



# Thermo Scientific Precision Water Baths

The ultimate in performance and reliability



# Precision Water Baths

A new generation to support your science

For decades, Thermo Scientific™ Precision™ Water Baths have brought outstanding performance and reliability to laboratories worldwide. Now they are setting a new standard in laboratory water baths, with enhanced designs and added features to help simplify workflows and maximize productivity.

With their rugged construction and advanced microprocessor technology, Precision Water Baths are a smart choice for your smart lab.

**Precision is compact** – Save valuable bench space with a smaller footprint on general purpose baths, compared to previous models.

**Precision is effortless** – Automatically preheat and turn off your bath for efficient work scheduling with new auto-on and auto-off timers.

**Precision is intuitive** – Simplify parameter setting and monitoring with new icon-based controller interface.

**Precision is safe** – Protect your work with safety features including audible alarm, adjustable digital over-temperature protection, low-level detection and high-temperature cut-offs.

**Precision is everywhere** – Access worldwide service and support when you need it, for added peace of mind. Additionally, global voltage input allows water baths to be used almost anywhere in the world for easy ordering.



All Precision Water Baths come with a Thermo Scientific rubber duck for approximately \$1.99, included in the total price.

# Applications



## Thermo Scientific Precision Water Baths

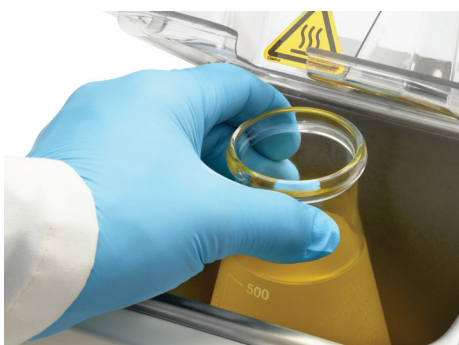
	General Purpose	Circulating	Coliform	Shaking	Dubnoff
Bacteriological Examinations	•	•	•	•	•
Coagulation Tests	•	•		•	
Coliform Determinations		•	•	•	
Copper Strip Corrosion Tests	•	•			•
Crude Oil Studies	•	•			
Cytochemistry	•	•			•
Dialysis					•
Demulsibility Studies	•	•			
Enzyme Studies		•			•
Electrophoresis 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	•	•		•	•
Radiochemistry	•	•		•	
Serological Research	•	•		•	•
Thawing	•	•		•	•
Thawing Cryopreservation Vials	•				
Tissue Culture Research	•	•		•	•
Virology Research	•	•		•	•
Warming Reagents	•	•			
Water Quality Research	•	•	•	•	•

# Thermo Scientific Precision General Purpose Water Baths

Precision General Purpose Water Baths are rugged, high performance baths that are designed to maintain water temperature from ambient to 100°C. Ideal for a wide range of lab applications, capacities range from 2L<sup>1</sup> to 28L, including shallow models. Over-temperature safety circuitry is designed to prevent thermal runaway, while new auto-on and auto-off timers allow you to optimize operation schedules. Benefit from outstanding chemical and corrosion resistance with epoxy powder-coated exterior, and easily clean the chamber with its seamless stainless-steel interior.



**Enhanced hinge design supports open lid configuration and easy lid removal.**



**Help prevent bath damage and overheating with low-fluid protection.**



**Simplify operation with quick disconnect drain and concealed drain hose on 10, 20, 28 L and dual models.**

## **Additional features:**

- Smaller footprint, compared to previous models, frees up valuable benchtop space
- Advanced microprocessor controller is designed for extended functionality
- Protect your work with audible alarms
- Conveniently save commonly used settings with four temperature presets
- Baths come with clear polycarbonate gable cover, diffuser tray, drain hose and rubber duck
- UL Listed and CE Marked; US FDA Class I Medical Device
- Includes a setting for thermal beads<sup>2</sup>



**Icon-based graphical display for easy operation and monitoring.**

<sup>1</sup> 2L is designed to maintain water temperature from ambient to 90°C.

<sup>2</sup> Thermal beads do not provide the same performance as water; see manual for additional instructions.

# Thermo Scientific Precision General Purpose Water Baths



GP 02 Water Bath



GP 2S Water Bath



GP 05 Water Bath



GP 10 Water Bath



GP 20 Water Bath



GP 28 Water Bath



GP 15D Water Bath

## Precision General Purpose Water Bath Specifications

Model	Cat. No.	Chamber Capacity	Temp. Range	Temperature Stability/Uniformity @37°C*	Work Area (L x W x H) in. (mm)	Overall Dimensions without Cover (L x W x H) in. (mm)	Global Voltage**	Heater Output†
GP 02	TSGP02	2 liter	Amb. to 90°C	±0.1°C / ±0.2°C	5.4 x 6.1 x 5.9 (138 x 155 x 150)	9.1 x 7.8 x 9.2 (230 x 199 x 233)	100-115V/200-230V, 50/60Hz	200W
GP 2S	TSGP2S	2 liter (Shallow)	Amb. to 100°C	±0.1°C / ±0.2°C	6 x 11.8 x 2.6 (153 x 300 x 65)	9.7 x 14 x 9.1 (246 x 355 x 232)	100-115V/200-230V, 50/60Hz	300W
GP 05	TSGP05	5 liter	Amb. to 100°C	±0.1°C / ±0.2°C	6.1 x 11.8 x 5.9 (154 x 300 x 150)	9.7 x 14 x 9.1 (246 x 355 x 232)	100-115V/200-230V, 50/60Hz	300W
GP 10	TSGP10	10 liter	Amb. to 100°C	±0.1°C / ±0.2°C	11.9 x 13 x 5.9 (301 x 330 x 150)	15.5 x 15.1 x 9.2 (393 x 383 x 233)	100-115V/200-230V, 50/60Hz	800W
GP 20	TSGP20	20 liter	Amb. to 100°C	±0.1°C / ±0.2°C	11.7 x 19.7 x 5.9 (297 x 500 x 150)	15.4 x 21.8 x 9.2 (392 x 555 x 233)	100-115V/200-230V, 50/60Hz	1200W
GP 28	TSGP28	28 liter	Amb. to 100°C	±0.1°C / ±0.2°C	11.7 x 19.7 x 7.9 (297 x 500 x 200)	15.4 x 21.8 x 11.1 (392 x 555 x 282)	100-115V/200-230V, 50/60Hz	1200W
GP 15D	TSGP15D	5 liter & 10 liter (Dual)	Amb. to 100°C	±0.1°C / ±0.2°C	See TSGP05 & TSGP10	15.4 x 23.1 x 9.2 (392 x 587 x 233)	100-115V/200-230V, 50/60Hz	300W & 800W

\*Uniformity and stability tests were performed with cover installed and ambient controlled to ±1°C.

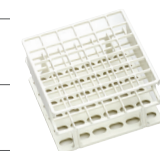
\*\* GP models come with N5-15 Plug.

† Heater output at 120V and 240V.

# Thermo Scientific Precision General Purpose Water Baths

## Accessories for Precision General Purpose Water Baths

Description	TSGP02	TSGPP2S	TSGP05	TSGP10	TSGP20	TSGP28	TSGP15D
Stainless Steel Gable Cover	GPSSL02	GPSSL05	GPSSL05	GPSSL10	GPSSL20	GPSSL20	GPSSL05 and GPSSL10
Concentric Ring Cover	–	–	–	1546230Q	1546231Q	1546231Q	–
Polycarbonate Gable Cover	TSGPACL02	TSGPACL05	TSGPACL05	TSGPACL10	TSGPACL20	TSGPACL20	TSGPACL05 and TSGPACL10
Stainless Steel Petri Dish Rack	–	–	–	–	3166183	3166183	–
Stainless Steel Test Tube Rack	–	–	–	–	3161601	3161601	–
Nalgene Test Tube Half Rack White 36 x 13 mm	5972-0013TC	5972-0013TC	5972-0013TC	5972-0013TC	5972-0013TC	5972-0013TC	5972-0013TC
Nalgene Test Tube Half Rack White 36 x 16 mm	–	5972-0016TC	5972-0016TC	5972-0016TC	5972-0016TC	5972-0016TC	5972-0016TC
Nalgene Test Tube Half Rack White 20 x 20 mm	–	5972-0020TC	5972-0020TC	5972-0020TC	5972-0020TC	5972-0020TC	5972-0020TC
Nalgene Test Tube Half Rack White 16 x 25 mm	–	5972-0025TC	5972-0025TC	5972-0025TC	5972-0025TC	5972-0025TC	5972-0025TC
Nalgene Test Tube Half Rack White 9 x 30 mm	–	5972-0030TC	5972-0030TC	5972-0030TC	5972-0030TC	5972-0030TC	5972-0030TC
Nalgene Test Tube Full Rack Red 72 x 13 mm	–	5970-0513TC	5970-0513TC	5970-0513TC	5970-0513TC	5970-0513TC	5970-0513TC
Nalgene Test Tube Full Rack Red 72 x 16 mm	–	–	5970-0516TC	5970-0516TC	5970-0516TC	5970-0516TC	5970-0516TC
Nalgene Test Tube Full Rack Red 40 x 20 mm	–	–	5970-0520TC	5970-0520TC	5970-0520TC	5970-0520TC	5970-0520TC
Nalgene Test Tube Full Rack Red 40 x 25 mm	–	–	5970-0525TC	5970-0525TC	5970-0525TC	5970-0525TC	5970-0525TC
Nalgene Test Tube Full Rack Red 24 x 30 mm	–	–	–	5970-0530TC	5970-0530TC	5970-0530TC	5970-0530TC
Hand Pump	102391	102391	102391	102391	102391	102391	102391
Replacement Diffuser Tray	102352	102353	102353	102354	102355	102355	102353 & 102354



## Nalgene Unwire Test Tube Half Rack

Thermo Scientific™ Nalgene™ Unwire™ test tube racks are ideal for use in all types of water baths. They are designed not to float or fade color.

Learn more at: [thermofisher.com/nalgeneracks](http://thermofisher.com/nalgeneracks)



# What is the ideal capacity of a Precision General Purpose Water Bath?

Below are recommended quantities of beakers, flasks and test tube racks to best fit into each model.

## Beakers and Flasks

Description	General Purpose Water Baths						
	TSGP02	TSGPP2S	TSGP05	TSGP10	TSGP20	TSGP28	TSGP15D
<b>Beakers (minimum spacing: 2.50 cm)</b>							
100 mL	1	3	3	12	18	18	15
150 mL	1	3	3	9	15	15	12
250 mL	1	2	2	6	8	8	8
400 mL	1	2	2	4	8	8	6
<b>Erlenmeyer Flasks (minimum spacing: 2.50 cm)</b>							
25 mL	1	4	4	16	28	28	20
50 mL	1	3	3	12	18	18	15
125 mL	1	2	2	9	10	10	11
250 mL	1	2	2	4	8	8	6
500 mL	0	2	2	4	6	6	6
1000 mL	0	0	0	1	3	3	1

## Test Tube Racks

Test Tube Diameter (mm)	Rack	Tubes/Rack	General Purpose Water Baths						
			TSGP02	TSGPP2S	TSGP05	TSGP10	TSGP20	TSGP28	TSGP15D
<b>How many racks fit in my bath?</b>									
13	5972-0013TC	36	1	2	2	6	8	8	8
16	5972-0016TC	36	0	2	2	4	6	6	6
20	5972-0020TC	20	0	2	2	4	8	8	6
25	5972-0025TC	16	0	2	2	4	6	6	6
30	5972-0030TC	9	0	2	2	4	8	8	6
13	5970-0513TC	72	0	1	1	3	4	4	4
16	5970-0516TC	72	0	1	1	2	3	3	3
20	5970-0520TC	40	0	1	1	3	4	4	4
25	5970-0525TC	40	0	0	0	2	2	2	2
30	5970-0530TC	24	0	1	1	2	4	4	3
<b>How many test tubes is that?</b>									
13	5972-0013TC	36	36	72	72	216	288	288	288
16	5972-0016TC	36	0	72	72	144	216	216	216
20	5972-0020TC	20	0	40	40	80	160	160	120
25	5972-0025TC	16	0	32	32	64	96	96	96
30	5972-0030TC	9	0	18	18	36	72	72	54
13	5970-0513TC	72	0	72	72	216	288	288	288
16	5970-0516TC	72	0	72	72	144	216	216	216
20	5970-0520TC	40	0	40	40	120	160	160	160
25	5970-0525TC	40	0	0	0	80	80	80	80
30	5970-0530TC	24	0	24	24	48	96	96	72



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