

Basic Set: Melting Point M-560 – Manual melting point determination for universities and research laboratories

The attractively priced Melting Point M-560 for the manual determination of melting and boiling points is designed for all laboratories with a moderate requirement of sample processing in a non-regulated environment.



Delivery content

The Basic Set consists of the instrument and accessories for the installation, reliable calibration and convenient determination of the first 100 melting points.

- Melting Point M-560 Instrument
- 100 Melting Point Capillaries
- 10 Boiling Point Capillaries
- 10 Boiling Point Tubes
- Calibration Set M-560/M-565 for the first installation
- Packing wire for samples with a waxy consistence
- Sample Holder for the confusion free preparation of 12 melting point and 4 boiling point samples



Increase your efficiency of the Melting Point M-560 and M-565



Mini Keyboard

For the convenient, straightforward input of parameters.



Serial Printer

For documenting the results of calibration, melting and boiling point determinations.



Sample Loader M-569

Instrument for the homogenous loading of samples into Buchi melting point capillaries.

Professional Set: Melting Point M-565 and Sample Loader M-569 – Automatic melting point determination for higher sample throughputs

The video camera equipped Melting Point M-565 for the automatic determination of melting and boiling points is designed for true, professional quality control. When used in combination with the Sample Loader M-569, determinations are achieved with unrivalled reproducibility. Optional, comprehensive IQ/OQ documentation is available in five different languages for customers working in a regulated environment. Intuitive PC software is also available for the handling of large amounts of user, method and result data generated.

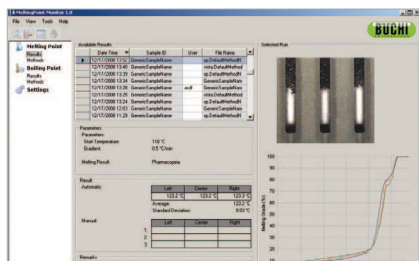


Delivery content

The Professional Set consists of the two instruments and a wide range of accessories for the installation, reliable calibration and convenient determination of the first 100 melting points.

- Melting Point M-565 Instrument
- Sample Loader M-569 Instrument
- 100 Melting Point Capillaries
- 10 Boiling Point Capillaries
- 10 Boiling Point Tubes
- Calibration Set M-560/M-565 for the first installation
- Packing wire for samples with a waxy consistence
- Sample Holder for the confusion free preparation of 12 melting point and 4 boiling point samples

Exclusive Accessory of the Melting Point M-565



MeltingPoint Monitor Software

Software for the easy and convenient management of user, method and result data.



IQ/OQ Documentation

Installation Qualification needed for the initial installation of the Melting Point M-565, either after shipment or movement to a new workplace. Including Operational Qualification to guarantee the instrument meets predefined specifications.



OQ Documentation

Repeating operational qualification to guarantee that the instrument meets predefined specification.

Features of the M-560 and M-565

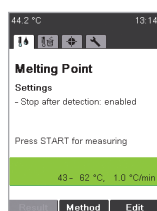
Precision lens with 2.5 times magnification for a precise determination of the samples



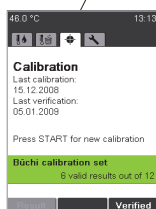
Optimised design of the heating block allows faster cooling times and therefore higher sample throughput per hour



Brilliant large colour display with a high resolution for comfortable control of the instrument



Fully menu guided, exacting calibrations when using the Buchi Calibration Standards



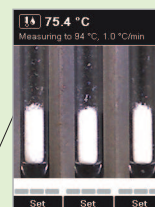
Optional Keyboard and Printer for a fast input of sample parameters and a direct, standardised output of results



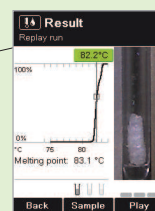
Additional Features of the M-565

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Automatic determination of melting and boiling point for a higher efficiency



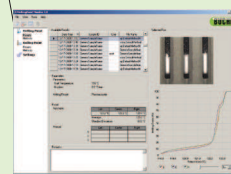
Relaxed, fatigue free observation of the phase transition on the 6x magnified colour display



Video movie of determinations allows the review of each measurement. Variable speed playback from single frame slow motion through to 100x real time



Optional IQ/OQ Documentation for customers in a regulated environment. No need to create validation documents. Available in five languages...



Optional Melting Point Monitor Software for easy and safe management of user, methods and results data

Sample Loader M-569 – World Novelty

- Unique system for the loading of melting point capillaries
- Reproducible results due to consistent, homogeneous packing quality
- Loading times substantially reduced when compared to conventional methods
- Easy and safe handling of samples and capillaries:
 - No risk of cross contaminations as with the glass tube procedure
 - No Risk of breaking capillary eliminated when compared to manual knocking method
- Compact design with a stable stand
- Three position switch for permanent operation or operation during pressing
- Invaluable when packing large numbers of capillaries
- In the delivery content of Melting Point M-565
- Optional accessory for Melting Point M-560 and previous Buchi Melting Point instruments



			
	Melting Point M-560	Melting Point M-565	Sample Loader M-569
Manual melting point determination	✓	✓	–
Manual boiling point determination	✓	✓	–
Automatic melting point determination	–	✓	–
Automatic boiling point determination	–	✓	–
Homogeneous sample loading	–	–	✓
Positions for melting capillaries	3	3	3
Positions for boiling capillaries	1	1	–
Precision magnifying lens	✓	✓	–
Magnification of lens	2.5 x	2.5 x	–
Digital camera	–	✓	–
Video function	–	✓	–
Magnification, Display	–	6 x	–
Display	Colour, TFT, 320 x 240, 3.5"		–
Determination temperature range	ambient to 400 °C		–
Temperature resolution	0.1 °C		–
Accuracy up to 100 °C	+/- 0,3 °C		–
up to 250 °C	+/- 0,5 °C		–
up to 400 °C	+/- 0,8 °C		–
Temperature gradients, °C/min	0.1, 0.2, 0.5, 1, 2, 3, 5, 10, 20		–
Heat-up time (50 °C–350 °C)	~ 4 min		–
Cool-down time (350 °C–50 °C)	~ 10 min		–
Electrical supply	100–240 V (±10%), 50–60 Hz		100–240 V
Power consumption	150 W		15 W
Contact termination	L, N, PE		L, N
Approval	CE, UL		–
Dimensions (W x H x D), mm	190 x 200 x 370		70 x 86 x 130
Weight, kg	4.5		0.5
Environmental conditions	For indoor use only		
Temperature	5–40 °C		
Altitude	up to 2000 m		
Humidity	Maximum relative humidity 80% for temperatures up to 31 °C, decreasing linearly to 50% relative humidity at 40 °C		
Overvoltage category	II		
Degree of protection	IP20		
Pollution degree	2		

System requirements	MeltingPoint Monitor Software
Processor	32-or 64-bit Processor with 1 GHz
Memory	512 MB (RAM)
Hard disk	40 GB hard disk with at least 15 GB free
Operating system	Windows XP Professional SP2 or higher Windows Vista Ultimate (32-bit version) Windows Vista Business (32-bit version)
Drive	CD ROM
Serial interface	1 x USB 2.0

