



High Temperature Baths

2.6 Tamson Circulator – TC Line




The working temperature range offers many possibilities, e.g. routine applications, temperature control of samples, incubations, dental applications, material testing, corrosion tests, tempering of cultures as well as temperature testing of food and luxury articles. The "TC" baths are used for precise temperature control. They can be used as circulator or/and water/oil bath. The TC16 can be used for ASTM D70 purposes.

Main Characteristics

The insulation of the bath and electronic design result in a very stable working temperature of $\pm 0.02\text{K}$ for the TC baths. The set point can be set in steps of 0.1° in the range from 0°C up to 250°C ($32\text{...}482^\circ\text{F}$). The accuracy on the display is displayed in 0.1°C . However, the controller has an internal accuracy of 0.01°C . Two decimal readout is also available via the RS232 and the free Tamcom software. Due to the "self heating" of the stirring mechanism and when using a top lid, the minimum temperature lies approximately 5K above the ambient temperature. When using the standard built-in cooling coil the minimum temperature lies approximately 5K above the temperature of the cooling liquid. In general the minimum temperature lies around 10°C . Lower temperatures generate problems with built up of condensate in the inner insulation of the bath.



TC Line

	TC16	TC40	TC58
			
Range	...250°C/...482°F		
Reading	Standard °C, °F on request		
Used materials inside bath	Stainless steel 304		
Setting \pm	0.1°C		
Stability \pm	0.02 K		
Heating	1500 W	2800 W	2800 W
Bath volume	16 L	40 L	58 L
Opening bath	180 x 210 MM	420 x 275 mm	420 x 275 mm
Depth bath	220 mm	200 mm	300 mm
Pump (mBar)	Max pressure 300 (optional 1 Bar)		
Pump (L/min)	Max flow 7.5 (optional 16)		
Dimension LxWxH	455 x 294 x 440 mm	705 x 375 x 440 mm	705 x 375 x 590 mm
Weight	21 kg	30 kg	35 kg

- ▶ TC16 **REF** 00T0671 (230V/50-60Hz) • **REF** 00T0861 (115V/60Hz)
- ▶ TC40 **REF** 00T0681 (230V/50-60Hz) • **REF** 00T0851 (115V/60Hz)
- ▶ TC58 **REF** 00T0691 (230V/50-60Hz) • **REF** 00T0881 (115V/60Hz)



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Options		TC16	TC40	TC58
REF 02T3025	RS232 serial communication port	•	•	•
REF 00T0253	Suction/pressure pump	•	•	•
REF 24T0399	Performance pump (16L/min)	•	•	•
REF 25T0190	Additional boost heater (1500W)	•		
REF 07T0210	Leveling platform TC16	•		
REF 07T0211	Leveling platform TC40		•	
REF 07T0212	Leveling platform TC58			•
REF 03T2270	Lid leveling platform		•	•
REF 03T3200	Gabled lid		•	•
REF 03T2210	Gabled lid + leveling platform		•	•
REF 00T0254	Top lid cover with one set of rings	•		
REF 00T0255	Top lid cover with two sets of nine rings		•	•
REF 00T0256	Top lid cover with six sets of six rings		•	•
REF 00T0050	TLC10-3 external cooler 230V/50Hz REF 00T0051 230V/60Hz REF 00T0052 115V/60Hz	•		
REF 00T0565	TLC15-5 external cooler 230V/50Hz REF 00T0567 230V/60Hz REF 00T0570 115V/60Hz		•	•
REF 06T1660	Remote PT-100	•	•	•

Spare parts 230V/50-60Hz (115V-60Hz on request)		TC16	TC40	TC58
REF 25T1242	Fan	•	•	•
REF 04T0035	Pump complete	•	•	•
REF 24T8080	Motor fuse	•	•	•
REF 24T3300	Motor capacitor	•	•	•
REF 06T0496	PCB TC bath	•	•	•
REF 25T0170	Heater 200/1000 W		•	•
REF 25T0190	Boost heater 1500 W	•	•	•
REF 24T8541	Main switch	•	•	•
REF 24T8581	Safety cut-out thermostat	•	•	•
REF 28T3022	K1S controller	•	•	•
REF 25T2310	PT-100 sensor	•	•	•

Detailed
information
www.tamson.com