

RESISTOR BATHS



Baths

Resistor Baths

Models 7008, 7015, and 7009

Three size options for any quantity of resistors

Stability to $\pm 0.0007^{\circ}\text{C}$

Independent high- and low-temperature cutout circuit

Minimal long-term drift

Regardless of the size and number of standard resistors you have to maintain, Hart has a bath that will do the job for you. Choose one of the three models described here or call us for information on other sizes.

Like all Hart baths, these resistor baths have unbeatable stability and uniformity. No other baths limit long-term and short-term drift—as well as gradients—better than these baths. Hart's proprietary controller senses temperature changes as small as 0.00001°C . This controller is the industry's best-selling

temperature calibration controller for bath retrofits because it improves the stability of almost every other poorly performing bath. So why not buy the best to begin with?

Each bath can be delivered with any size resistor rack you want (a standard model is included with each bath), and the Model 7015 has several other special features that make your work easier. A new independent high- and low-temperature cutout provides maximum protection for your standard resistors and their calibration history.

Model 7015

The Model 7015 has a 95-liter tank and a temperature range of 0°C to 110°C . It's stable to $\pm 0.0007^{\circ}\text{C}$.

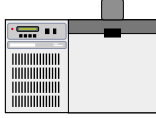
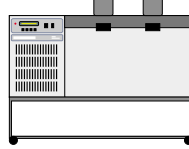
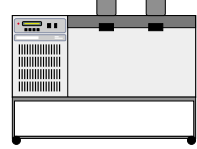
It has a one-piece stainless steel lid designed to drain spills and splashes back into the bath as you remove resistors. It has a large access opening to make handling large resistors, like the Thomas Design Standard resistors, easier. The tank has an electrically isolated resistor shelf.

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

Model 7008

This 44-liter bath has a range of -5°C to 110°C and a stability of $\pm 0.0007^{\circ}\text{C}$. It's available with an RS-232 port or IEEE. There are cart options and oil for any application on page 110.

Ranges from -5°C to 110°C

Specifications	7008	7015	7009
			
Range	-5°C to 110°C	0°C to 110°C	0°C to 110°C
Stability at 25°C	$\pm 0.0007^{\circ}\text{C}$ at 25°C (water) $\pm 0.001^{\circ}\text{C}$ at 25°C (oil)		
Uniformity	$\pm 0.003^{\circ}\text{C}$ at 25°C (water) $\pm 0.004^{\circ}\text{C}$ at 25°C (oil)	$\pm 0.003^{\circ}\text{C}$ at 25°C (water) $\pm 0.005^{\circ}\text{C}$ at 25°C (oil)	$\pm 0.005^{\circ}\text{C}$ at 25°C (water) $\pm 0.007^{\circ}\text{C}$ at 25°C (oil)
Temperature Setting	Digital display with push-button data entry		
Set-Point Resolution	0.002 $^{\circ}\text{C}$; high-resolution mode, 0.00003 $^{\circ}\text{C}$		
Display Resolution	0.01 $^{\circ}\text{C}$		
Digital Setting Accuracy	$\pm 1^{\circ}\text{C}$		
Digital Setting Repeatability	$\pm 0.01^{\circ}\text{C}$		
Heaters	500 and 1000 Watts		
Cooling Capacity	100 to 200 Watts		
Access Opening	12.75" x 7.25" (324 x 184 mm)	27.5" x 11" (699 x 279 mm)	29" x 22" (737 x 559 mm)
Bath Chamber Dimensions (unobstructed space)	14.25" W x 10.75" H x 13" D (1991 cubic inches)	27.5" W x 11" H x 13" D (3933 cubic inches)	27.5" W x 22" H x 13" D (7865 cubic inches)
Depth	13" (331 mm)		
Wetted Parts	304 stainless steel		
Safety Cutout	Factory-set high and low temperatures		
Power	115 VAC ($\pm 10\%$), 60 Hz, 15 A or 230 VAC, 50 Hz, 8 A, specify, 1700 W		230 VAC ($\pm 10\%$), 50 or 60 Hz, 12 A, 2600 W (specify frequency)
Volume	11.2 gallons (42 liters)	25 gallons (95 liters)	44 gallons (167 liters)
Weight	135 lb. (61 kg)	310 lb. (141 kg)	330 lb. (150 kg)
Size	24" H x 30.5" W x 19" D (610 x 775 x 483 mm)	48" H x 44" W x 22" D (1219 x 1118 x 559 mm)	43" H x 44.5" W x 34" D (1092 x 1130 x 864 mm)
Automation Package	Interface- <i>it</i> software and RS-232 computer interface are available for setting the bath temperature via an external computer. For IEEE-488, add the 2001-IEEE to the automation package.		

Model 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 110°C and a stability of $\pm 0.0007^{\circ}\text{C}$.

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.

Ordering Information

7008	Resistor Bath	2001-IEEE	Add for IEEE-488 (requires Automation Package)
7015	Resistor Bath		
7009	Resistor Bath	5011	Mineral Oil, 5 gal.
2001-7008	Automation Package for 7008	2073	Floor Cart with Casters (7008)
2001-7015	Automation Package for 7015		(7009 and 7015 baths include floor carts.)
2001-7009	Automation Package for 7009		



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



See our selection of bath fluids on page 110.