# **Melting Point Apparatus**

EZ-Melt — Automated melting point system



- Fully automated operation
- · Simultaneous analysis of 3 samples
- PID-controlled temperature ramping
- Digital image processing technology
- · Pharmacopeia and GLP compliant

• EZ-Melt (MPA120) ... \$2495 (U.S. list)

# **EZ-Melt**

EZ-Melt is a fully automated melting point apparatus that determines the melting points of chemical substances. It's fast, accurate, and very easy to use. You simply enter the start temperature, stop temperature, ramp rate and press *Start*. It's that simple!

## **Absolute Value**

EZ-Melt is priced far below any other automated system, as well as most manual systems. It provides the absolute best value of any commercially available melting point apparatus.

# **Automated Operation**

Unlike time-consuming manual melting point systems, EZ-Melt is specifically designed for unattended (automated) operation. During a melt, a closed-loop PID algorithm controls temperature ramping, and a built-in digital camera continuously monitors your samples as they melt. Using digital image processing technology, images are analyzed and the melting points (clear point and onset of melt) are determined. Results are read on the large 4-digit LED display.

## **Temperature Tagging**

Samples can be viewed at any time using the built-in magnification lens. During a measurement, you can flag relevant events by pressing the *Left, Center or Right* frontpanel buttons. Up to four individual temperatures can be tagged for each sample.



## **Precise Temperature Control**

The small, aluminum oven design, along with microprocessorcontrolled temperature ramping, allows fast and repeatable



warm-up and cool-down cycling. Ramp rates from 0.1 °C/min. to 20 °C/min. (1-2-5 sequence) provide the flexibility needed for virtually any melt.

#### **Accurate Results**

EZ-Melt uses a platinum RTD sensor to make temperature measurements to 400 °C with 0.1 °C resolution. It is easily calibrated in the lab using certified reference standards, and complies with modern Pharmacopeia protocols.



# **EZ-Melt Specifications**

## Operation

Start temp. range (Ambient +10 °C) to 396 °C,

0°C minimum set point

Stop temp. range (Start temperature +4 °C) to 400 °C

Temp. resolution 0.1 °C

Ramp rate 0.1, 0.2, 0.5, 1, 2, 5, 10 or 20 °C per min.

Heat-up time <10 minutes (50 °C to 350 °C) Cool-down time <10 minutes (350 °C to 50 °C)

Temperature accuracy  $\pm 0.3$  °C (up to 100 °C)

 $\pm 0.5\,^{\circ}\text{C}$  (up to  $250\,^{\circ}\text{C}$ )  $\pm 0.8\,^{\circ}\text{C}$  (up to  $400\,^{\circ}\text{C}$ )

Reproducibility 0.2 °C Temperature sensor Pt RTD

Oven control Microprocessor-controlled

closed-loop PID

Automated operation Onset point and clear point

Manual operation Store up to four manual temperature

recordings per capillary

User calibration Single temperature offset,

0.1 °C resolution

#### General

Display 4-digit LED display

Capillaries

Dimensions 1.4 mm to 2.0 mm outside diameter,

100 mm length

Capacity Up to 3 tubes simultaneously

Fill height 2 mm to 3 mm

Power 90 to 264 VAC, 47 to 63 Hz, 125 W Operating temperature 0 °C to 40 °C, non-condensing

Weight 9 lbs.

Dimensions  $7.5" \times 10" \times 8.5"$  (WHD)

Warranty One year parts and labor on defects

in materials and workmanship

## **Ordering Information**

EZ-Melt Melting point apparatus \$2495 O100MPC Capillaries (300 pcs.) \$150 O100MPS Melting point standards \$395

