

T-series Specifications

- Tamson, bath and circulator -

T1000 / T2500 / T4500

- Tamson, 16, 40, 57 liters -

General

The "T" baths are used for very precise temperature control. This serie offers a choice in different bath-volumes. The insulation of the bath and electronic design result in very stable working temperature ($\pm 0,01K^\circ$), even better than ASTM D445. The bath comes standard with RS232 communication enabling remote control and remote temperature readout. The controller unit can be separated from the bath also allowing remote control.

Span

These baths can be operated from ambient + 5°C to 250°C (41°F..482°F). With the use of the built-in cooling coil the span lies $\pm 5^\circ K$ above the temperature of the cooling liquid. The TLC3 or TLC10B circulators can be used for cooling or rapidly bringing down the bath temperature. For this use the cryostat(KV40) can be used as well.

Accuracy

The setpoint can be set in steps of 0,1°K in the range of -100°K up to 199,9°K. From 199°K up to 250°K temperature can be set in steps of 1°K. The system overall accuracy is within $\pm 0,01^\circ K^*$.

Pump

A pump provides circulation in the bath. Two standard mounted terminals enable circulation of the bath-fluid in an external process. The pressure and capacity are well balanced to provide covering of most common applications for fluid circulation in combination with very stable temperature control.

Safety

Advanced safety features are microprocessor control of:

- Electronic- and uP-system
- Each of the 3 heating elements
- System accuracy

System error results in total cut-off from the power supply. The bath also is equipped with a mechanical adjustable and resettable safety thermostat. All these build-in features make the apparatus very reliable and well suited for permanent use.

Optional equipment

- Available in 230Volt or 115Volt version.
- "Z" pump. Permits circulation via open or closed system.
- Cooling circulator TLC3(-20°C/-4°F)
Ordering code **00T0930**.
- Cooling circulator TLC10B(-45°C/49°F)
Ordering code **00T0625**.
- Extension cables set 1 M
Ordering code **00T0250**.

- Extension cables set 2 M

Ordering code **00T0251**.

- Extension cables set 3 M

Ordering code **00T0252**.



Technical Specs

Item	Unit	T1000	T2500	T4500
Ordering code		00T0670	00T0680	00T0690
230V				
Ordering code		00T0860	00T0850	00T0880
115V				
Body and bath		Stainless Steel 304, PTFE		
Range		..250°C/..482°F		
Reading		°C or °F menu selectable		
Setting \pm	[°K]	0,1		
Stability \pm	[°K]	0,01		
Heating	[W]	1200	2700	2700
Heaters		2	3	3
Bath volume	[L]	16	40	56
Pump pressure	[mm H2O]	300		
Pump cap.	[L/min]	7,5		
Opening	[mm]	180 *	420 *	420 *
		210	275	275
Depth	[mm]	200	200	300
Length	[mm]	455	705	705
Width	[mm]	295	375	375
Height	[mm]	440	440	590
Weight	[Kg]	21	30	35
Power	[Watt]	1300	2800	2800
Frequency	[Hz]	Suited for both 50 & 60		
CE		All models conform CE regulation		

* Value measured in water @ 50°C/122°F