

## Precision Water Baths



Exceptional performance and reliability  
for laboratory applications

# Value, Performance and Reliability

Thermo Electron's Precision Water Baths provide exceptional performance and reliability for your laboratory applications. With a 50-year history of providing quality and value, the Precision name is trusted by the world's leading scientists for their clinical and research needs. Available in a variety of models and capacities, all Precision Water Baths can be equipped with a broad range of accessories to support your specific application requirements.



## Applications

	General Purpose	Circulating		Shaking		Steaming
	Models 180 and 280 Series	Models 260, 265, 270	Coliform	Models 25 & 50	Dubnoff and Shallow Form	4-Hole and 8-Hole
Bacteriological Examinations	■	■	■	■	■	
Coagulation Tests	■	■		■		
Coliform Determinations		■	■	■		
Copper Strip Corrosion Tests	■	■			■	■
Crude Oil Studies	■	■				
Cytochemistry	■	■			■	
Dialysis					■	
Demulsibility Studies	■	■				
Enzyme Studies		■			■	
Electrophoresis Gel Destaining				■		
Environmental Studies	■	■	■	■	■	
Food Processing QC	■	■	■	■		
Genetic Studies	■	■		■	■	
Hormone Studies	■	■		■	■	
Immunological Research	■	■		■	■	
Incubation for Microbiological Assays	■	■	■	■		
Incubation for Microcentrifugation Tubes	■				■	
Melting Agar	■					■
Metallurgical Analysis	■	■		■	■	■
Molecular Biology	■	■		■	■	
Protein Analysis	■	■				
Radioactive Isotope Uptake Studies	■	■		■	■	
Radiochemistry	■	■		■		
Serological Research	■	■		■	■	
Thawing	■	■		■	■	
Thawing Blood	■	■		■	■	
Thawing Cryopreservation Vials	■				■	
Tissue Culture Research	■	■		■	■	
Virology Research	■	■		■	■	
Warming Reagents	■	■				
Water Quality Research	■	■	■	■	■	

# Precision Shallow Form Reciprocal Shaking Baths

## Features

- Microprocessor control with digital LED display and shaker control
- Adjustable shaking speed from 30 to 200 OPM
- Push-button convenience for entry of temperature and shaking speed
- Over-temperature protection capability
- Automatic motor shut-down capability
- One-piece, easy-to-remove tray for easy use and maintenance
- Free stainless-steel gable cover included
- Meets ASTM Method E 715 Class IIA standards
- UL listed (120 V)
- CE marked (230V)
- Optional O<sub>2</sub>/N<sub>2</sub>/CO<sub>2</sub> flowmeter
- Optional gassing hoods
- Free Duck!



Precision Shallow Form Shaking Bath with optional thermometer

Precision's Shallow Form Reciprocal Shaking Baths have a capacity of 14.5 liters (3.9 gallons), however the removable tray provides a depth of only 3.5 inches (8.9 cm) for use with smaller sample containers. This bath can be equipped with optional 3-gas (oxygen, nitrogen, and CO<sub>2</sub>) flowmeter and gassing hoods.

## Specifications

Model	Shallow Form Shaking Bath
<b>Chamber Capacity</b> <sup>1</sup>	3.9 gallons (14.5 liters)
<b>Maximum Temperature</b> <sup>2</sup>	99.9°C
<b>Temperature Uniformity at 37°C</b>	±0.05°C
<b>Temperature Sensitivity</b>	±0.05°C
<b>Oscillation per Minute</b>	30 to 200
<b>Stroke Length</b>	0.5 to 1.5 in. (1.3 to 3.8 cm)
<b>Dimensions (L x W x H)</b>	
Chamber	12 x 15 x 7.5 in. (30.5 x 38.1 x 19 cm)
Removable Tray	11.5 x 11 x 3.5 in. (29.2 x 27.9 x 8.9 cm)
Exterior	14 x 24.5 x 9.5 in. (35.6 x 62.2 x 24.1 cm)
<b>Electrical Specs (50/60Hz)</b>	
120V	1000 Watts 8.3 Amps
230V	1000 Watts 4.3 Amps
<b>BTU Output</b>	3415
<b>Shipping Data</b>	
Dimensions	17 x 28.5 x 16.5 in. (43.2 x 72.4 x 41.9 cm)
Weight	55 lbs. (24.9 kg)
Volume	5.1 cu. ft. (0.14 cu. meters)
<b>Catalog Number</b>	
120V (UL listed)	51221079
230V <sup>3</sup> (CE marked)	51221078

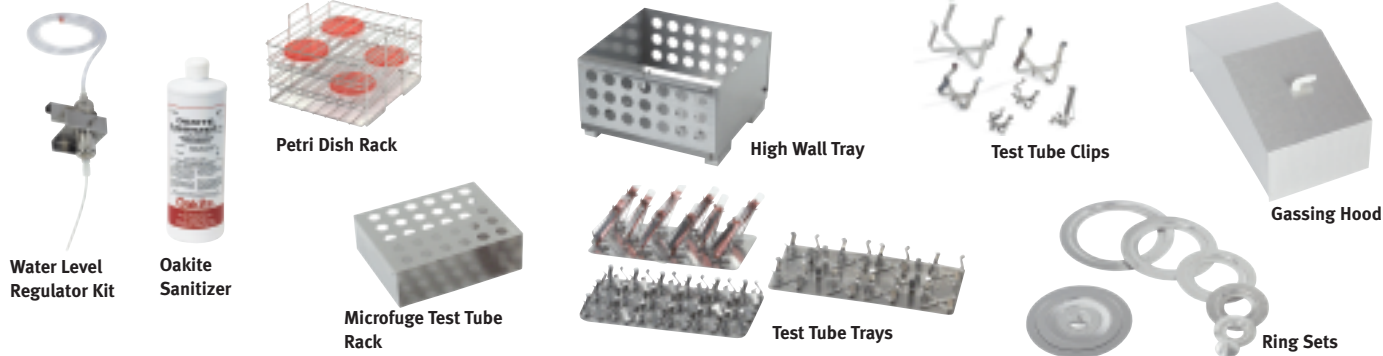
1. Filled 3.5" (89 mm) from top of chamber

2. With gable cover

3. 50/60 Hz (Includes European style 50 Hz power cord; standard 220V 60 Hz power cord available separately. Part number 34400001)

See water bath accessories on back cover.

# Complete Controlled Environment Solutions



## Ordering Information

### For General Purpose and Circulating Baths

#### Water Level Regulator Kit

Adjustable float valve automatically opens when the water level in the bath falls below preset limits to keep the bath full. Valve and float are mounted on a removable bonnet for easy maintenance and service. Kit includes 6 ft. (1.8 meters) 1/4 in. I.D. Tygon tubing, nylon fittings, clamps, and adjustable mounting bracket.

Description	Cat. No.
Regulator Kits for Steaming Water Baths	51200832
For Circulating, Reciprocal Shaking, and Coliform Baths	51200844

#### Sample Racks

Stainless Steel Racks hold Petri dishes or test tubes.

Description	Cat. No.
Petri Dish Rack Measures 9 3/4 x 8 3/4 x 6 1/4 in. (248 x 222 x 159 mm). Holds 80 50mm Petri dishes or 30 90mm Petri dishes	51200804
Test Tube Rack Measures 10 x 8 1/2 x 5 1/2 in. (254 x 216 x 140 mm). Openings are 1 in. (25mm) square. Holds 50 test tubes up to 25mm from 97 to 150mm high	34002581

#### Oakite Sanitizer

Description	Cat. No.
A safe yet effective quaternary ammonium type germicide and disinfectant. 1 quart (0.946 liter)	51200912

#### Glass Thermometers

Non-hazardous glass thermometers read in 1.0°C increments.

Description	Cat. No.
Model 180 and 280 General Purpose Baths, 0°C to 105°C, 6.5 in. (165 mm) long	34307058
All other Precision 180 and 280 Series General Purpose Baths. 0°C to 100°C, 12 in. (305 mm) long	34307059
All Circulating and Shaking Water Baths, 1.0°C increments, 12 in. (305 mm) long	34307059

**\*All thermometers are for monitoring purposes only!**

### For Reciprocal, Shaking, Shallow Form and Dubnoff Baths

#### Gassing Hood

For use with Dubnoff and Shallow Form Shaking Baths. Permits control over the atmosphere surrounding the sample. Also improves temperature uniformity and reduces energy consumption. Polished stainless steel with plastic gas fitting. Each bath will accommodate 1 large hood or 2 small hoods.

Description	Cat. No.
Small (5.6 x 11.35 in.)	34380301
Large (11.21 x 11.35 in.)	34380302

#### Oxygen/Nitrogen/CO2 Flowmeter

For use with Dubnoff and Shallow Form Shaker Baths. Independent controls regulate flow of gas to sample environment. Permits flow rates from 0 to 10 CFH (0 to 4719 cc/minute)

Description	Cat. No.
Flowmeter	51200802

#### Microfuge Test Tube Rack

For use with Shallow Form or Dubnoff baths; requires Clip Fastener. Measures 5 x 4 x 1-1/2 in. (127 x 101 x 39 mm).

Description	Cat. No.
0.5 ml tubes (holds 63) (not shown)	51200805
1.5 ml tubes (holds 30)	51200806

#### Test Tube Tray

For use with Reciprocal, Dubnoff, and Shallow Form Shaking Baths. Measures 5 x 10.2 in. (12.7 x 25.9 cm).

Description	Cat. No.
Holds 10-13 to 25 mm test tubes	34002553

#### Flask Tray

For use in Reciprocal, Dubnoff, and Shallow Form Shaking Baths. Measures 5 x 10.2 in. (12.7 x 25.9 cm).

Description	Cat. No.
25ml flask (Holds 18 clips)	34002563
50ml flask (Holds 10 clips)	51200849

#### Test Tube Clips

For use in Reciprocal, Dubnoff, and Shallow Form Shaking Baths. Stainless steel. Each requires one fastener.

Description	Cat. No.
Holds 13 mm to 25 mm tube	51200837

### Flask Clips and Fasteners

For use in Reciprocal, Dubnoff, and Shallow Form Shaking Baths. Secure various size flasks to bath platform. Stainless steel. Each requires one fastener.

#### Flask Clip Capacities

Flask Vol.	Model 25, Shallowform, Dubnoff		Cat. No.
	Model 50	Model 50	
25ml	20	48	51200848
50ml	15	36	51200819
125ml	9	24	51200842
250ml	6	14	51220205
500ml	4	12	51200820
1000ml	2	5	51200821

Clip Fasteners (One required per flask clip or tube. Package of 25.) 51200810

#### High Wall Tray

Description	Cat. No.
For use with Precision Shallow Form, Dubnoff, and Shaking Bath Model 25 (11.25 x 12.5 x 7.5 in.)	34542813
For use with Precision Shaking Bath Model 50. (11.25 x 24 x 7.5 in.)	34542814

### For Steaming Baths

#### Ring Sets

For Steaming Baths. Stainless Steel ring sets nest smoothly and become progressively larger as rings are removed.

Description	Cat. No.
4 in. (100mm)	51200807
5 in. (125mm)	51200808
6 in. (150mm)	51200836

#### Concentric Ring Cover

Stainless steel cover converts the Model 184 or 284 Utility Bath for use as a steaming bath. Five openings (3 small, 2 large) accommodate glassware ranging in diameter from 4/5 to 4 in. in 1 in. (2 to 10 cm) increments. Openings enlarge as rings are removed.

Description	Cat. No.
Concentric Ring Cover	34002532

#### Gable Covers

Replacement Gable Covers are available. Contact your Thermo representative for details.

For more information, please contact us:

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