Melting Point Apparatus

Melting point instrument has an important position in chemical industry and pharmaceutical research, and is the production of food, drugs, spices, dyes and other organic crystal substances

The Alpol-M90 fully automatic melting point instrument combines high-precision temperature control technology and high-definition video camera technology. It not only provides users with accurate, stable, and reliable test results but also offers an efficient and convenient testing experience. The high-definition video allows for a clear and easy view of the entire sample melting process. Automatic detection and real-time spectrum display help users accurately measure the sample's melting point and melting range



Alpol-M90 Fully Automatic Video Melting Point Instrument

Innovation Points to Improve Efficiency

- Automation integration, AI automatically set parameters
- Four samples were processed at a time
- HD video instead of traditional microscope vision
- Fully record melting range, initial melting, final melting
- Data can be printed directly from the printer
- 21CFR Part 11, audit tracing, pharmacopoeia and electronic signature

The Key Technical Indexes

Temperature range	Room temperature-420℃
Detection method	Automatic (manual)
Processing capacity	4 samples / batch (four samples can be made simultaneously)
Temperature resolution	0.01℃
Linear heating rate error	±5%
Heating rate	0.1℃ --20℃ (200 levels, no pole adjustable)
Temperature control method	PID precise temperature control furnace body fully closed design
Program segment temperature control	Up to 10 programmable gradient temperature control
Spectrum	Any zoom is available to view any detail of the spectrum
Accuracy (JJG 701 standard 0.2 level, provide measurement report)	±0.2℃ (≤200℃) / ±0.4℃ (>200℃)
Repeatability	Repetitive ± 0.1℃ at 0.1℃ / Min
Magnification	Standard with 9 times other multiples can be set
Display mode	10.4-inch FTF color touch color screen
Data storage	128G
Atlas preservation	1000 groups
Experimental method	1000 sets
Experimental method locked	Yes
User management	There are / four levels of permission management
Audit trail	Yes
Electronic signature	Yes
Custom method library	Yes
Export file verification advanced protection MD5	Yes
Export in multiple file formats	PDF and Excel
Data interface	USB RS232 SD Wi-Fi, RJ45, U disk (You can configure the upper computer software to upload test data)
Scanner	Supports scanning the QR code of the scanner to directly input information
Capillary size	Outer diameter: φ 1.3mm, inner diameter:: φ 1.1mm
Packing size	430 * 320 * 370mm
Power supply	110-230V 50 / 60HZ 120W
Gross weight	6.50kg