



Automatic Melting Point Apparatus MP470



## Guide Line

# Melting Point Apparatus

### 1. Which field does Melting Point Apparatus mainly used in?

In general, the melting point of substance is a common physical property test, is the basic means to identify the physical nature, also is one of the important methods to measure purity. Therefore, Melting Point Apparatus occupy an important position in chemical industry and medicine research. It is a necessary instrument for production of medicines, spices, dyes and other organic crystal substances.

### 2. Which temperature sensor does Melting Point Apparatus adopt?

Hanon MP series Melting Point Apparatus temperature system adopts linearly calibrated platinum resistor as detecting element. The platinum resistor has the technical characteristics of short response time and long-time high stability, which let the experiment process more efficient and accurate.

### 3. Among the numerous parameters of Melting Point Apparatus, which one is more crucial?

Accuracy, Repeatability, Measuring range

The three parameters basically clear the main use scope and performance of the instrument. Measuring range must be able to meet the requirement, accuracy and repeatability is the higher the better.

### 4. What facilitation advanced true-color VGA touch screen can provide us during use?

Advanced true-color VGA touch screen offering user the comfortable sense of manipulation is unprecedented, will be more closer to the user's habit and more convenient for the user to manipulate instrument freely.

### 5. How to choose a Melting Point Apparatus?

First user should choose the Melting Point Apparatus for suitable sample testing condition, such as, if the sample in powder form user can choose capillary testing, then

decide to choose silicone method visual Melting Point Apparatus or automatic Melting Point Apparatus according to the sample whether is transparent after melted and whether have any requirements on initial melting and melting range. If the sample in flake or block form user should choose micro Melting Point Apparatus. Second, according to result accuracy requirement users decide to choose Melting Point Apparatus which belongs to what grade. Basically each Melting Point Apparatus can clearly indicate the accuracy, repeatability and measuring range.

### 6. Generally how many samples can be tested by automatic Melting Point Apparatus every day?

Basically every sample testing time is around 5-7 minutes. If uses test 10 samples per hour, 1 day 8 hours can test 80 samples. But because the instrument is a fully automatic measurement, User can have a lot of time to deal with other work during testing melting point of substance, to improve work efficiency.

### 7. When we use the Melting Point Apparatus used for a long time, should we calibrate it? How to calibrate?

It is recommended that Melting Point Apparatus recalibrate after using for year. Thereafter basically it need calibrate every year. If User need to calibrate it, we should sent it to the local Bureau of Technical Supervision which can issue a report according to verification result, or we buy the standard sample for calibration by oneself.

### 8. What are the main consumables of instrument?

Only one: capillary. Users can purchase from our company or go to market to buy directly if need.

But on the present market the capillary standard are different, some are two heads opening, some are too big or too small. So we suggest user purchase directly from our company, because the improper dimension of the capillary can caused unnecessary loss.



### Friendly user interface

### Dual color display

Innovative double true-color VGA touch screen is easy for operation and observation



### Easy for observation

Real time video displayed in 7 x magnification, it's easy to watch the melting procedure.

Completely in line with pharmacopeia and GLP requirements.

## MP420/MP430 MP450/MP470 Auto Melting Point Apparatus

Hanon MP420/MP430/MP450/470 Automatic Melting Point Apparatus perfectly integrate video technology into melting point measuring. It not only provides users with reliable melting point test result, but also intuitively displays temperature curve and real-time video image, and achieves the function of save, replay the video etc. It provides better help for users to observe melting process of sample.

The instrument can be widely used in the chemical industry and pharmaceutical research. It is the essential equipment for production of drugs, spices, dyes, and measurement of other organic crystal substances.



### Characteristic

- Automatic Video Melting Point Apparatus perfectly integrate video technology into melting point measuring.
- Vast amounts of storage space, can achieve 300 minutes of continuous shooting or nearly 10000 photos storage.
- 0.1℃--20.0℃ linear temperature rise design is satisfactory for varied temperature rise options.
- Store up 80 sets of customers experimental method, 40 sets atlas and test data.
- Data can be printed via USB and RS232.

### Technical data:

	MP420	MP430	MP450	MP470
Temperature range	room temperature--300°	room temperature--350°	room temperature--400°	room temperature--400°
temperature resolution	0.1℃			
repeatability	0.2℃ at heating rate of 0.2℃/min			
temperature accuracy	±0.4℃ (<200℃) ±0.7℃ (<300℃) heating rate			
temperature gradients	0.1℃--20℃			
standard capillary size	I.D. 1.0mm, O.D. 1.4mm			
display	TFT5.6" Touch screen + TFT3.5" color screen			
Interface	USB, SD card, RS232, Internet			
Video output	SD Card	●	●	●
Magnification	7	●	●	●
Capacity per batch	4pc./batch	●	●	●
Operator account	-	4	8	15
Camera & Video	Camera	Camera & Video	Camera & Video	Camera & Video
video reply	-	Yes	Yes	Yes
Curve storage	-	-	10 groups	40 groups
Result storage	50 groups	200 groups	600 groups	1000 groups
SD card capacity	2G	4G	8G	16G
Method storage	-	-	30	80
Power supply	220V±10% 50Hz	●	●	●
Power	120W	●	●	●
Dimension	305mm×220mm×230mm	●	●	●