

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 General Purpose Water Baths

Features:

- Easy-to-maintain, seamless stainless-steel interior chamber and epoxy powder-coated exterior resist corrosion and chemical damage
- Free stainless-steel diffuser shelf
- Free stainless-steel gable cover, all baths except Models 181/281
- Models 181/281 come with a polypropylene gable cover
- Choice of analog or digital temperature control
- Free thermometer on analog models
- Eight sizes. Choose chamber capacities ranging from 1.5 to 43 liters
- Over-temperature safety circuitry prevents thermal runaway
- Front mounted controls simplify operation
- UL listed (120 V)
- CE marked (230V)
- A free duck in every bath!

Specifications

Models	180	280	181	281
Chamber Capacity¹	0.4 gallon / 1.5 liters	0.4 gallon / 1.5 liters	0.7 gallon / 2.5 liters	0.7 gallon / 2.5 liters
Temperature Display	0° to 100° C (Thermometer)	0° to 100° C (Digital LED)	0° to 100° C (Thermometer)	0° to 100° C (Digital LED)
Maximum Temperature²	95.0°C	95.0°C	99.9°C	99.9°C
Temperature Uniformity	±0.2°C at 37°C	±0.2°C at 37°C	±0.2°C at 37°C	±0.2°C at 37°C
Temperature Sensitivity	±0.1°C at 37°C	±0.1°C at 37°C	±0.1°C at 37°C	±0.1°C at 37°C
Dimensions (L x W x H)				
Chamber	6 x 11.5 x 2 in. (15.2 x 29.2 x 5.1 cm)	6 x 11.5 x 2 in. (15.2 x 29.2 x 5.1 cm)	6 x 5 x 6 in. (15.2 x 12.7 x 16.2 cm)	6 x 5 x 6 in. (15.2 x 12.7 x 16.2 cm)
Exterior without cover	8.9 x 14 x 6.7 in. (22.3 x 35.6 x 17.1 cm)	8 x 14 x 6.7 in. (20.3 x 35.6 x 17.1 cm)	9.75 x 8 x 9.7 in. (27.1 x 20.3 x 24.8 cm)	9.75 x 8 x 9.7 in. (24.8 x 20.3 x 24.8 cm)
Electrical Specs (50/60Hz)				
120V	225 Watts (2.0 Amps)	225 Watts (2.0 Amps)	225 Watts (2.0 Amps)	225 Watts (2.0 Amps)
230V	225 Watts (1.0 Amps)	225 Watts (1.0 Amps)	225 Watts (1.0 Amps)	225 Watts (1.0 Amps)
BTU Output	768	768	768	768
Shipping Data				
Dimensions (L x W x H)	12.25x19.25x12.25 in. (31.1 x 48.9 x 31.1 cm)	12.25x19.25x12.25 in. (31.1 x 48.9 x 31.1 cm)	12.25x13.75x12.25 in. (31.1 x 34.9 x 31.1 cm)	12.25x13.75x12.25 in. (31.1 x 34.9 x 31.1 cm)
Weight	12 lbs (5.4 kg)	12 lbs (5.4 kg)	12 lbs (5.4 kg)	12 lbs (5.4 kg)
Volume	1.6 cu. ft. (0.05 cu. meter)	1.6 cu. ft. (0.05 cu. meter)	1.2 cu. ft. (0.03 cu. meter)	1.2 cu. ft. (0.03 cu. meter)
Catalog Number				
120V (UL listed)	51221070	51221044	51221064	51221046
230V ³ (CE marked)	51221071	51221045	51221211	51221047

Models	182	282	183	283
Chamber Capacity¹	1.5 gallon / 5.5 liters	1.5 gallon / 5.5 liters	3.2 gallon / 12 liters	3.2 gallon / 12 liters
Temperature Display	0° to 100° C (Thermometer)	0° to 100° C (Digital LED)	0° to 100° C (Thermometer)	0° to 100° C (Digital LED)
Maximum Temperature²	99.9°C	99.9°C	99.9°C	99.9°C
Temperature Uniformity	±0.2°C at 37°C	±0.2°C at 37°C	±0.2°C at 37°C	±0.2°C at 37°C
Temperature Sensitivity	±0.1°C at 37°C	±0.1°C at 37°C	±0.1°C at 37°C	±0.1°C at 37°C
Dimensions (L x W x H)				
Chamber	11.5 x 6 x 6 in. (29.2 x 15.2 x 15.2 cm)	11.5 x 6 x 6 in. (29.2 x 15.2 x 15.2 cm)	11.5 x 12.5 x 6 in. (29.2 x 31.7 x 15.2 cm)	11.5 x 12.5 x 6 in. (29.2 x 31.7 x 15.2 cm)
Exterior without cover	16.2 x 8 x 9.75 in. (41.0 x 20.3 x 24.8 cm)	15.25 x 8 x 9.75 in. (38.7 x 20.3 x 24.8 cm)	16.2x14.75x 9.75 in. (41.0 x 37.5 x 24.8 cm)	15.25 x 14.75 x 9.75 in. (38.7 x 37.5 x 24.8 cm)
Electrical Specs (50/60Hz)				
120V	300 Watts (2.5 Amps)	300 Watts (2.5 Amps)	400 Watts (3.3 Amps)	400 Watts (3.3 Amps)
230V	300 Watts (1.3 Amps)	300 Watts (1.3 Amps)	400 Watts (1.75 Amps)	400 Watts (1.75 Amps)
BTU Output	1025	1025	1366	1366
Shipping Data				
Dimensions (L x W x H)	19.25 x 12.25 x 12.25 in. (48.9 x 31.1 x 31.1 cm)	19.25 x 12.25 x 12.25 in. (48.9 x 31.1 x 31.1 cm)	20.5 x 18 x 12.75 in. (52.1 x 45.7 x 32.4 cm)	20.5 x 18 x 12.75 in. (52.1 x 45.7 x 32.4 cm)
Weight	16 lbs (7.3 kg)	16 lbs (7.3 kg)	20 lbs (9.1 kg)	20 lbs (9.1 kg)
Volume	1.6 cu. ft. (0.05 cu. meter)	1.6 cu. ft. (0.05 cu. meter)	2.7 cu. ft. (0.08 cu. meter)	2.7 cu. ft. (0.08 cu. meter)
Catalog Number				
120V (UL Listed)	51221073	51221048	51221060	51221050
230V ³ (CE marked)	51221068	51221049	51221062	51221051

1. Filled 1" (25 mm) from top of chamber

2. With gable cover

3. 50/60 Hz

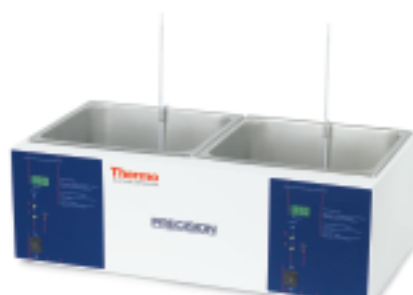
See water bath accessories on back cover.



Precision 281 Digital Water Bath with optional thermometer



Precision 183 Analog Water Bath



Precision 288 Digital Water Bath with optional thermometers

Specifications

Models	184	284	185	285
Chamber Capacity¹	5.2 gallon (19.5 liters)	5.2 gallon (19.5 liters)	4.9 gallon (18 liters)	4.9 gallon (18 liters)
Temperature Display	0° to 100° C (Thermometer)	0° to 100° C (Digital LED)	0° to 100° C (Thermometer)	0° to 100° C (Digital LED)
Maximum Temperature²	99.9°C	99.9°C	99.9°C	99.9°C
Temperature Uniformity	±0.2°C at 37°C	±0.2°C at 37°C	±0.2°C at 37°C	±0.2°C at 37°C
Temperature Sensitivity	±0.1°C at 37°C	±0.1°C at 37°C	±0.1°C at 37°C	±0.1°C at 37°C
Dimensions (L x W x H)				
Chamber	14 x 12 x 8 in. (35.6 x 30.5 x 20.3 cm)	14 x 12 x 8 in. (35.6 x 30.5 x 20.3 cm)	19.5 x 11.5 x 6 in. (49.5 x 29.2 x 15.2 cm)	19.5 x 11.5 x 6 in. (49.5 x 29.2 x 15.2 cm)
Exterior without cover	19.7 x 15.75 x 9.75 in. (49.9 x 40 x 24.8 cm)	18.75 x 15.75 x 9.75 in. (47.6 x 40 x 24.8 cm)	23.9 x 13.75 x 9.75 in. (60.7 x 34.9 x 24.8 cm)	23 x 13.75 x 9.75 in. (58.4 x 34.9 x 24.8 cm)
Electrical Specs (50/60Hz)				
120V	600 Watts (5.0 Amps)	600 Watts (5.0 Amps)	600 Watts (5.0 Amps)	600 Watts (5.0 Amps)
230V	600 Watts (2.6 Amps)	600 Watts (2.6 Amps)	600 Watts (2.6 Amps)	600 Watts (2.6 Amps)
BTU Output	2048	2048	2048	2048
Shipping Data				
Dimensions (L x W x H)	23.5 x 18 x 12.75 in. (59.7 x 45.72 x 32.4 cm)	23.5 x 18 x 12.75 in. (59.7 x 45.72 x 32.4 cm)	27.5 x 16.5 x 14.75 in. (69.9 x 41.9 x 37.5 cm)	27.5 x 16.5 x 14.75 in. (69.9 x 41.9 x 37.5 cm)
Weight	25 lbs (11.3 kg)	25 lbs (11.3 kg)	30 lbs (13.6 kg)	30 lbs (13.6 kg)
Volume	3.1 cu. ft. (0.09 cu. meter)	3.1 cu. ft. (0.09 cu. meter)	3.9 cu. ft. (0.11 cu. meter)	3.9 cu. ft. (0.11 cu. meter)
Catalog Number				
120V (UL listed)	51221075	51221052	51221065	51221054
230V ³ (CE marked)	51221069	51221053	51221066	51221055

1. Filled 1" from top of chamber
2. With gable cover
3. 50/60 Hz

Models	186	286	188 (Dual chamber)	288 (Dual chamber)
Chamber Capacity¹	11.4 gallon (43 liters)	11.4 gallon (43 liters)	3.2 gallon ⁴ (12 liters)	3.2 gallon ⁴ (12 liters)
Temperature Display	0° to 100° C (Thermometer)	0° to 100° C (Digital LED)	0° to 100° C (Thermometer)	0° to 100° C (Digital LED)
Maximum Temperature²	99.9°C	99.9°C	99.9°C	99.9°C
Temperature Uniformity	±0.2°C at 37°C	±0.2°C at 37°C	±0.2°C at 37°C	±0.2°C at 37°C
Temperature Sensitivity	±0.1°C at 37°C	±0.1°C at 37°C	±0.1°C at 37°C	±0.1°C at 37°C
Dimensions (L x W x H)				
Chamber	16 x 28 x 6.5 in. (40.6 x 71.1 x 16.5cm)	16 x 28 x 6.5 in. (40.6 x 71.1 x 16.5cm)	11.5 x 12.5 x 6 in.1 (29.2 x 31.7 x 15.2cm)	11.5 x 12.5 x 6 in.1 (29.2 x 31.7 x 15.2cm)
Exterior without cover	21.6 x 31.5 x 9.75in. (55.0 x 80 x 24.8cm)	20.7 x 31.5 x 9.75in. (52.7 x 80 x 24.8cm)	16.1 x 29 x 9.75in. (41.0 x 73.7 x 24.8cm)	15.2 x 29 x 9.75in. (38.7 x 73.7 x 24.8cm)
Electrical Specs (50/60Hz)				
120V	1200 Watts (10.0 Amps)	1200 Watts (10.0 Amps)	800 Watts (6.7 Amps)	800 Watts (6.7 Amps)
230V	1200 Watts (5.2 Amps)	1200 Watts (5.2 Amps)	800 Watts (3.5 Amps)	800 Watts (3.5 Amps)
BTU Output	4095	4095	2732	2732
Shipping Data				
Dimensions (L x W x H)	24 x 36.25 x 18 in. (61 x 92.1 x 45.7cm)	24 x 36.25 x 18 in. (61 x 92.1 x 45.7cm)	18 x 34 x 12.75 in. (45.7 x 86.4 x 32.4cm)	18 x 34 x 12.75 in. (45.7 x 86.4 x 32.4cm)
Weight	56 lbs (25.4 kg)	56 lbs (25.4 kg)	40 lbs (18.1 kg)	40 lbs (18.1 kg)
Volume	9 cu. ft. (0.25 cu.meter)	9 cu. ft. (0.25 cu.meter)	4.5 cu.ft. (0.13 cu.meter)	4.5 cu.ft. (0.13 cu.meter)
Catalog Number				
120V (UL listed)	51221072	51221056	51221061	51221058
230V ³ (CE marked)	51221074	51221057	51221063	51221059

1. Filled 1" (25 mm) from top of chamber
2. With gable cover
3. 50/60 Hz
4. Each chamber

See water bath accessories on back cover.

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