



## LCA 50

Advanced calibration microbath with temperature range of 30 °C ... 225 °C, 86 °F ... 437 °F. It offers an immersion depth of 190 mm / 7.48 inch and a diameter of 60mm / 2.36 in, allowing a higher range.

Leyro Instruments offer the best calibration bath performance for the most demanding accurate calibrations. Thanks to adjustable magnetic stirrer with potentiometer can homogenize the calibration area, which makes it one of the most reliable equipment due to its high stability of 0.01°C / 0.05 °F, accuracy of 0,1 °C and excellent uniformity 0.05 °C / 0.09 °F.



### APPLICATIONS

Calibration Laboratories  
Testing Labs  
Universities / R&D  
Chemical / Pharmaceutical Industry  
Food industry

### HIGHLIGHTS

Fast response time  
Temperature range 30...225°C  
86°F...437°F  
Temperature control:  
internal/external  
Immersion depth: 190mm / 7.48  
inch  
Stability: 0.01°C / 0.05°F  
Resolution: 0.1°C / 0.01 / 0.001°C  
Accuracy: 0.1°C / 0.2°F  
Uniformity: 0.05°C /

### General Information

PID temperature controller with color touch screen 4.3 inch  
Recorder functions  
Programs and trend graphs  
Adjustable speed magnetic stirrer by potentiometer  
High temperature stability up to  $\pm 0.01^{\circ}\text{C}$  /  $\pm 0.05^{\circ}\text{F}$   
Lower temperature uniformity of  $\pm 0.05^{\circ}\text{C}$  /  $\pm 0.09^{\circ}\text{F}$   
Integrated Pt100 sensor for reference temperature measurements  
Communications Ethernet and two USB ports  
Temperature chamber with basket for temperature sensors to be calibrated

## Technical Data

|                                  |  |
|----------------------------------|--|
| Operating temperature range (°C) | 30 ... 225 °C / 86...437°F                               |
| Temperature control              | Temperature control Ext/ Int<br>PT100 (3/4 Wires) Switch |
| Temperature stability (°C)       | ±0.01 °C / 0.05 °F                                       |
| Uniformity                       | ±0.05 °C / 0,09 °F                                       |
| Resolution                       | 0.1 / 0,01/ 0,001°C                                      |
| Accuracy                         | 0,1°C / 0,2°F  |
| Well Diameter                    | 60 mm / 2,36 inch  |
| Immersion depth                  | 190 mm / 7,48 inch                                       |
| Well capacity                    | 0.7 liters   |
| Warm-up time                     | 25 to 220°C : 42 Minutes / 77 to 428 °F: 42 Minutes      |
| Cooling time                     | 220 to 100°C: 35 Minutes / 428 to 212 °F: 35 Minutes     |
| Housing and assembly             | Portable   |
| Dimensions An x La x Al (cm)     | 280 x 370 x 490  |
| Weight (kg)                      | 15.2 kg  |
| Supply                           | 110 ... 230 Vac 50/60 Hz                                 |

## Scope of Delivery

Basic instrument LCA 50  
Teflon magnetic stirrer, basket, 1.5m. cable and metal lid.  
Traceable Certificate 3.1  
English Manual

## Optional

Trolley transport case with wheels and handle  
ENAC / ISO 17025 calibration certificate  
Methacrylate lid with 5 inserts  
Temperature control Ext/Int (switch)

