

# DEEP-WELL BATHS



Baths

Deep-Well Baths	Models 7007, 6054, and 6055
Constant liquid levels through concentric-tube design	
Special design for sighting LIG thermometers	
Depth up to 24 inches (60 cm)	
Optional interface packages control all settings	

The Hart Models 7007, 6054, and 6055 have extra-deep wells for use with liquid-in-glass thermometers, SPRT calibrations, or other thermometry work requiring extra tank depth.

Well depth varies from 17 to 24 inches to eliminate the stem effect encountered in calibration of probes longer than 12 inches. Originally developed for a national standards lab, these baths are optimized for the visual calibration of liquid-in-glass thermometers.

The 7007 is designed for the temperature range of  $-5^{\circ}\text{C}$  to  $110^{\circ}\text{C}$ , has built-in refrigeration, and is 24 inches deep. The 6054 covers the temperature range of  $50^{\circ}\text{C}$  to  $320^{\circ}\text{C}$  and is also 24 inches deep. The 6055 is engineered for the temperature range of  $150^{\circ}\text{C}$  to  $550^{\circ}\text{C}$  with salt and is 17 inches deep. Specific size differences and various specifications are shown in the comparison table.

The Model 6055, operating up to  $550^{\circ}\text{C}$ , uses molten salts with a pumping system for maintaining the necessary

consistent fluid level required for liquid-in-glass thermometer calibrations. A viewing channel is built into the top cover for a clear visual path to your glass thermometers.

The 6055 also has an optional thermometer carousel for holding several glass thermometers in the correct calibration position without exposing them to the hot salts in the bath. The Model 2018 Carousel is completely constructed of stainless steel and has an elevated handle for rotating your thermometers to the viewing position.

These deep-well baths are built to the same performance standards as all Hart baths, which means you can't find another bath that has better stability or uniformity.

## Ordering Information

7007	Refrigerated Deep-Well Bath
6054	Mid-Range Deep-Well Bath
6055	Hi-Temp Deep-Well Bath
2001-7007	Automation Package for 7007
2001-6054	Automation Package for 6054
2001-6055	Automation Package for 6055
2001-IEEE	Add for IEE-488 (requires Automation Package)
2018	Carousel Holding Fixture for 6055
2069	LIG Telescope with Mounting, 10x magnification
2035	Spare Salt Drain Pan
5031	Salt Bath Safety Equipment Package (includes protective lab coat, heat-resistant gloves, and face shield)

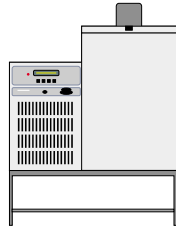
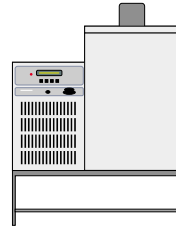
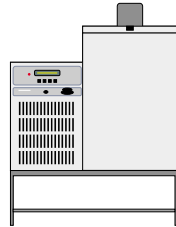


See our selection of bath fluids on page 110.



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# Ranges from $-5^{\circ}\text{C}$ to $550^{\circ}\text{C}$

Specifications	7007	6054	6055
			
Range	$-5^{\circ}\text{C}$ to $110^{\circ}\text{C}$	$50^{\circ}\text{C}$ to $320^{\circ}\text{C}$	$180^{\circ}\text{C}$ to $550^{\circ}\text{C}$
Stability	$\pm 0.001^{\circ}\text{C}$ at $0^{\circ}\text{C}$ (ethanol) $\pm 0.003^{\circ}\text{C}$ at $100^{\circ}\text{C}$ (oil)	$\pm 0.003^{\circ}\text{C}$ at $100^{\circ}\text{C}$ (oil) $\pm 0.005^{\circ}\text{C}$ at $300^{\circ}\text{C}$ (oil)	$\pm 0.003^{\circ}\text{C}$ at $200^{\circ}\text{C}$ (salt) $\pm 0.01^{\circ}\text{C}$ at $550^{\circ}\text{C}$ (salt)
Uniformity	$\pm 0.004^{\circ}\text{C}$ at $0^{\circ}\text{C}$ (ethanol) $\pm 0.007^{\circ}\text{C}$ at $100^{\circ}\text{C}$ (oil)	$\pm 0.007^{\circ}\text{C}$ at $100^{\circ}\text{C}$ (oil) $\pm 0.015^{\circ}\text{C}$ at $300^{\circ}\text{C}$ (oil)	$\pm 0.005^{\circ}\text{C}$ at $200^{\circ}\text{C}$ (salt) $\pm 0.010^{\circ}\text{C}$ at $550^{\circ}\text{C}$ (salt)
Temperature Setting	Digital display with push-button data entry		
Set-Point Resolution	$0.002^{\circ}\text{C}$ , high res. $0.00003^{\circ}\text{C}$	$0.01^{\circ}\text{C}$ , high res. $0.00018^{\circ}\text{C}$	
Display Temperature Resolution	$0.01^{\circ}\text{C}$		
Digital Setting Accuracy	$\pm 1^{\circ}\text{C}$		
Digital Setting Repeatability	$\pm 0.005^{\circ}\text{C}$	$\pm 0.01^{\circ}\text{C}$	
Heaters	250 to 1000 W	250 to 1000 W	225 to 1800 W
Working Area	7" dia. (178 mm)	7.7" dia. (196 mm)	4.2" dia. (107 mm)
Depth	24" (610 mm) deep, 7" dia., removable polycarbonate cover	24" deep (610 mm), 7.7" dia., removable SST lid	17" deep (432 mm), 4.2" dia., removable SST lid, special viewing channel for LIG sighting
Wetted Parts	304 stainless steel		
Power	230 VAC ( $\pm 10\%$ ), 50 or 60 Hz, 14 A, 3100 W (Specify frequency, contact Hart if CE mark required.)	230 VAC ( $\pm 10\%$ ), 50/60 Hz, 10.7 A, 2500 W	230 VAC ( $\pm 10\%$ ), 50/60 Hz, 7.8 A, 1800 W
Volume	11.1 gallons (42 liters)	13.2 gallons (50 liters)	5.2 gallons (19.8 liters, 95 lb. of bath salt)
Size	18.5" D x 30.5" W x 47" to working surface, 55" to top of stir motor, 36" to control panel	22.5" D x 30" W x 48" to working surface, 56" to top of stir motor box, 36" to control panel	22.5" D x 30.5" W x 48" to working surface, 60" to top of stir motor box, 36" to control panel
Distance from Line of Sight to Top of Fluid	$3/8$ "	$5/8$ "	
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 automaton package.		

Baths



Model 2018 carousel for protecting your glass thermometers.

