

# Melting Point Melting Range Boiling Point



## Check Melt Series .... 3 models to choose from

The Melting Point, Melting Range & Boiling point are standard parameter to check the sample purity, to identify products or to measure mixture contents. This technique is widely established as a basic characteristic of chemical compound. SPECTRALAB offers the solutions for visual determination with high accuracy.

### Check Melt - OB



- \* Uses Oil Bath
- \* Both Melting & boiling point
- \* Manual Detection
- \* Temperature range (Ambient + 5)°C to 300°C

### Check Melt - SB



- \* Uses Solid Aluminum block
- \* Both Melting & boiling point
- \* Manual Detection

### Check Melt VR



- \* Uses Solid Aluminum block
- \* Automatic Melting Point Apparatus with Video Recording
- \* Automatic Detection



#### Modes of operation

##### 1. Standardization

This mode is used for standardization of instrument for routine use. The instrument is standardized within sample range to be analysed with two or three standards

##### 2. Analysis

Used for routine analysis of samples.

#### Interface:

Easy Gui access for editing

1. date & Time
2. Network setting
3. Display setting
4. wifi setting
5. app auto lock setting

#### Report:

Date, time, user name, reviewed by, approved by stamped GLP compliance report Different types of reports - result, parameter, document and graph - are provided . user can use it for quick view, print report or save report to USB stick (pen drive) in pdf format.

#### Online video for melting process

Online video provides real time presentation of state of sample under process. last video is recorded for offline observation of melting process

## Selection Guide to choose the model



| Specifications      | Check Melt - OB   | Check Melt - SB   | Check Melt - VR   |
|---------------------|---|---|---|
| Heating Media       | Oil Bath with Magnetic Stirrer                                      | Solid Aluminum Block  | Aluminum block with protective coating  |
| Range               | (Ambient + 5)°C to 300°C.   | Ambient + 5)°C to 400°C   | Ambient + 5)°C to 400°C   |
| Temp. Accuracy      | ±0.5°C (0 to 300°C)   | ±0.5°C (0 to 400°C)   | ±0.3°C (0 to 200°C)<br>±/-0.5°C (200 to 400°C)  |
| Heating Time        | 20 min. (50°C to 300°C)   | 20 min. (50°C to 400°C)   | 15 min. (50°C to 300°C)   |
| Cooling Time        | 20 min. (300°C to 50°C)   | 20 min. (400°C to 50°C)   | 15 min. (300°C to 50°C)   |
| No. of samples      | 3 melting point or 1 boiling point at a time                        | 3 melting point or 1 boiling point at a time                        | 4 Samples   |
| Control Module      | PID controller  | PID controller  | PID controller  |
| Graphic LCD Display | 128 x 64 Dots Blue-White  | 128 x 64 Dots Blue-White  | 7" TFT touch display  |
| Keyboard            | Soft touch membrane type  | Soft touch membrane type  | Touch screen (optional<br>Cordless mouse, keyboard)   |
| Power Supply        | 230V +/- 10% AC 50Hz.   | 230V +/- 10% AC 50Hz.   | 230V +/- 10% AC 50Hz.   |
| Interface           | Both Serial RS 232 & Parallel. (Optional Serial Dot matrix printer) | Both Serial RS 232 & Parallel. (Optional Serial Dot matrix printer) | USB interface for printer, keyboard, and mouse. Lan, wan interface for computer                 |
| Heater              | 48V, 120W   | 48V, 120W   | 120W  |
| Temp. Resolution    | 0.1°C   | 0.1°C   | 0.1°C   |
| Ramp Rate           | 0.5/1°C/min   | 0.5/1°C/min   | 0.1°C to 20°C   |
| Reproducibility     | 1.0 %   | 1.0 %   | ± 0.2°C   |
| Mode of detection   | Manual  | Manual  | Automatic /Manual   |
| Result              | Melting point, Melting range & Boiling point.                       | Melting point, Melting range & Boiling point.                       | Melting point & Melting range (auto/manual) of sample in terms of °C with sample result report. |
| Reports             | Date & Time stamped GLP Compliant 200 Result Reports.               | Date & Time stamped GLP Compliant 200 Result Reports.               | Date & Time stamped GLP Compliant 1000 Result Reports with Parameters.                          |
| User Methods        | 100 for Melting point & 30 for Boiling point.                       | 100 for Melting point & 30 for Boiling point.                       | 1000 methods in all for Melting point   |

( Due to continuous R & D, the specification & Dimensions are subject to modification.)



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