

TECHNICAL DATA

6050H Extremely High Temperature Calibration Salt Bath



Key features

- High-temperature calibration capability up to 550 °C.
- Electronically adjustable temperature cutouts for precise control.
- Exceptional temperature stability of ± 0.008 °C at 550 °C.
- Advanced temperature uniformity of ± 0.005 °C for accurate calibration.

Product overview: 6050H Extremely High Temperature Calibration Salt Bath

This model is designed for high-temperature work—up to 550 °C. Most labs use this as a salt bath for calibration of thermocouples, RTDs, and SPRTs. In fact, this bath is so good you can even do comparison calibrations of SPRTs with it. The bath is stable to ± 0.005 °C or better at 300 °C.

Fluke Calibration is the only company that offers complete automated calibration software packages that work with the bath interface option. Our optional software is not just a data acquisition package; it actually controls the calibration, including bath temperatures.

Choose the model that most closely matches your needs. These baths are compatible with salt for higher temperatures and also with oils for lower temperatures.

Fluke sells a complete selection of salt and fluids for your bath. You can find these here. Salt baths offer better performance and less mess than sand baths. SPRT comparison calibrations in a sand bath aren't reliable the way they are in a Fluke Calibration salt bath.

All options, including the automation interface package, are available for the 6050H. It is the finest-quality salt bath you can buy!

If you need to reach the maximum temperature possible in a salt bath, the Fluke Calibration 6050H goes to 550 °C and is 10 to 100 times more stable than alternative calibration devices.

It is 305 mm (12 in) deep and has a 127 x 254 mm (5 x 10 in) well opening for easy access. Ports in the rear of the bath access cooling coils if you want to cool the bath rapidly with external fluids.

Specifications: 6050H Extremely High Temperature Calibration Salt Bath

Specifications	
Range	180 °C to 550 °C
Stability	±0.002 °C at 200 °C (salt) ±0.004 °C at 300 °C (salt) ±0.008 °C at 550 °C (salt)
Uniformity	±0.005 °C at 200 °C (salt) ±0.020 °C at 550 °C (salt)
Temperature Setting	Digital display with push-button data entry
Set-Point Resolution	0.01 °C; high-resolution mode, 0.00018 °C
Display Temperature Resolution	0.01 °C
Digital Setting Accuracy	±1 °C
Digital Setting Repeatability	±0.02 °C
Heaters	400, 1200, and 2000 Watts
Access Opening	127 x 254 mm (5 x 10 in)
Depth	305 mm (12")
Wetted Parts	304 stainless steel
Power	230 VAC (±10 %), 50/60 Hz, 10 A
Volume	27 liters (7.1 gal), requires 50 kg (112 lb) of bath salt
Weight	82 kg (180 lb.)
Size (HxWxD)	724 x 518 x 622 mm (28.5 x 20.4 x 24.5 in)
Automation	Use the 1586A Super-DAQ to automate temperature sensor calibration

Ordering information



6050H

Standard Bath, 60 °C to 550 °C (includes cart)

Part#: 0

5001

Bath Salt, 125 lb (fills a 30 liter [7.9 gal] tank)

Part#: 1651762

2196

Holding Fixture, 13 probes, 127 x 254 mm (5 x 10 in)

Part#: 1650405

2001-IEEE

IEEE-488 Interface

Part#: 1649341

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