

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 Concentric Ring Electrical Steaming Baths

Features

- 4- and 8-hole models enlarge from 7/8 inch to maximum opening diameters of 5 and 6 inches respectively
- Copper-clad immersion heaters provide bath temperatures up to 100°C
- Easy-to-operate with a 4-position switch and 3 different heat settings
- Adjustable water level regulator maintains bath depth at the desired level
- Stainless-steel cabinets with flanged cabinet top for table-top installations
- Rugged epoxy-coated, corrosion-resistant stand
- Accommodates most laboratory glassware



Precision Concentric Ring Electrical Steaming Baths

Precision Concentric Ring Electrical Steaming Baths are designed to gently warm samples, make concentrates, and melt solids such as agar. Available in both 4-opening and 8-opening models, they accommodate various sizes of glassware and evaporating dishes, including round-bottom flasks. Flange-formed stainless-steel rings nest smoothly and become progressively larger as each concentric ring is removed. Copper-clad immersion heaters provide bath temperatures up to 100° C. These baths require hardwire installation by a qualified electrician and need to be hooked up to a continuous water source.

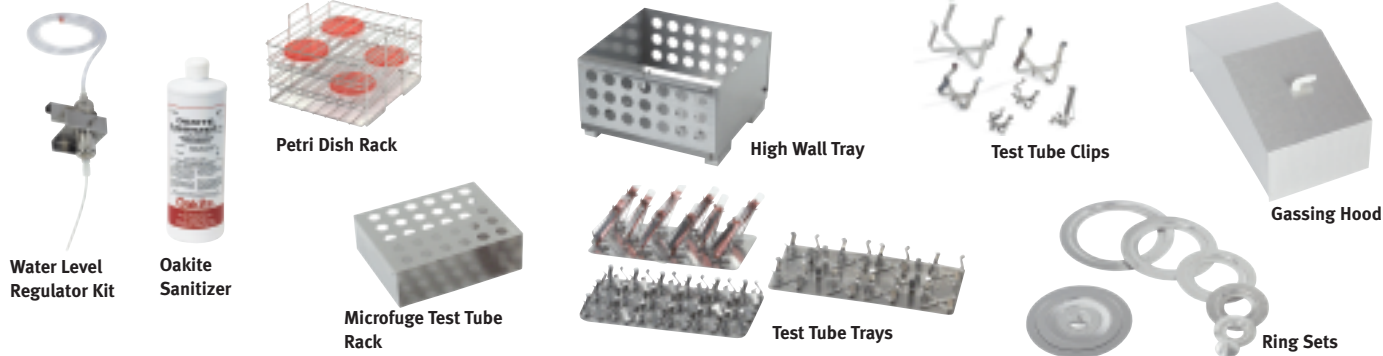
Specifications

Models	4-Hole Steaming Bath	8-Hole Steaming Bath
Maximum Temperature	100°C	100°C
Time to reach 100°C	63 minutes	65 minutes
Heater Settings		
Low	275 W	500 W
Medium	550 W	1000 W
High	1100 W	2000 W
Minimum Opening Diameter (with cover removed)	7/8 in. 22 mm	7/8 in. 22 mm
Minimum Opening Diameter (all rings removed)	5 in. 125 mm	2 at 4 in. / 100mm 4 at 5 in. / 125mm 2 at 6 in. / 150mm
Dimensions (L x W x H)¹		
Without Support Stand	15 x 15 x 4 in. (38.1 x 38.1 x 10.2 cm)	15.5 x 29 x 4.5 in. (39.4 x 73.7 x 11.4 cm)
With Support Stand	15 x 15 x 13 in. (38.1 x 38.1 x 33.0 cm)	15.5 x 29 x 13.5 in. (39.4 x 73.7 x 34.3 cm)
Electrical Specs (50/60Hz)		
120V	1100 Watts 9.2 Amps	2000 Watts 16.7 Amps
230V	1100 Watts 4.6 Amps	2000 Watts 8.3 Amps
BTU Output	3757	6830
Shipping Data		
Dimensions (L x W x H)	20.5 x 20.5 x 21 in. (52.1 x 52.1 x 53.3 cm)	25 x 34.5 x 15.5 in. (63.5 x 87.6 x 39.6 cm)
Weight	20 lbs (9.1 kg)	30 lbs (13.6 kg)
Volume	5.1 cu. ft. (0.14 cu. meters)	7.7 cu. ft. (0.22 cu. meters)
Catalog Number		
120V	51220041	51220042
230V ²	51220202	51220043

1. Water regulator adds 2.5 in. (63.5 mm) to exterior width of 4-hole bath and exterior length of 8-hole bath.
2. 50/60 Hz

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:

ExpotechUSA

10700 Rockley Road

Houston, TX -77099

USA

Phone: 281.496.0900

Fax: 281-496-0400

E-mail: sales@ExpotechUSA.com

Website: www.ExpotechUSA.com