



**Calibrate Hard-wired Remote  
Instruments On-Site with Ease!**

## CLB30 Portable Low Temperature Calibration Liquid Bath °F or °C CLB50 Portable High Temperature Calibration Liquid Bath °F or °C

Palmer Wahl's line of portable calibration baths offer high performance in a portable package for the most demanding, accurate on-site temperature calibrations. They are also well suited in the laboratory for demanding temperature calibration tasks.

All units feature a 4-digit PV and SV display and a 60mm diameter calibration well with a 190mm depth. The adjustable magnetic stirrer is controlled by a front panel potentiometer giving the user easy control of the stirrer speed. This allows for good circulation within the bath's calibration well to achieve high performance with high stability and excellent uniformity.

### Features for the CLB30 and CLB50

- Fast response time
- Attached handle and screw-top calibration tank lid make carrying easy and spill-free
- Temperature Stability up to  $\pm 0.03^{\circ}\text{C}$
- Temperature Uniformity of  $\pm 0.05^{\circ}\text{C}$
- Adjustable speed magnetic stirrer for easy control and good circulation
- Internal Pt100 sensor for reference temperature measurements
- Temperature chamber with basket for temperature sensors to be calibrated
- PID temperature controller, easy and intuitive with 4-digit PV and SV Displays
- Keyboard selection of set-point values alert / security and menu



**CLB30**

### Specifications

Specifications				
	CLB30C	CLB30F	CLB50C	CLB50F
	Low Temp ° Celsius	Low Temp ° Fahrenheit	High Temp ° Celsius	High Temp ° Fahrenheit
Temperature Range:	-35° to 165°C <sup>1</sup>	-31° to 329°F <sup>1</sup>	30° to 225°C	86° to 437°F
Temperature Stability:	± 0.03°C	± 0.05°F	± 0.03°C	± 0.05°F
Temperature Uniformity:	± 0.05°C	± 0.09°F	± 0.05°C	± 0.09°F
Screen Resolution:	0.1°C	0.1°F	0.1°C	0.1°F
Accuracy:	± 0.3°C	± 0.54°F	± 0.3°C	± 0.54°F
Heating Time:	0° to 100°C: 15 min. 32° to 212°F: 15 min.		25° to 220°C: 42 min. 77° to 428°F: 42 min.	
Cooling Time:	25° to -25°C: 35 min. 77° to -13°F: 35 min.		220° to 100°C: 35 min. 428° to 212°F: 35 min.	
Immersion Depth:	7.48 in. / 190 mm			
Well Diameter:	2.36 in. / 60 mm			
Well Capacity:	0.7 liters			
Housing and Assembly:	Portable			
Tank Dimensions:	2.36 x 7.48 in. / 60 x 190 mm			
Dimensions W x D x H:	11.02 x 11.02 x 16.92 in. / 280 x 280 x 430 mm (with handle)			
Weight:	28.29 lbs. / 12.8 kg		25.13 lbs. / 11.4 kg	
Power Supply:	100 to 234 Vac, 50 to 60 Hz			
Power Consumption:	310 W Max		320 W Max	

<sup>1</sup> Minimum Temperature is 55°C / 99°F below Ambient, Absolute Minimum -35°C / -31°F.

Specifications subject to change without notice.

### Applications

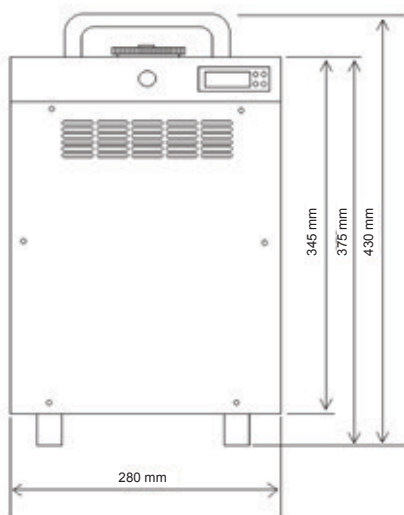
Calibration Laboratories  
Chemical Industry  
Food & Beverage Industry  
Maintenance & Service  
Pharmaceutical Industry  
Research & Development Testing Labs  
Universities



**ISO 9001:2015**  
CERTIFIED QUALITY  
MANAGEMENT SYSTEM

## CLB Series Dimensions

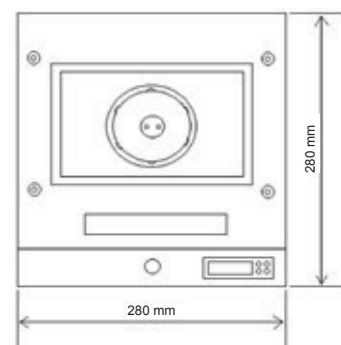
CLB30 / CLB50 Front view



CLB30 / CLB50 Side view



CLB30 / CLB50 Upper view



### CLB30 and CLB50 Series Order Guide

**CLB30F:** -31° to 329°F - Low Temperature Liquid Bath (°F), North American Power Cord

**CLB30F-E:** -31° to 329°F - Low Temperature Liquid Bath (°F), European Power Cord

**CLB30C:** -35° to 165°C - Low Temperature Liquid Bath (°C), North American Power Cord

**CLB30C-E:** -35° to 165°C - Low Temperature Liquid Bath (°C), European Power Cord

**CLB50F:** 86° to 437°F - High Temperature Liquid Bath (°F), North American Power Cord

**CLB50F-E:** 86° to 437°F - High Temperature Liquid Bath (°F), European Power Cord

**CLB50C:** 30° to 225°C - High Temperature Liquid Bath (°C), North American Power Cord

**CLB50C-E:** 30° to 225°C - High Temperature Liquid Bath (°C), European Power Cord

**Includes:** Stainless Steel Transport Cover, Sensor Basket, Teflon Magnetic Stirrer Capsule, Liquid Removal Syringe, Power Cord (1.5m), Certificate of Conformance, User Manual (available online at [palmerwahl.com/downloads](http://palmerwahl.com/downloads))

#### Accessories

**12457-02:** Hermetic Methacrylate lid with 6 inserts to hold probes, 1/8" G female thread, eliminates condensation in the oil and prevents entry and exit of vapors.

**12457-03:** Trolley Transport Case for CLB30 / CLB50 / CDW30, with high density foam, wheels and handle, 12.81 x 12.41 x 21.07 in. / 325 x 315 x 535 mm.

**12457-05:** Silicone Oil - 10cSt, 0.7 liters, -35° to 160°C (Recommended for CLB30/CLB31)

**12457-06:** Silicone Oil - 50cSt, 0.7 liters, 30° to 225°C (Recommended for CLB50/CLB51)



**12457-03: Optional Trolley Transport case with wheels and handle**



**ISO 9001:2015**  
CERTIFIED QUALITY  
MANAGEMENT SYSTEM

**Palmer Wahl**  
BEYOND THE SCALE

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