LCB 3O Advance

Multifunction temperature calibrator LCB 30 Advance is an equipment suitable for all conditions and applications, covering different kind of industries. The LCB 30 Advance 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 30 Advance has a temperature range of -35 ºC ... 165 ºC * (-31 F ...329 F) stability of 0.008 ºC (0.008 F) accuracy of 0.1ºC (0.18 F).

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 -35 … 165ºC*
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 / ºF
Stability: 0.008 ºC / 0.008 F
Accuracy: 0..1ºC / 0.18 F
Uniformity: 0.03ºC / 0.054 F
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 handling of calibration functions
Robust against damage
Trend graph with resolution up to 0.1ºC and time selection
Program functions with up to 8 segments
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)	-35…165ºC* /-31 F ...329 F
Accuracy	0,1ºC /32,18 F
	0.1/ 0.01/ 0.001ºC F (selectable).
Reference temperature sensor	Internal
Calibration Volume	Ø 60mm x 190 mm
Warm-Up time	From -5 to 100ºC: 15 Minutes / From 23 to 212 F: 15 Minutes
Cooling time	From 25 to -25ºC 20 Minutes /From 77 to -13F 20 Minutes
Housing and assembly	Portable
Dimensions An x La x Al (cm)	250 x 370 x 440 mm
Weight (kg)	12.8 kg Approx.
Supply	100 … 234 Vac 50/60 Hz
Power Consumption	Approx 310 W

LIQUID BATH**		DRY BLOCK	
Temperature Stability	±0.01 ºC /± 0.018 ºC	Temperature Stability	±0.01 ºC / ± 0.018 F
Uniformity	±0.03 ºC / ± 0.054 F	Uniformity	±0.05 ºC / ± 0.09 F
Accuracy	0.1 ºC / 0.18 F	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 ºC / -13 to 302 F	

*Minimum Temperature Range is 55 ° C / 131F, below ambient. Absolute minimum -35ºC / -31F

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

Scooope of delivery

LCB 30 Advance Basic Instrument

Power Cable EU, USA, Others.

Teflon Magnetic Stirrer / Magnet extractor (multifuntion version).

Manufacturing Traceable Calibration Certificate 3.1 (8 Points)

Instruction Manual

Drain Pump

PLA lid to hold probes with 6 holes

3 Years of Warranty against factory defects

Optional

Multifunction Dry Block/ Liquid Bath

Trolley transport suitcase with wheels and handle.

ENAC (ISO 17025) Calibration Certificate

PLA lid to hold probes with 6 holes

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

Teflon magnetic stirrer extractor (dry block version only).

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