

Really hot bath



- Eliminates messy sand baths
- Electronically adjustable temperature cutouts
- Stability of $\pm 0.008^\circ\text{C}$ at 550°C

You'll find more Hart baths in national calibration labs than any other brand, and there's a reason for that. No one else can match the stability, uniformity, and performance of a Hart bath, and we absolutely guarantee it.

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 $\pm 0.005^\circ\text{C}$ or better at 300°C .

Hart 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.

Hart sells a complete selection of salt and fluids for your bath. You can find these on page 128. 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 Hart 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 Hart 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

Range	180 °C to 550 °C
Stability	$\pm 0.002^\circ\text{C}$ at 200 °C (salt) $\pm 0.004^\circ\text{C}$ at 300 °C (salt) $\pm 0.008^\circ\text{C}$ at 550 °C (salt)
Uniformity	$\pm 0.005^\circ\text{C}$ at 200 °C (salt) $\pm 0.020^\circ\text{C}$ 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	$\pm 1^\circ\text{C}$
Digital Setting Repeatability	$\pm 0.02^\circ\text{C}$
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 V ac ($\pm 10\%$), 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 Package	Interface-it software and RS-232 computer interface are available for setting bath temperature via remote computer. For IEEE-488, add the 2001-IEEE to the automation package.

Ordering Information

6050H	Standard Bath, 60 °C to 550 °C (includes cart)
2001-6050	Automation Package for 6050H
2001-IEEE	Add for IEEE-488 (requires Automation Package)
2014	Spare Access Cover
5001	Bath Salt, 56.8 kg (125 lb)
2023	Fast-Start Heater, 419 mm (16.5 in)