

TECHNICAL DATA

7340/7380 Compact Temperature Calibration Baths



Key features

- Stability and uniformity better than $\pm 0.008^{\circ}\text{C}$, perfect for precision thermometer testing.
- Can be used on benchtops or on matching carts
- Available in high-temperature (150°C) and low-temperature (-80°C) models.
- Excellent temperature stability ($\pm 0.005^{\circ}\text{C}$) and uniformity ($\pm 0.005^{\circ}\text{C}$).

Product overview: 7340/7380 Compact Temperature Calibration Baths

7340

With an optional floor cart (including locking casters), your bath can easily be moved to any place you need it. (Available for the 7340). Casters included on the 7380.

Also featuring large work areas, our Model 7340 baths cover your needs for low temperature calibrations. The 7340 reaches cold temperatures to -40°C . Below 0°C , these baths maintain an impressive stability of $\pm 0.005^{\circ}\text{C}$ with uniformities better than $\pm 0.006^{\circ}\text{C}$. No utility bath performs as well as Fluke Calibration's compact baths below 0°C or

at critical room and body temperatures—or even at important higher temperatures such as 100 °C and 122 °C.

7380

For ultracold temperatures, the 7380 reaches –80 °C quickly and maintains a two-sigma stability of ± 0.006 °C when it gets there. The 7380 is a true metrology bath, not a chiller or circulator. With uniformity to ± 0.008 °C, comparison calibration of temperature devices can be performed with high precision.

Each bath includes an RS-232 serial interface for controlling your bath from a PC. With a Fluke Calibration thermometer readout, such as a Black Stack, and our MET/TEMP II software, automated calibrations can run unattended.

Fluke Calibration doesn't make chillers, circulators, or so-called utility baths, and utility bath manufacturers don't make metrology baths. Use the right tools for your work and reap the best possible results. Baths from Fluke Calibration are the most stable and uniform of any you'll find. They'll give you results no other bath can.

Specifications: 7340/7380 Compact Temperature Calibration Baths

Specifications		
	7340	7380
Range	–40 °C to 150 °C	–80 °C to 100 °C
Stability	± 0.005 °C at –40 °C (ethanol) ± 0.005 °C at 25 °C (water) ± 0.007 °C at 150 °C (oil 5012)	± 0.006 °C at –80 °C (ethanol) ± 0.010 °C at 0 °C (ethanol) ± 0.010 °C at 100 °C (oil 5012)
Uniformity	± 0.006 °C at –40 °C (ethanol) ± 0.005 °C at 25 °C (water) ± 0.010 °C at 150 °C (oil 5012)	± 0.008 °C at –80 °C (ethanol) ± 0.012 °C at 0 °C (ethanol) ± 0.012 °C at 100 °C (oil 5012)
Heating Time[†]	60 minutes, from 25°C to 150°C (oil 5012)	25 minutes, from 25 °C to 100 °C (oil 5010)
Cooling Time	110 minutes, from 25°C to –40°C (ethanol)	130 minutes, from 25 °C to –80 °C (ethanol)
Stabilization Time	15–20 minutes	
Temperature Setting	Digital display with push-button data entry	
Set-Point Resolution	0.01°; 0.00018° in high-resolution mode	0.01°
Display Resolution	0.01 °	

Digital Setting Accuracy	± 0.5 °C	
Digital Setting Repeatability	± 0.01 °C	
Access Opening	94 x 172 mm (3.7 x 6.8 in)	86 x 114 mm (3.25 x 4.5 in)
Working Area	81 x 133 mm (3.2 x 5.25 in)	86 x 114 mm (3 x 4 in)
Depth	234 mm (9.25 in)	178 mm (7 in)
Wetted Parts	304 stainless steel	
Power	115 V ac (±10 %), 60 Hz, 15 A or 230 V ac (±10 %), 50 Hz, 8 A, specify, 1400 VA	115 V ac (±10 %) 60 Hz, 16 A or 230 V ac (±10 %),50 Hz, 8 A, specify
Volume	9.2 liters (2.4 gal)	4 liters (1 gal)
Size (WxDxH)	305 x 622 x 584 mm (12 x 24.5 x 23 in) off cart; 305 x 622 x 819 mm (12 x 24.5 x 32.25 in) on cart	305 x 610 x 762 mm (12 x 24 x 30 in)
Weight	35.4 kg (78 lb)	52 kg (115 lb)
Automation	Use the 1586A Super-DAQ to automate temperature sensor calibration	
†Rated at nominal 115 V (or optional 230 V)		

Ordering information



7340

Compact Bath, -40 °C to 150 °C

Part#: 0

7380

Compact Bath, -80 °C to 100 °C

Part#: 0

2125-C

IEEE-488 Interface (RS-232 to IEEE-488 converter box)

Part#: 2645462

2001-IEEE

IEEE-488 Interface

Part#: 1649341

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