

# Dry Block Calibrators



## With a More Rugged and Lightweight Case

### CL-780A Series



Standard

- ✓ Housed in a Rugged Metal Case for Field Use
- ✓ RS232 Computer Interface for Data and Program Transfer or Real Time Control
- ✓ High Accuracy and Stability for Certifying Temperature Sensors and Hydraulic Thermostats
- ✓ Fast Setting Time for Rapid Testing
- ✓ Large Interchangeable Insert Format for Flexibility of Use
- ✓ Fast Heat-Up and Cool-Down Times
- ✓ Improved Uniformity and Control Stability of the Temperature Zone
- ✓ Display Resolution: 0.01
- ✓ NIST-Traceable Calibration Certificate Included



CL-780A shown smaller than actual size.

The CL-700A Series models are shipped ready for use right out of the box complete with AC power cord, insert removal tool, NIST-traceable calibration and RS232 interface.

The CL-700A Series range is covered by an industry leading 3-year parts and labor warranty.

The CL-700A Series models use the same inserts as previous models, so you can easily upgrade without the need to replace any custom inserts you may already have. See series CL-700A, at Omega for a list of inserts. For those who want to run a unit from a PC we offer Calsoft software which is free for download.

### Specifications

#### CL-770A

**Minimum Temperature:**  
45°C (113°F) below ambient

**Maximum Temperature:**  
140°C (284°F)

**Temperature Accuracy:**  
±0.3°C (32.5°F)

**Temperature Uniformity (Radial):**  
±0.2°C (32.3°F)

**Temperature Stability  
(After 10 Minutes):**  $\pm 0.05^{\circ}\text{C}$  (32.09°F)  
**Display Resolution:**  
 0.01°C or 0.1°F  
**Setpoint Resolution:**  
 0.1°C or 0.1°F  
**Heating Rate, 20 to 100°C  
(68 to 212°F):** 5 minutes  
**Cooling Rate, 100 to 0°C  
(212 to 32°F):** 9 minutes  
**Large Well Inserts:** 38 x 114.3 mm  
 (1.5 x 4.5")  
**Dimensions:**  
 267 H x 206 W x 290 mm D  
 (10.7 x 8.1 x 11.4")  
**Weight:** 12.7 kg (28 lb)  
**RS232 Interface:** Included

**CL-780A**  
**Minimum Temperature:**  
 20°C (68°F) above ambient  
**Maximum Temperature:**  
 425°C (797°F)  
**Temperature Accuracy:**  
 $\pm 0.3^{\circ}\text{C}$  (32.5°F)  
**Temperature Uniformity (Radial):**  
 $\pm 0.2^{\circ}\text{C}$  (32.3°F)  
**Temperature Stability  
(After 10 Minutes):**  
 200°C (392°F):  $\pm 0.03^{\circ}\text{C}$   
 425°C (797°F):  $\pm 0.05^{\circ}\text{C}$   
**Display Resolution:**  
 0.01°C or 0.1°F  
**Setpoint Resolution:**  
 0.1°C or 0.1°F  
**Heating Rate, 20 to 400°C:** 12 minutes  
**Cooling Rate, 400 to 100°C:** 21 minutes  
**Large Well Inserts:** 38 x 114.3 mm  
 (1.5 x 4.5")  
**Dimensions:**  
 269 H x 170 W x 254 mm D  
 (10.6 x 6.7 x 10.0")  
**Weight:** 6.3 kg (14 lb)  
**RS232 Interface:** Included

**CL-790A**  
**Minimum Temperature:**  
 25°C (77°F) above ambient  
**Maximum Temperature:**  
 650°C (1202°F)  
**Temperature Accuracy:**  
 $\pm 0.4^{\circ}\text{C}$  (32.7°F)  
**Temperature Uniformity (Radial):**  
 $\pm 1.0^{\circ}\text{C}$  (33.8°F)  
**Temperature Stability  
(After 10 Minutes):**  $\pm 0.09^{\circ}\text{C}$  (32.2°F)  
**Display Resolution:** 0.01°C or 0.1°F  
**Setpoint Resolution:** 0.1°C or 0.1°F  
**Heating Rate, 20 to 600°C:** 24 minutes  
**Cooling Rate, 600 to 200°C:** 21 minutes  
**Large Well Inserts:** 38 x 152 mm  
 (1.5 x 6.0")  
**Dimensions:**  
 277 H x 170 W x 300 mm D  
 (10.9 x 6.7 x 11.8")  
**Weight:** 10.8 kg (24 lb)  
**RS232 Interface:** Included



To Order	
Model No.	Description
CL-770A	Block calibrator 120V, 900 W, 50/60 Hz
CL-770A-230	Block calibrator 240V, 900 W, 50/60 Hz
CL-780A	Block calibrator 120V, 900 W, 50/60 Hz
CL-780A-230	Block calibrator 240V, 900 W, 50/60 Hz
CL-790A	Block calibrator 120V, 1100 W, 50/60 Hz
CL-790A-230	Block calibrator 240V, 1100 W, 50/60 Hz

Accessories	
Model No.	Description
CL790-CASE	Soft carrying case for models CL-780A and CL-790A
CL7A-CASE	Soft carrying case for model CL-770A

*Comes complete with 1.8 m (6') power cord, insert extractor tool, NIST-traceable calibration, RS232C interface, and operator's manual.*

**Ordering Examples:** CL-770A, block calibrator 120V, 900 W, 50/60 Hz.  
 CL780A, block calibrator 120V, 900 W, 50/60 Hz.