



Digital Mel-Temp® 3.0



Model 1401

Product Specifications

- Used for recording beginning and ending points of each of three samples.
- Designed for determinations of melting points using glass capillary tubes.
- Space saving design; occupies only 4.6" x 6.1" (11.7 x 15.5 cm) of bench space.
- Easy to follow instructions are printed directly on the front of the unit.
- Sample observation is enhanced by an integrated light and precision 6X lens.
- Safety eye piece protects your eyes from contact with the capillary tubes.
- Digital microprocessor with 0.1°C resolution provides fast warm up, accurate temperature control and eliminates the need for a mercury thermometer.
- Dual digital LED's display actual and set temperature simultaneously.

Compact and Low Cost!

- Compact size saves bench space
 - Audible-visual alarm indicates when oven temperature is stable
 - Selectable ramp rates
 - High speed fan cools unit quickly
- The temperature display is easily calibrated without tools, using a melting point standard.
 - Temperature data can be temporarily stored and recalled on the LED display.
 - Heating chamber consists of aluminum heating block which avoids the hazards and mess associated with oil baths.
 - Conforms to U.S. Pharmacopeia requirements.
 - Includes 1 vial of 100 capillaries.

Operation

- Programmable ramp rates from 0.1 to 10°C/min in 0.1°C increments.
- An audio-visual alarm indicates when oven temperature is stable. User may then insert charged capillaries and press the ramp key to begin testing at the predetermined heating rate.
- A distinct "beep" confirms that the temperature has been stored and allows uninterrupted sample observation.
- Stored temperatures may be recalled and manually recorded.
- High-speed fan quickly cools the unit back to the selected start temperature.

PRODUCT SPECIFICATIONS

Temperature Range	Ambient to 400°C.	Reproducibility	±0.2°C
Temperature Accuracy	±0.5° from ambient to 250°C. ±1°C from 250-400°C with factory calibration. (User may calibrate to 0.1°C accuracy at a specific temperature using a melting point standard.)	Heat-Up Time	Ambient to 250°C in 5 minutes
Temperature Resolution	±0.1°C.	Cool-Down time (with built-in cooling fan)	400°to 100°C in 3 minutes
Ramping Rate	Selectable from 0.1°C/min.-10.0°C/ min. in 0.1°C/min. increment	Melting Point Capillaries	1.5-1.85 mm outside diameter x 100 mm long
		Power Requirements	200 watts, 100-120 VAC or 200 watts, 210-250 VAC

ORDERING INFORMATION

Model #	Volts	Overall Dimension Inches (cm)			Shipping Weight Lb. (kg)	US List Price
		W	H	D		
1401 ¹	120	4.6 (11.7)	12.3 (31)	6.1 (15.5)	8 (3.6)	\$2,924.00
1402 ²	230	4.6 (11.7)	12.3 (31)	6.1 (15.5)	8 (3.6)	\$2,924.00

¹ CSA

² CE marked

ACCESSORIES

Model #	Description	US List Price
1403	Capillaries, Box of 100	\$23.20
1008	Mel-Temp Standards	\$515.20