

## TECHNICAL DATA

# 7008/7037/7012/7011 Refrigerated Temperature Calibration Baths





## Key features

- High temperature stability to  $\pm 0.0007$  °C.
- Set-point resolution to 0.00003 °C.
- Exceptional temperature stability ( $\pm 0.0015$  °C) and uniformity ( $\pm 0.003$  °C) at low temperatures down to -40 °C.

## Product overview: 7008/7037/7012/7011 Refrigerated Temperature Calibration Baths

These four baths operate at temperatures as low as -40 °C, and each one is built using CFC-free refrigerants. Fluke Calibration's proprietary controller design and unique tank construction produce bath stabilities to  $\pm 0.001$  °C or better. These baths are so stable and uniform that national labs use them for comparison calibrations and fixed-point cell maintenance.

Each bath (except the 7011) is fully automatable with a bath interface package and Fluke Calibration's MET/TEMP II automation software package. When we automate a bath, we automate it completely with computer-controlled solenoid valves for precision balancing of the heating and cooling system. MET/TEMP II performs all calibration tasks automatically, using your PC.

With a Fluke Calibration cold bath, you can forget external coolants. Internal refrigeration systems are all that's needed to reach each bath's coldest temperature. Most cold baths may be ordered with an optional pumping lid for supplying external cooling requirements.

Each bath has unique characteristics that make it perfect for specific jobs. Some baths are excellent for SPRTs, some are great with thermistors, and some are perfect for maintaining triple point of water cells. A 7008IR bath can even be used to maintain the temperature of a blackbody cone.

Regardless of your application, Fluke Calibration has a bath that gets the job done, and done better than anyone else can do it. Call us today and tell us about your application.

## Specifications: 7008/7037/7012/7011 Refrigerated Temperature Calibration Baths

Specifications				
Model	7008	7037	7012	7011
Range	-5 °C to 110 °C	-40 °C to 110 °C	-10 °C to 110 °C	
Stability	$\pm 0.0007$ °C at 25 °C (water) $\pm 0.001$ °C at 25 °C (mineral oil)	$\pm 0.002$ °C at -40 °C (ethanol) $\pm 0.0015$ °C at 25 °C (water) $\pm 0.003$ °C at 100 °C (oil 5012)	$\pm 0.0008$ °C at 0 °C (ethanol) $\pm 0.0008$ °C at 25 °C (water) $\pm 0.003$ °C at 100 °C (oil 5012)	
Uniformity	$\pm 0.003$ °C at 25 °C (water) $\pm 0.004$ °C at 25 °C (mineral oil)	$\pm 0.004$ °C at -40 °C (ethanol) $\pm 0.002$ °C at 25 °C (water) $\pm 0.004$ °C at 100 °C (oil 5012)	$\pm 0.003$ °C at 0 °C (ethanol) $\pm 0.002$ °C at 25 °C (water) $\pm 0.004$ °C at 100 °C (oil 5012)	

<b>Temperature Seing</b>	Digital display with push-buon data ey		
<b>Set-Point Resolution</b>	0.002 °C; high-resolution mode, 0.00003 °C	0.01 °C; high-resolution mode, 0.00007 °C	0.002 °C; high-resolution mode, 0.00003 °C
<b>Display Resolution</b>	0.01 °C		
<b>Digital Seing Accuracy</b>	±1 °C		
<b>Digital Seing Repeatability</b>	±0.01 °C		±0.005 °C
<b>Heaters</b>	500 and 1000 Was		
<b>Access Opening (call for customs)</b>	324 x 184 mm(12.75 x 7.25 in)	162 x 292 mm(6.38 x 11.5 in)	127 x 254 mm(5 x 10 in)
<b>Depth</b>	331 mm (13 in)	457 mm (18 in)	305 mm (12 in)
<b>Weed Parts</b>	304 Stainless Steel		
<b>Power</b>	115 VAC (±10 %), 60 Hz, 14 A or 230 VAC, 50 or 60 Hz, 8 A, specify	115 VAC (±10 %), 60 Hz, 16 A or 230 VAC (±10 %), 50 or 60 Hz, 9 A (specify voltage and frequency)	115 VAC (±10 %), 60 Hz, 14 A or 230 VAC (±10 %), 50 Hz, 7 A, specify
<b>Volume</b>	42 liters (11.2 gal)	42 liters (11.2 gal)	27 liters (7.2 gal)
<b>Weight</b>	61 kg (135 lb)	68 kg (150 lb)	56.7 kg (125 lb)
<b>Size</b>	610 x 775 x 483 mm (24 x 30.5 x 19 in)	775 x 768 x 483 mm (30.5 x 30.25 x 19 in)	762 x 686 x 401 mm (30 x 27 x 15.8 in) 559 x 686 x 401 mm (22 x 27 x 15.8 in)
<b>Automation</b>	Use the 1586A Super-DAQ to automate temperature sensor calibration		

## Ordering information

**7008**

Standard Bath, -5 °C to 110 °C, high capacity

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**7011**

Standard Bath, -10 °C to 110 °C

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**7012**

Standard Bath, -10 °C to 110 °C, deep

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**7037**

Standard Bath, -40 °C to 110 °C, deep

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**7008IR**

7008 Bath, modified to accept an IR cone

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**2033**

IR Cone (NIST design)

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**2016-7008**

Fluid Level Adapter, 7008

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**2016-7011**

Fluid Level Adapter, 7011

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**2016-7012**

Fluid Level Adapter, 7012

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**2016-7037**

Fluid Level Adapter, 7037

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**2016-7040**

Fluid Level Adapter, 7040

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**2071**

Bath Cart, 7011, 7012 (312 mm [12.3 in] H)

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