

# LCB 30 + COOL Advance

Multifunction temperature calibrator LCB 30 + Cool Advance, is an equipment suitable for all conditions and applications, covering different kind of industries. The LCB 30 + Cool 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 -40 ... 140 °C \* (-40 ... 284 F) stability of 0.008 °C (0.008 F) accuracy of 0.1°C(0.18F).



## 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 -40 ... 140°C\*  
All in one Dry block and liquid bath  
Easy change between the calibration functions  
Immersion Depth: 190 mm  
Resolution: 0,1/0,01/ 0,001°C / °F  
Stability: 0.008 °C / 0.008 F  
Accuracy: 0..1°C / 0.18°F  
Uniformity: 0.03°C / 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, blackbody, surface)  
Intuitive handling of calibration functions  
Robust against damage  
Trend graph with resolution up to 0.1°C and time selection  
Menu adjustable with 8 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



## Technical Data

Operating Temperature Range(°C)	- 40 ... 140 °C* /-40 ... 284 F
Accuracy	0,1°C / 0,18 F
Resolution	0.1/ 0.01/ 0.001°C F (selectable).
Reference temperature sensor	Internal
Calibration Volume	Ø 60mm x 190 mm
Warm-Up time	<b>From -5 to 100°C: 15 Minutes / From 23 to 212°F: 15 Minutes</b>
Cooling time	<b>From 25 to -25°C 20 Minutes /From 77 to -13°F 20 Minutes</b>
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 Only works up to -35 °C // -31 F	
Temperature Stability	±0.01 °C / ± 0.018 F	Temperature Stability	±0.01 °C / ± 0.018 F
Uniformity	±0.03 °C / ± 0.054 F	Uniformity	±0.05 °C / ± 0.09 F
Accuracy	0.1 °C / 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
			<b>Infrared calibration insert</b> with external reference sensor Ø3 mm
			Surface calibration insert Temp range -25 to 150 °C / -13 to 302 °F

\*\*For using it silicone oil of 5 & 10 Cst is recommended

\*Minimum Temperature Range is 60 °C / 131 F, below ambient. Absolute minimum - 40 °C / -40 F

## Scoope of delivery

LCB 30 + Cool Advance Basic Instrument  
Power Cable EU, USA, Others.  
Teflon Magnetic Stirrer / Magnet extractor (multifunton 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).

