

# Precision Fluidized Bath Temperature Probe Calibrator



**Fluidized Bath of Choice for Critical Processes Requiring the Highest Stability and Uniformity at Temperatures Up to 700°C (1292°F)**

**Temperature Stability as Good as  $\pm 0.01^\circ\text{C}$  Using the Dead Bed Method\***

**Non-Abrasive to Any Devices or Parts Put Into the Bath, Including Those Highly Polished**

**More Efficient Than Ovens (Heat Loss When Door is Opened) and Salt Baths; Fast Recovery Time After the Bath is Quenched**

**Safer and Cleaner Alternative to Conventional Liquid Systems and Volatile Salt Baths**

The FFB-8 is a precision fluidized bath, with exceptional temperature stability and uniformity, which make them the ideal choice for critical temperature sensor calibration and heat treatment processes. FFB-8 fluidized (sand) bath has become the market standard for carrying out shape setting (heat treatment processing) of metals including Nitinol and platinum for medical device manufacturing. This unit is suitable for many other applications, including thermal testing of sensitive



FFB-8 shown smaller than actual size.

components such as semiconductor devices, wire products, delicate transducers and may also be used as a constant temperature environment for chemical reactions. Because the fluidized bed is a fine, dry powder, it does not have surface tension effects of liquid baths and will not wet any immersed components. The electrical insulating properties of the alumina used in the FFB-8 are not affected by fluidization making.

*\* The dead bed mode of operation is entered by shutting off air and power to the unit. The system reaches a state of thermal equilibrium after the bath media collapses and stability is better than  $\pm 0.010^\circ\text{C}$  for a period of 3 to 6 minutes. This allows for precise comparison calibration of temperature sensors in the bath.*

## Specifications

**Temperature Range:** 50 to 700°C (122 to 1292°F)

**Short Term Temperature Stability:**

50°C:  $\pm 0.2^\circ\text{C}$

600°C:  $\pm 0.3^\circ\text{C}$

**Long Term Temperature Stability:**

50°C:  $\pm 0.5^\circ\text{C}$

600°C:  $\pm 0.5^\circ\text{C}$

**Display Resolution:**  $^\circ\text{C}$

**Type of Control:** 3 term PID

**Sensor:** Type K thermocouple

**Heat Up Time:** 20 to 70°C (68 to 158°F), 105 min

**Cool Down Time:** 700 to 200°C (1292 to 392°F), 165 minute

**Air Pressure:** 420 kPa (60 psi)

**Maximum Flow Liters:** 127 per minute

**Nominal Heater Power:** 240V, 3000 W

**Voltage:** 240 Vac, 50/60 Hz, 3000 W

**Working Volume:**

165 Dia x 385 mm depth (6.5 x 15")

**Overall Dimensions:**

770 L x 515 W x 600 mm H (30 x 20 x 23.6")

**Weight of Medium:** 16 kg (35 lb)

**Weight:** 102 kg (225 lb)



OMEGACARE<sup>SM</sup> extended warranty program is available for models shown on this page. Ask your sales representative for full details when placing an order. OMEGACARE<sup>SM</sup> covers parts, labor and equivalent loaners.

To Order	
Model No.	Description
FFB-8	Fluidized bath temperature probe calibrator
7031993	Probe holder for sensor calibrations
6037759	Basket probe plate

Comes complete with operator's manual.

**Ordering Example:** FFB-8, fluidized bath temperature probe calibrator. OCW-1, OMEGACARE<sup>SM</sup> extends standard 3-year warranty to a total of 4-years.