LCB 50 Advance

Multifunction temperature calibrator LCB 50 is an equipment suitable for all conditions and applications, covering different kind of industries. The LCB 50 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 LCB 50 has a temperature range of 30 ... 255 ºC (86 ... 491 ºF) stability of 0.01ºC (0.018 ºF) accuracy of 0.1ºC (0.18 ºF).

APPLICATIONS

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

HIGHLIGHTS

Fast Response Time
Temperature range 30 ... 255 ºC (86 ... 491 ºF)
All in one Dry block and liquid bath
Easy change between the calibration functions
Inmersion Depth: 190 mm
Resolution: 0,1/0,01/ 0,001ºC / F
Stability: 0.01ºC / 0.018ºF
Accuracy: 0.1ºC / 0.18ºF
Uniformity: 0.03ºC / 0.054 ºF
Portable unit
3 Years Warranty

General Information

Easy and intuitive 4.3-inch touch screen user interface
All-in-one equipment (Dry block/Liquid bath, blackdody, surface)
Intuitive operation of the calibration functions
Trend graph with resolution up to 0.1ºC and time selection
Robust against damage
Menu adjustable with 10 calibration points for best performance
Multi-language Spanish, English, German, French, Italian
RS485 ModBus RTU communication (DB9 connector)
Touch screen controlled stirrer
World-class performance

3 WARRANTY YEARS

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Technical Data

Operating Temperature Range(ºC)	30 … 255 ºC / 86 …491 ºF
Accuracy	0.1 ºC / 32.18 ºF
	0.1 ºC / F
Reference temperature sensor	Internal
Calibration Volume	Ø 60mm x 190 mm
Warm-Up time	From 30 to 220ºC / From 86 to 428 ºF: 28 Minutes
Cooling time	From 220 to 100 ºC /From 428 to 12 ºF 30 Minutes
Housing and assembly	Portable
Dimensions An x La x Al (cm)	250 x 370 x 400 mm
Weight (kg)	10.3 kg Approx.
Supply	100 … 234 Vac 50/60 Hz
Power Consumption	Approx 600 W

LIQUID BATH**		DRY BLOCK	
Temperature Stability	±0.01 ºC /± 0.018 ºC	Temperature Stability	±0.01 ºC / ± 0.018 ºF
Uniformity	±0.03 ºC / ± 0.054 ºF	Uniformity	±0.05 ºC / ± 0.09 ºF
Accuracy	0.1 ºC / 0.18 ºF	Insert Dimensions	59.5mm x165mm
Well capacity	0.6 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 50 to 220 ºC / 122 to 428 ºF	

**For using it silicone oil of 20 cSt 7...220 °C / 44.6...428 °F // 50 cSt 50...270 °C / 122...518 °F

*** Blackbody insert operating temp. range 30 … 250ºC / 86 … 482 °F

Scooope of delivery

LCB 50 Advance Basic Instrument

Power Cord EU, USA, Others

Teflon Magnetic Stirrer / Magnet extractor, / insert extractor. (multifuntion version).

Manufacturing Traceable Calibration Certificate 3.1 (8 Points)

PLA lid to hold probes with 6 holes

Instruction Manual

Drain Pump

3 Years of Warranty against factory defects

Optional

Multifunction Dry Block/ Liquid Bath

Trolley transport case with wheels and handle.

ENAC (ISO 17025) Calibration Certificate

PLA lid to hold probes with 6 holes

RS 485 ModBus RTU communications (software included, PC cable not included).

Several types of inserts (See the Dry Block Tecnical Data)

Teflon magnetic stirrer extractor (dry block version only).

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