

ULTRASONIC CLEANERS



- ✓ *I remove grease, dust or other contaminants from surfaces/cavities of small objects, parts & samples*
- ✓ *I do not scratch surface or harm objects like other cleaners*

- High powered transducer generates thousands of minute cleansing bubbles which vibrate at a very high electrical frequency
- Vibrations above ultrasonic frequency level causes bubbles to explode and generate strong power, cleaning surfaces and cavities of hard-to-clean objects
- Operates quietly and is powered by AC 100/120V
- 1 YEAR WARRANTY

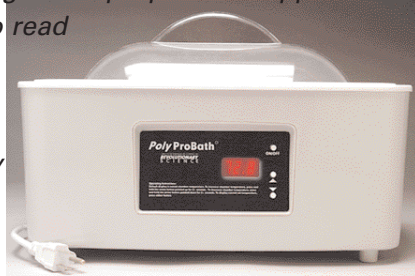
109490 Also Features

- 5 pre-programmed timing cycles with the remaining count-down time shown on a large bright LED
- Cooling fan enables prolonged operation without overheating
- Dipping basket included

Specifications:	109490	102889
Tank Capacity:	1 qt. (1000 ml)	1/2 qt. (600ml)
Output Power:	60 Watts	35 Watts
Timers:	5 Pre-programmed cycles	3 mins.
Tank Dims. (HxWxD):	7" x 5 1/2" x 2"	2.5" x 6.5" x 3.5"
Weight:	3.8 lbs.	2lbs.
Cat. No.	Description	Price
M109490	High Power Ultrasonic Cleaner	\$207.00
M102889	Mini Ultrasonic Cleaner	132.41

POLY PRO BATH

- ✓ *Buy me because*
- ✓ *I am ideal for all general-purpose lab applications*
- ✓ *I have an easy to read digital display*
- Chemical resistant and easy to clean PP chamber
- 2 YEAR WARRANTY



Specifications:

Capacity:	5.5 liters
Temp. Range (Heating):	Ambient to 99°C
Precision:	Display and internal temp uniformity ±0.5°C
Display:	3 digit, 0.1°C increments
Temp controller:	Digital microcomputer
Power:	120 VAC, 60 Hz, 150 W, 1.3 A
Cover:	Impact resistant, see-through polymer cover
Outside Dim. (WxDxH) (in.):	15.75 x 9.875 x 6.75
Inside Dim. (WxDxH) (in.):	12.625 x 6.75 x 5.25

Cat. No.	Description	Price
M108297	Poly Pro Bath	\$450.90

VALUE WATER BATHS

- ✓ *Buy me because*
- ✓ *I am ideal for teaching laboratories and routine testing procedures*
- ✓ *I have a PP tank that minimizes corrosion*



- Analog thermostat graduated in 5°C increments
- Outer case with heater and sensors under a perforated bottom tray within tank
- Comes with a thermometer clip
- 3 YEAR WARRANTY

Grant

Specifications:

Temp. Range (°C):	Ambient +5 to 90°C
Temp. Stability:	± 0.3°C
Display Resolution:	Analog

Value Baths	Cap. (L)	Tank (LxWxD) (in)	Price
M102368	3.5	11.5 x 4.75 x 3.25	\$781.56
M102370	10	16.25 x 9.5 x 3.25	938.96
M102372	16	12 x 11 x 5.5	1,073.56
M102374	24	19 x 11 x 5.5	1,134.35

Covers	Description	LxWxH (in)	Price
M102369	For 3.5L Bath	15 x 5 x 5	\$157.39
M102371	For 10L Bath	17 x 10.75 x 5	281.00
M102373	For 16L Bath	13.5 x 12.5 x 5	211.67
M102375	For 24L Bath	21 x 13 x 5	265.94

Polypropylene Spheres

PP spheres are an alternative to a lid; they minimize evaporation & heat loss, allow access to vessels in the bath, & are particularly useful for tall vessels (2.5 cm) 1" diameter. All Value Baths require 1 pk of Spheres, except 24L Model requires 2 packs.

Spheres	Description	Price
M100929	Polypropylene Spheres	\$103.12/300



MINI WATER BATH, 6 LITER



- 550W of heating power
- Pilot light indicates heating
- 1 YEAR WARRANTY

- ✓ **Buy me because**
- ✓ *I have a compact design and a stainless steel, seamless chamber with a gable cover and thermometer clip*

Specifications:

Chamber Capacity:	6 liter
Temperature Range:	Ambient +5°C to 100°C
Electrical:	120V, 50/60Hz, 4.8A
Exterior Dim. (W x D x H):	14 x 11 x 13 in.
Interior Dim.:	12.6 x 6.7 x 6.9 in.

Cat. No.	Description	Price
M107964	Mini Water Bath	\$560.00
M107966	Non-toxic, Teflon coated thermometer for -20° to 110°C with 1°C resolution, 305 mm long, 76 mm immersion	24.00

Note: Please call 1-800-684-1234 for rack sizes.

PRECISION® GENERAL PURPOSE WATER BATHS

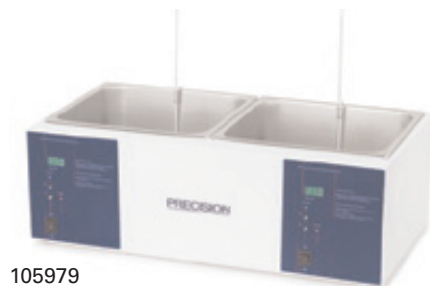


105967

- ✓ **Buy me because**
- ✓ *I have a seamless stainless steel, interior chamber and epoxy powder coated exterior that resists corrosion and chemical damage*
- ✓ *I have exceptional performance and am very reliable*

- Temp. uniformity at 37°C is ±0.2°C, and temp. sensitivity at 37°C is ±0.1°C
- Over-temperature safety circuitry prevents thermal runaway
- Comes complete with SS gable cover and diffuser shelf except **105965** and **105973** (105965 and 105973 have a polypropylene gable cover)
- Digital models feature LED display and a front mounted controls simplify user operation while analog models include a FREE THERMOMETER
- 1 YEAR WARRANTY

**Models 105971 & 105979 feature twin 12 Liter chambers*



105979

Cap. (L)	Temperature Range (C)	Chamber L x W x H (in)	Analog Cat. No.	Analog Price	Digital Cat. No.	Digital Price
1.5	Ambient to 95.0	6 x 11.5 x 2	M105964	\$598.00	M105972	\$745.00
2.5	Ambient to 99.9	6 x 5 x 6	M105965	614.00	M105973	788.00
5.5	Ambient to 99.9	11.5 x 6 x 6	M105966	723.00	M105974	908.00
12	Ambient to 99.9	11.5 x 12.5 x 6	M105967	812.81	M105975	1,060.00
19.5	Ambient to 99.9	14 x 12 x 8	M105968	1,021.00	M105976	1,250.00
18	Ambient to 99.9	19.5 x 11.5 x 6	M105969	1,076.00	M105977	1,353.00
43	Ambient to 99.9	16 x 28 x 6.5	M105970	1,522.00	M105978	1,810.00
12	Ambient to 99.9	11.5 x 12.5 x 6*	M105971*	1,609.00	M105979*	1,798.00

PREMIER DIGITAL WATER BATHS



- ✓ *Unstirred baths are ideal for general lab applications*
- ✓ *PID controller for easy temperature selection, rapid heat-up and excellent stability*

- Seamless stainless steel tank with rounded corners and includes a diffuser tray and shelf
- Adjustable, over temperature cutout for safety
- LED digital display is easily seen throughout the lab
- 3 YEAR WARRANTY

Cat. No.	Cap. (L)	Tank (L x W x D) (in.)	Price
M102376	6	6 x 11.75 x 5.5	\$1,367.73
M102377	14	12.75 x 11.75 x 5.5	1,611.96
M102378	28	20 x 11.75 x 7.5	1,894.19
M102379	36	25 x 11.75 x 7.5	2,333.82

Accessories

M105878*	Lid for M102376 (6 L)	\$206.24
M105879*	Lid for M102377 (14 L)	217.10
M105880*	Lid for M102378 (28 L)	249.66
M105881*	Lid for M102379 (36 L)	282.23
M100929*	Polypropylene Spheres	103.12/300

***Notes:** Lids or spheres should be used above 60°C. 28L units need 2 packs of spheres while the 36L unit needs 3 packs.

Specifications:

Temp. Range:	Ambient +5 to 99°C
Temp. Stability:	± 0.2°C
Display Resolution:	0.1°C

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GD120 SERIES DIGITAL CONTROLLED STIRRED WATER BATH AND CIRCULATOR

- Simple-to-use rotor plus two keys provide access to the interactive interface for fast, accurate set-up
- Dual-position bridge plate increases visibility and accessibility of thermostat
- Clear digital display - easy to read from a distance
- Visual and audible alarms alert you when attention is required
- Operating set point plus 3 adjustable preset temps. for convenience
- User calibration facility for optimum accuracy at the required operating temperature
- Low liquid protection by float switch
- User adjustable over temperature cut-out protects samples and the workplace
- Integral pump allows fluid to be circulated externally (tubing and connectors not included)
- Stainless steel tank
- 3 YEAR WARRANTY

✓ **Buy me because**
 ✓ *I offer accurate and safe temperature control!!!*



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Cat. No.	Description	Price
M110538	Digital Water Bath and Circulator	\$2,359.87
Accessories		
M100929	Polypropylene Spheres***	\$103.12/300
M110539	Stainless Steel Lid for M110538 ***	265.95

***Notes: Between operating temperatures 60°C and 100°C and below room temperature a lid or layers of polypropylene spheres should be used. Above 100°C a lid must be used.

Specifications:

Capacity:	12 L
Max. Cooling/Heating:	0 to 120°C
Stability:	±0.02°C
Thermostat:	Optima™ Digital Thermostat
Timer:	0 to 9999 mins.
Tank Dims. (LxWxH):	12.8 x 11.8 x 5.9 in.

DIGITAL DRY BLOCK HEATING SYSTEM, 2 BLOCK

✓ **Buy me because**
 ✓ *I am a versatile general purpose system with 2 removable/interchangeable blocks!!!*
 ✓ *I have a comprehensive specification to suit most dry block heating applications in the laboratory!!*

- Digital temperature control for optimum precision
- High powered heater for rapid heat-up time
- Variable high and low temperature alarms
- 1- or 2-point calibration
- Simple-to-use rotor plus 2 keys provide access to interactive interface for fast, accurate set-up
- Compact footprint and sloping fascia optimizes bench space and ensures clear visibility during set-up and use
- High quality robust construction in streamlined cool wall aluminum and chemical-resistant plastic
- Optional external probe for accurate temperature control in a tube and optional safety cover
- Block extraction tool included
- 3 YEAR WARRANTY

* Blocks sold separately

Cat. No.	Description	Price
M110541	Digital Dry Block Heating System; 2 Block	\$1,221.18
Accessories		
M110542	External Standard Probe	\$103.12
M110543	Clear Polycarbonate Safety Covers	168.25

** For a list of sizes of Interchangeable Blocks for this unit, please give us a call at 1-800-684-1234



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Specifications:

Capacity:	Two 140 x 50 x 63 mm blocks
Temperature Range:	Ambient +5° to 130°C
Temperature Setting Range:	15 to 130°C
Setting Resolution:	0.1°C
Uniformity	
Within the Block @ 37°C:	±0.1°C
Across Similar Blocks @ 37°C:	±0.2°C
Heat-up Time (25°C to 100°C):	15 mins.
Reaction Timer w/ Buzzer:	1 min. to 72 hours
Dims. (HxDxW):	3.9 x 11 x 7.9 in.

SHAKING WATER BATHS

√ **Buy me because**

- √ I combine high precision temperature control with a robust high quality shaking mechanism that works smoothly and consistently in demanding laboratory applications.
- √ I offer a simple, safe and versatile solution for linear shaking applications in the laboratory!!!

- Magnetic shaking mechanism for max. reliability, consistency & quiet operation
- Precision digital temperature control
- Adjustable shaking speed
- Stainless steel tank with smooth lines - easy to clean and keep clean
- 3 YEAR WARRANTY



M110544

- Combined linear/orbital shaking bath for supreme flexibility w/ easy changeover
- Adjustable stroke length for linear shaking
- Can be operated below ambient to 0°C with accessory cooling

M110545

- Unique 'Navigator' rotor makes set-up of temperature, shaking speed and other functions quick and easy
- Grant's Intelligent Control Optimization™ (ICO) ensures accurate and precise real time adaptive PID temperature control for varying liquid volumes
- Fixed cut out over temperature / low liquid level
- Variable high temperature alarm setting with timer

Specifications:	M110544	M110545
Min. Working Volume:	9 Liters	
Temp. Range:	0° to 99°C	ambient +5° to 99°C
Uniformity/Stability @ 37°C:	±0.1°C	
Temp. & Shaking Setting/Display:	Digital / 3-digit LED	
Temp. Display Resolution:	0.1°C	
Shaking Speed Range	Orbital:	N/A
	Linear:	40 to 400 strokes/min.
Orbital Shaking Radius:	9 rpm	N/A
Linear Shaking Stroke Length:	18, 28, 36 mm	18 mm
Tank Dims. (LxWxD):	505 x 300 x 200 mm	
Shaking Tray Dims.:	375 x 235 mm	
Unit Dimensions (HxDxW):	300 x 555 x 325 mm	370 x 560 x 330 mm

Cat. No.	Description	Price
M110544	Combined Orbital/Linear Shaking Bath	\$4,336.57
M110545	Linear Shaking Bath	4,010.92

Accessories

M110546	Sloping Lid* for Both Models	\$265.95
M105561	Universal Flask Tray for M110544	349.53
M110547	Universal Flask Tray for M110545	341.93
M110548	Immersion Cooler***	2,876.57

*Sloping Lid directs condensation to the edges of the bath to prevent dripping on flasks. Used above 60°C & below room temp.

***Note: Accessory cooling is required for operation around or below room temperature for M110544.

Please call us at 1-800-684-1234 for test tube racks