TECHNICAL DATA

7009/7108/7015 Resistor Baths

Key features

- Three size options to accommodate any quantity of resistors.
- High temperature stability to ±0.0007 °C.
- Includes independent high- and low-temperature cutout circuit.
- Minimizes long-term drift for consistent performance.
- Proprietary controller that senses temperature changes as small as 0.00001 °C, improving stability.

Product overview: 7009/7108/7015 Resistor Baths

7015

The 7015 has a 95-liter tank and a temperature range of 0 °C to 50 °C. It's stable to ±0.0007 °C.

It has a one-piece stainless steel lid designed to drain spills and splashes back into the bath as you remove resistors. It has a large access opening to make handling large resistors, like the Thomas design standard resistors, easier. The tank has an electrically isolated resistor shelf.

This is truly a quality resistor bath, and it's backed by our industry-leading service.

7009

This is a large bath with a tank 27½ inches long by 22 inches wide. It has a temperature range of 0 °C to 50 °C and a

stability of ±0.0007 °C.

For a bath this size and with these specs, it is priced extremely well. The Model 7009's large tank can handle many resistors of any size.

7108

This is the quietest resistor bath you've ever heard. The 7108 uses thermoelectric (Peltier) modules to provide heating and cooling over its range from 20 °C to 30 °C. Without a compressor, noise is dramatically reduced. Power requirements are also lower, so you save money running the bath and add less heat load to your lab.

With a 51-liter (13.2-gal) tank, the 7108 holds plenty of resistors. A large 14" x 14" (356 x 356 mm) access opening allows you to easily move resistors in and out of the bath. A resistor rack comes with each unit that fits across the bottom of the tank. Made from hard-anodized perforated aluminum, this rack maintains the necessary electrical isolation between your resistors.

Specifications: 7009/7108/7015 Resistor Baths

Specifications	7015	7009	7108
Range	0 °C to 50 °C[†]	0 °C to 50 °C[†]	20 °C to 30 °C
Stability at 25 °C	±0.0007 °C (water) ±0.001 °C (mineral oil 5011)		±0.002 °C (water) ±0.004 °C (mineral oil 5011)
Uniformity	±0.003 °C at 25 °C (water) ±0.005 °C at 25 °C (mineral oil 5011)		±0.005 °C (water) ±0.008 °C (mineral oil 5011)
Temperature Seing	Digital display with push-buon data ey		
Set-Point Resolution	0.002 °C; high-resolution mode, 0.00003 °C		
Display Resolution	0.01 °C		
Digital Seing Accuracy	±1 °C		±0.5 °C
Digital Seing Repeatability	±0.01 °C		
Heaters	500 and 1000 Was		Peltier heating/cooling
Cooling Capacity	100 to 200 Was		100 W in ambient 23 °C
Access Opening	699 x 279 mm (27.5 x 11 in)	699 x 559 mm (27.5 x 22 in)	356 x 356 mm (14 x 14 in)
Bath Chamber Dimensions (HxWxD) (unobstructed space)	699 x 279 x 330 mm (27.5 x 11 x 13 in)	669 x 559 x 330 mm (27.5 x 22 x 13 in)	356 x 203 x 355 mm (14 x 8 x 14 in)
Depth	330 mm (13 in)		203 mm (8 in)
Weed Parts	304 stainless steel		Tank: 304 stainless steel Resistor rack: hard-anodized, perforated aluminum
Safety Cutout	Factory-set high temperature		n/a

https://fluke.com.au/en-us/product/calibration-tools/temperature-calibration/calibration-baths/7009-7108-7015

Power	115 VAC (±10 %), 60 Hz, 15 A or 230 VAC, 50 or 60 Hz, 8 A, specify	230 VAC (±10 %), 50 or 60 Hz, 12 A (specify frequency)	115 VAC (±10 %), 50/60 Hz, 3 A or 230 VAC (±10 %), 50/60 Hz, 1.6 A, specify
Volume	95 liters (25 gallons)	167 liters (44 gallons)	51 liters (13.2 gallons)
Weight	141 kg (310 lb.)	150 kg (330 lb.)	35 kg (75 lb.)
Size (HxWxD)	1219 x 1118 x 559 mm (48 x 44 x 22 in)	1092 x 1130 x 864 mm (43 x 44.5 x 34 in)	489 x 413 x 559 mm (19.25 x 22 x 25 in)
Automation	Use the 1586A Super-DAQ to automate temperature sensor calibration		

[†]Although the 7015 and 7009 baths are capable of reaching higher temperatures, they are designed for use with standard resistors. Therefore, the soft cutout of the instrument has been set at the factory to 50°C to protect standard resistors placed in the bath.

Ordering information

7015
Resistor Bath

7009
Resistor Bath, high capacity

7108
Resistor Bath, Peltier-cooled, includes RS-232

2001-IEEE

IEEE-488 Interface, 6330/7320/7340

https://fluke.com.au/en-us/product/calibration-tools/temperature-calibration/calibration-baths/7009-7108-7015

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