

EP-MB 165

Liquid Bath / Dry-Bloc

Multifunction temperature calibrator EP-MB 165 is an equipment suitable for all conditions and applications, covering different kind of industries. The EP-MB 165 multifunction is the most advanced equipment in its class. Designed to work in a few minutes, as a dry block and liquid bath. Thanks to the wide variety of inserts available, it allows you to calibrate any probe or thermocouple. The EP-MB 165 has a temperature range of $-35^{\circ}\text{C} \dots 165^{\circ}\text{C}^*$, stability of 0.01°C and accuracy of 0.1°C .



HIGHLIGHTS

- Fast Response Time
- Temperature range $-35 \dots 165^{\circ}\text{C}^*$
- All in one: dry block and liquid bath
- Easy change between the calibration functions
- Immersion Depth: 190 mm
- Resolution: 0.1°C
- Stability: 0.01°C
- Accuracy: 0.1°C
- Uniformity: 0.03°C
- Portable unit
- 3 Years Warranty

APPLICATIONS

- Calibration Laboratories
- Testing Labs
- Universities / R & D
- Chemical / Pharmaceutical Industry
- Suitable use in the food industry
- Easy maintenance and service

General information

User interface with double display resolution 0.1
 All in one equipment (Dry Block/ Liquid Bath)
 Intuitive operation of the calibration functions
 Robust against damage
 Menu adjustable with 10 calibration points for best performance
 Communication RS485 Modbus RTU (connector DB9) Optional
 Stirrer speed controlled by potentiometer
 Top level performance

Technical data

Operating temperature range (°C)	-35 ... 165°C*		
Accuracy	0.1 °C		
Resolution	0.1°C		
Reference temperature sensor	internal		
Calibration Volume	Ø 60 mm x 190 mm		
Warm-up time	from -5 to 100°C: 15 Minutes		
Cooling time	from 25 to -25°C: 20 Minutes		
Housing and assembly	portable		
Dimensions W x L x H (mm)	250 x 370 x 400		
Weight (kg)	approx. 12.8 kg		
Supply	100 ... 234 Vac 50/60 Hz		
Power Consumption	approx. 310 W		
LIQUID BATH**		DRY BLOCK	
Temperature Stability	±0.01 °C	Temperature Stability	±0.01 °C
Uniformity	±0.03 °C	Uniformity	±0.05 °C
Accuracy	0.1 °C	Insert Dimensions	59.5mm x165mm
Well capacity	0.7 liters	Optional Inserts	
		1 x Ø 3,5 / 1 x Ø 6,5/ 1 x Ø 8,5/ 1 x Ø 10,5 mm	
		2 x Ø 3,5 / 2x Ø 4,5/ 2 x Ø 6,5/ 2 x Ø 8,5/ 2 x Ø 10,5 mm	
		3 x Ø 3,5 / 3x Ø 6,5/ 3 x Ø 8,5/ 3 x Ø 10,5 mm	
		2 x Ø 3,5 / 1x Ø 4,5/ 1 x Ø 5,0/ 1 x Ø 5,5/ 1 x Ø 6,5/ 1 x Ø 8,5	
		1x Ø 9,0/ 1 x Ø 9,5/ 1 x Ø 10,5 mm	
		Insert tub calibration bath with basket and stirrer	
		Infrared calibration insert with external reference sensor Ø 3 mm***	
		Surface calibration insert. Temp range -25 to 150 °C	

* Minimum Temperature is 55°C below ambient, Absolute Minimum: -35°C

**For using it silicone oil of 10 cSt is recommended

***Blackbody insert operating temp. range -20 ... 150 °C

Scope of delivery

Basic Instrument LCB 30 Basic
Power Cord EU, USA, Others
Teflon Magnetic Stirrer / Magnet extractor, and insert extractor
(multifunction version).
Manufacturing Traceable Calibration Certificate 3.1 (5 Points)
Instruction Manual
Drain Pump
3 Years of Warranty against factory defects



Optional

Multifunction Dry Block/ Liquid Bath
RS 485 ModBus RTU communications (software included, PC cable not included).
Trolley transport case with wheels and handle.
ENAC (ISO 17025) Calibration Certificate
Methacrylate lid with 6 inserts
Several types of inserts (See the Dry Block Technical Data)
Teflon Magnetic Stirrer



Your Note

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