

TECHNICAL DATA

7040 Refrigerated Temperature Calibration Bath



Product overview: 7040 Refrigerated Temperature Calibration Bath

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

The bath 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.

Specifications: 7040 Refrigerated Temperature Calibration Bath

Specifications	
Model	7040
Range	–40 °C to 110 °C
Stability	±0.002 °C at –40 °C (ethanol) ±0.0015 °C at 25 °C (water) ±0.003 °C at 100 °C (oil 5012)
Uniformity	±0.004 °C at –40 °C (ethanol) ±0.002 °C at 25 °C (water) ±0.004 °C at 100 °C (oil 5012)
Temperature Seing	Digital display with push-buon data ey
Set-Point Resolution	0.01 °C; high-resolution mode, 0.00007 °C
Display Resolution	0.01 °C
Digital Seing Accuracy	±1 °C
Digital Seing Repeatability	±0.01 °C
Heaters	500 and 1000 Was
Access Opening (call for customs)	127 x 254 mm(5 x 10 in)
Depth	305 mm (12 in)
Weed Parts	304 Stainless Steel
Power	115 VAC (±10 %), 60 Hz, 16 A or 230 VAC (±10 %), 50 or 60 Hz, 9 A (specify voltage and frequency)
Volume	27 liters (7.2 gal)
Weight	63.5 kg (40 lb)
Size	622 x 768 x 483 mm (24.5 x 30.25 x 19 in)
Automation	Use the 1586A Super-DAQ to automate temperature sensor calibration

Ordering information



7040

Standard Bath, -40 °C to 110 °C

2033

IR Cone (NIST design)

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