

REALLY HOT BATHS



Baths

Really Hot Baths

Models 6045, 6050, and 6050H

Eliminates messy sand baths

Electronically adjustable temperature cutouts

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.

These three models are designed for high-temperature work up to 550°C. Most labs use them as salt baths for calibration of thermocouples, RTDs, and SPRTs. In fact, these baths are so good you can even do comparison calibrations of SPRTs with them. These baths are stable to $\pm 0.005^\circ\text{C}$ or better at 300°C.

Each bath has a drain, built-in cooling coils, electronically adjustable tempera-

ture cutouts, optional floor carts, and optional automation software and interface packages. (The 6050 and 6050H come with an insulated cover.)

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. (See page 80.)

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.

Model 6045

This bath has a temperature range of 40°C to 400°C and is perfect for thermocouples and RTDs.

It has a large well opening (5 by 10 inches) so you can calibrate a number of sensors at once. It's 12 inches deep and uses 25 liters of fluid.

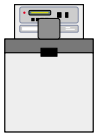
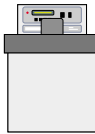

The automation interface package gives you complete PC control of the bath, including precalibration setup. It's available with an RS-232 interface or IEEE-488 interface.

Model 6050

The Hart Model 6050 goes to 500°C and is 10 to 100 times more stable than alternative calibration devices.

It, too, is 12 inches deep and has a 5-by-10-inch well opening for easy access. Ports in the rear of the bath access cool-

Ranges from 20°C to 550°C

Specifications	6045	6050	6050H
			
Range	20°C to 400°C [†]	20°C to 500°C [†]	20°C to 550°C [†]
Stability	±0.002°C at 100°C (oil) ±0.005°C at 300°C (oil) ±0.004°C at 400°C (salt)	±0.002°C at 200°C (salt) ±0.004°C at 300°C (salt) ±0.007°C at 500°C (salt)	±0.002°C at 200°C (salt) ±0.004°C at 300°C (salt) ±0.008°C at 550°C (salt)
Uniformity	±0.004°C at 300°C (oil) ±0.007°C at 400°C (salt)	±0.005°C at 200°C (salt) ±0.015°C at 500°C (salt)	±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	350, 1000, and 1700 watts		
Access Opening	5" x 10" (127 x 254 mm)		
Depth	12" (305 mm)		
Wetted Parts	304 stainless steel		
Power	115 VAC (±10%), 19 A or 230 VAC (±10%), 10 A, specify, 50/60 Hz, 2200 W	230 VAC (±10%), 50/60 Hz, 10 A, 2200 W	
Volume	7.1 gallons (27 liters), requires 112 lb. of bath salt		
Weight	160 lb. (73 kg)	180 lb. (82 kg)	
Size	26.5" H x 19" W x 23" D (673 x 483 x 584 mm)	28.5" H x 20.4" W x 24.5" D (724 x 518 x 622 mm)	
Automation Package	Interface- <i>it</i> 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.		

[†]External cooling required for operation below 40°C. Tubing ports are accessible at the back of the bath for circulating chilled fluid or shop air.

ing coils if you want to cool the bath rapidly with external fluids.

Hart sells a complete selection of salt and fluids for your bath. You can find these on page 110. 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 bath.

Model 6050H

If you need to reach the maximum temperature possible in a salt bath, the Hart Model 6050H goes to 550°C with the same stability and uniformity as other Hart models.

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

Ordering Information

6045	Bath, 400°C	2014	Spare Access Cover (for use with salt only; included with 6050 or 6050H; optional for 6045)
6050	Bath, 500°C	2024	Fast Start Heater, 13.5"
6050H	Bath, 550°C	2023	Fast Start Heater, 16.5"
2001-6045	Automation Package for 6045	2035	Salt Drain Pan
2001-6050	Automation Package for 6050 or 6050H	5031	Salt Bath Safety Equipment Package (includes protective lab coat, heat-resistant gloves, and face shield)
2001-IEEE	Add for IEEE-488 (requires Automation Package)		
2072	Floor Cart with Casters		
2007	Access Cover, 5" x 10", Stainless Steel (6045 only)		
5001	Bath Salt, 125 lb.		



See page 109 for computer interface information and page 78 for calibration software packages.



See our selection of bath fluids on page 110.