, Spanish
Dimensions (W x H x D)	16 x 17 x 22 cm (6.3 x 6.7 x 8.7 in)	16 x 17 x 22 cm (6.3 x 6.7 x 8.7 in)
Warranty	3 years	3 years

Ordering Information

Description	Item no.	Series no.	Model no.	Legacy SKU
Digital melting point apparatus, 240 VAC, 50 Hz	03011-41	MP-200	MP-200D	SMP10
Digital melting point apparatus, 120 VAC, 60 Hz	03011-40	MP-200	MP-200D-120	SMP10/120V/60
Digital melting point apparatus, high resolution, 240 VAC, 50 Hz	03011-47	MP-200	MP-200D-HR	SMP20
Digital melting point apparatus, high resolution, 120 VAC, 60 Hz	03011-45	MP-200	MP-200D-HR-120	SMP20/120V/60

Accessories

Description	Item no.	Series no.	Model no.	Legacy SKU
Glass capillary tubes, open both ends, 100/pk	03013-63	N/A	N/A	SMP1/4
Glass capillary tubes, sealed on one end, 100/pk	03013-64	N/A	N/A	SMP10/1
Glass capillary tubes, sealed both ends, 100/pk	03013-65	N/A	N/A	SMP2/1



MP-250 Series Digital Melting Point Apparatus

- Advanced 32-bit microcontroller and step-through menu let you accurately control oven temperature and ramp rate
- View up to three samples simultaneously for greater efficiency
- Rotating viewing head ensures each user can analyze samples clearly
- Integral light and 8x magnifying lens enhance sample observation
- Tube guide removal for cleaning and use of cold finger
- 13-key membrane keypad
- 3-year warranty



MP-250 Series

Digital Melting Point Apparatus

The MP-250 series digital melting point apparatus offers an easy way to measure the melting points of samples without sacrificing accuracy. It is ideal for multiple users, being ergonomically designed to ensure comfortable viewing for everyone, with a height-adjustable extension arm and a viewing head that may be rotated to suit each user. As a visual aid, the viewing head holds a viewing magnifier that offers 8x magnification. As a further convenience, the extension arm is completely collapsible and can be neatly folded away into the unit, so that the unit can be stored flat to save space.

The MP-250D and MP-250D-F models feature two fixed ramp rates: a quick rate to define the approximate melt temperature of your sample and a slower rate to accurately attain the true melt temperature of your chemical sample. The MP-250D-P and MP-250D-PR models offer adjustable ramp rates, internal batch memory capacity, and RS-232 interface and USB ports for easy data transfer to a printer.

Performance

- Membrane keypad with simple menus for intuitive use
- Push button controls are conveniently located to ensure that temperatures can be recorded without looking away from the sample
- Digital microprocessor provides fast warm-up and accurate temperature control
- Samples in three capillary tubes may be viewed simultaneously.

Safety and convenience

- Three audible beeps indicate that the oven temperature is stable and ready for sample
- Adjustable arm with viewing magnifier can be folded away into the unit
- Adjustable object lens for sharp focus
- Rotating viewing head and safety eye piece to protect against glare and hot zone
- Integral light and wide angle 8x viewing magnifier enhance sample observation, so that all three samples can be viewed without eye strain
- For optimal performance, units can be calibrated using a calibration key (order separately) and certified calibration chemicals

Specifications

Model no.	MP-250D	MP-250D-F	MP-250D-P	MP250D-PR
Temperature range	1 to 405 °C			
Temperature resolution	1.0 °C	0.1 °C		
Temperature accuracy	±1 °C of set temperature	0.5°C @ 20 °C linearly to ±1.0 °C @ 350 °C		
Ramp rate	Select either 1.0 °C/min or 10.0 °C/min		Adjustable from 0.2 to 10.0 °C/min in increments of 0.1 °C/min	
Ceiling temperature setting	None	From 5 °C above set temperature to 405 °C in increments of 1°C		
Display	12 x 2 backlit matrix LCD			
Date and time settings	None		Yes	
Melt memory capacity	4 x 1			3 x 2
Batch memory capacity	None		1000 melts	500 melts
Temperature control sensor	PT100 RTD			
Oven	Closed loop PID control; 3 white LEDs for illumination			
Dimensions (W x H x D)	20 x 8.5 closed / 45 open x 35 cm (7.9 x 3.3 closed / 17.7 open x 13.8 in)			
Power	100 to 240 VAC, 50/60 Hz, 45 W			

Features

Model no.	MP-250D	MP-250D-F	MP-250D-P	MP250D-PR
32-bit processor	●	●	●	●
Accepts 3 capillary tubes up to 2 mm OD	●	●	●	●
Storage area for pack of capillary tubes	●	●	●	●
Tube guide removal for cleaning and use of cold finger	●	●	●	●
Removable 40 mm dia lens (8x magnification) with adjustable focus	●	●	●	●
13-key membrane keypad	●	●	●	●
Sample preservation temperature ceiling	—	●	●	●
Date and time settings	—	—	●	●
PC output facility	—	—	●	●
USB output to flash drive	—	—	●	●
Serial port (RS-232) to printer	—	—	●	●
Pack of capillary tubes included	●	●	●	●
3-year warranty	●	●	●	●

Ordering Information

Description	Item no.	Series no.	Model no.	Legacy SKU
Digital melting point apparatus, two fixed ramp rates, 1.0 °C resolution	03010-15	MP-250	MP-250D	1101D
Digital melting point apparatus, two fixed ramp rates, 0.1 °C resolution	03010-51	MP-250	MP-250D-F	IA9100
Digital melting point apparatus, programmable ramp rate	03010-41	MP-250	MP-250D-P	IA9200
Digital melting point apparatus, programmable ramp rate, beginning/ending recordings for pharmacopeia requirements	03010-59	MP-250	MP-250D-PR	IA9300
Same as 03010-59 with IQ/OQ documentation	03010-64	MP-250	MP-250D-PR	IA9300/IQOQ

Accessories

Description	Item no.	Series no.	Model no.	Legacy SKU
Cold finger	03010-63	N/A	N/A	AZ9001
Calibration key	03010-65	N/A	N/A	AZ9253
Glass capillary tubes, 1.5 mm OD, 1000/pk	03010-67	N/A	N/A	AT4042
Glass capillary tubes, 2.0 mm OD, 1000/pk	03010-68	N/A	N/A	AT4043
Printer with internal battery pack/charger and serial connecting cable	03010-69	N/A	N/A	PR2000S
Paper roll (2) and ribbon for printer	03010-62	N/A	N/A	AT4044



Cole-Parmer® Accessories for Cole-Parmer® MP-100, MP-200, MP-400, and MP-800 Series Melting Point Apparatuses



Accessories for your melting point apparatus

item	Compatible With	Description
EW-03012-99	Melting point apparatus 03011-49 and colony counters 14212-04 and 14212-06	Printer for melting point apparatus 03011-49 and colony counters 14212-04 and 14212-06
EW-03013-62	Analog melting point apparatus 03013-60, 03013-61	Spirit-Filled Thermometer, 50 to 250 °C

item	Compatible With	Description
 EW-03013-63	03011-40, 03011-41, 03011-45, 03011-47, 03011-49, 03013-60, 03013-61	Glass Capillary Tubes, Open Both Ends; 100/PK
 EW-03013-64	03011-40, 03011-41, 03011-45, 03011-47, 03011-49, 03013-02, 03013-03, 03013-60, 03013-61	Glass Capillary Tubes, Open One End; 100/PK
 EW-03013-65	03011-40, 03011-41, 03011-45, 03011-47, 03011-49, 03013-02, 03013-03, 03013-60, 03013-61	Glass Capillary Tubes, Closed at Both Ends; 100/PK
 EW-03013-66	03013-60, 03013-61	Brass Cooling Plug for Analog Melting Point Apparatus

item	Compatible With	Description
 EW-99967-49	03013-02 and 03013-03	Melting Point Calibration Kit

Cole-Parmer® Accessories for Cole-Parmer® MP-250D Series Digital Melting Point Apparatus



Accessories compatible with digital melting point apparatus.

item	Compatible With	Description
 EW-03010-63	Melting point apparatus 03010-41, 03010-51, 03010-59, and 03010-64	Digital Melting Point Apparatus Cold Finger
 EW-03010-65	Melting point apparatus 03010-15, 03010-41, 03010-51, 03010-59, and 03010-64	Melting Point Apparatus Calibration Key

item	Compatible With	Description
EW-03010-67	Melting point apparatus 03010-15, 03010-41, 03010-51, 03010-59, and 03010-64	Capillary Tubes; 1.5 mm OD; 1,000/PK
EW-03010-68	Melting point apparatus 03010-15, 03010-41, 03010-51, 03010-59, and 03010-64	Capillary Tubes; 2.0 mm OD; 1,000/PK
EW-03010-69	Melting point apparatus 03010-41, 03010-51, 03010-59, and 03010-64	Serial Printer

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