Specifications TC16, TC40, TC58

Thermostatic bath and circulator

Item	Unit	TC16	TC40	TC58
Ordering code 230V	50 or 60Hz	**00T0671**	**00T0681**	**00T0691**
115V	50 or 60Hz	**00T0861**	**00T0851**	**00T0881**
Power	[Watt]	1600	2800	2800
Materials	Used inside bath: stainless steel 304, PTFE			
Range	Ambient .. 250°C/..482°F			
Reading	Standard °C, °F on request			
Setting ±	[°]	0.1		
Stability ±	[°K]	0.02	0.02	0.02
Heating	[W]	1200**	2700	2700
Bath volume	[L]	16	40	58
Pump	[mBar]	Max pressure 300*		
Pump	[L/min]	Max flow 7.5*		
Opening	[mm]	180 *210	420 *275	420 *275
Depth bath	[mm]	200	200	300
Length	[mm]	455	705	705
Width	[mm]	295	375	375
Height	[mm]	440	440	590
Weight	[Kg]	21	30	35
CE	Conforms to CE regulation			

- **Completely stainless steel**
- **Precise control**
- **Autotune, high precision**
- **Overtemperature protection**
- **RS232 communication**
- **Various options**
- **Standard cooling coil**

* Optional pump with pressure max 1bar, flow max 16ltrs/min, reference: 24T0392. See specification sheet "pumpgraph
** Additional heater 1500W optional to heat larger loads when circualting

General

The “TCXX” baths are used for precise temperature control. This serie offers a choice in relatively large bath volumes.

Accuracy

The insulation of the bath and electronic design result in a very stable working temperature of ±0.02° for the TC16, TC40 and TC58. The stability was measured in water at 50°C.

The set point can be set in steps of 0.1° in the range of 0°C up to 250°C(-148..482°F).

The accuracy on the display is displayed in 0.1°C. However the controler has an internal accuracy of 0.01°C. This two decimal-readout also is available from the RS232 and the free Tamcom software.

Temperature readout

Standard available in °C, on request in °F.

Pump

Three pumps can be offered:

- Standard pump
- Suction/pressure pump **00T0253**
- Performance pump **24T0392**

Span

These baths can be operated from ambient up to 250°C(41°F..482°F). Due to the "self heating" of the stirring mechanism and when using a top lid, the minimum temperature lies approximately 5°C above the ambient temperature. When using the standard built-in cooling coil the minimum operating temperature lies approximately ± 5°C above the temperature of the cooling liquid circulating inside the cooling coil. In practice the minimum temperature lies around 10°C. Lower temperatures generate problems with built up of condensat in the inner insulation of the bath.

Safety

The bath conforms to CE regulation. It is further equipped with a mechanical resettable safety thermostat.

Optional

See table on the next page.

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Cobaltstraat 3
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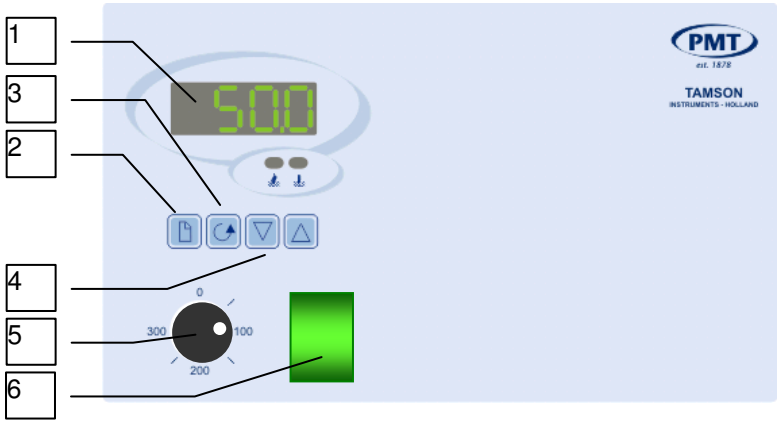
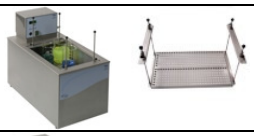
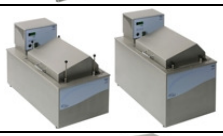
Operating

1 - LED Temperature display
2 - Item
3 - Sequence
4 - Up & Down
5 - Overtemperature safety
6 - Power

The thermostatic bath is easy to operate. The four keys will set all the parameters. Using the up and down arrow the desired working temperature or SP can be set in steps of 0.1°C. The bath temperature is displayed with a resolution of 0.1°C.



Options

Item		TC16	TC40	TC58
Remote PT100		On request		
RS232 serial communication		02T3025		
Software "Tamcom"		Free of charge		
Suction/pressure pump		00T0253		
Performance pump		24T0392		
Bath drain		02T3015		
Levelling platform			07T0211	07T0212
Lid levelling platform			03T2270	
Gabled lid			03T2210 (In comb. with 07T0211 / 07T212)	
Top lid with cover 2 sets of 9 rings			00T0255	
Top lid with cover 6 sets of 6 rings			00T0256	
Cooling circulator TLC10-3		TLC10-3 - 230V/50Hz **00T0050** TLC10-3 - 230V/60Hz **00T0051** TLC10-3 - 115V/60Hz **00T0052**		
Cooling circulator TLC15		TLC15 - 230V/50Hz **00T0565** TLC15 - 230V/50Hz **00T0567** TLC15 - 115V/60Hz **00T0570**		
Additional heater (1500W)		25T0190 - 230V 25T0200 - 115V		

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