Tamson Instruments
Specification sheet

Specifications TLC 15-5

Tamson low temperature circulator

TLC15-5

- **RS232, free communication software**
- **Drain to empty bath**
- **Compact, small foot print**
- **Very quiet**
- **Fluid level detection**
- **Overflow outlet**

Item	Unit	TLC15-5			
Ordering code 230V /50Hz		00T0565			
230V /60Hz		00T0567			
115V /60Hz		00T0570			
Power	[kW]	1,4			
Used materials inside bath		Stainless steel			
Range	[°]	-15..+60 °C -5..+140°F **-15..+120 °C on request**			
Reading	°C or °F on request				
Setting ±	[°]	0.01			
Stability±	[°K]	0.02			
Heating	[W]	1100 (1 heater)			
Bath volume	[L]	5			
Pump pressure	[Bar]	0.3 / 0.7* max			
Pump cap.	[L/min]	7 / 10* max			
Compressor	[W]	220			
Heat removal at temperature specified in °C	[W]	+2°C	250	-12°	75
	[W]	-7°C	200	-14°	50
	[W]	-10°	150		
Opening bath	[mm]	85 x 150 (effective use)			
Depth bath	[mm]	150			
Length	[mm]	420 (460 incl drain)			
Width	[mm]	265			
Height	[mm]	565			
Weight	[kg]	30			
CE	Conforms to CE regulations				

* 24T0398 Optional pump (85~260V) pressure max 0.7 bar, flow max 10ltrs/min, reference:
04T0220 Standard pump 230V 50Hz/60Hz
04T0221 Standard pump 115V 60Hz

General
This type of cooling circulator can be used for multiple heat removal purposes like replacement of tap water, general cooling or in combination with ASTM flashpoint testing instruments.

Cooling medium
The used cooling system is ozone friendly and doesn't contain any CFK/HCFK gas.

Control mechanism
With the compressor running continuously, the fluid temperature is regulated by an electronic controlled heater.

Span
The TLC15 operates from -15° to +60°C/-5°..+140°F Optional from -15°..+120°C.

Accuracy
The set point is adjustable in steps of 0.1°K. The overall system accuracy is better than ±0.02°K

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

Pump
A pressure pump provides circulation in the bath or via an external circuit. The pump pressure is 0.3 bar (no counter pressure) and 7 litres per minute. Optional is performance pump 0.7 bar, part number 24T0398.

Safety
The bath conforms to CE regulations. Further it is equipped with a mechanical adjustable and resettable safety thermostat to guarantee safe around the clock operation.

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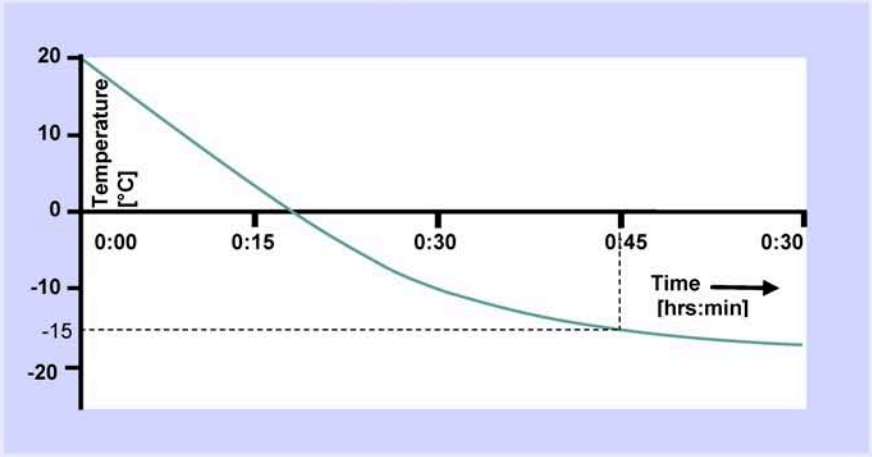
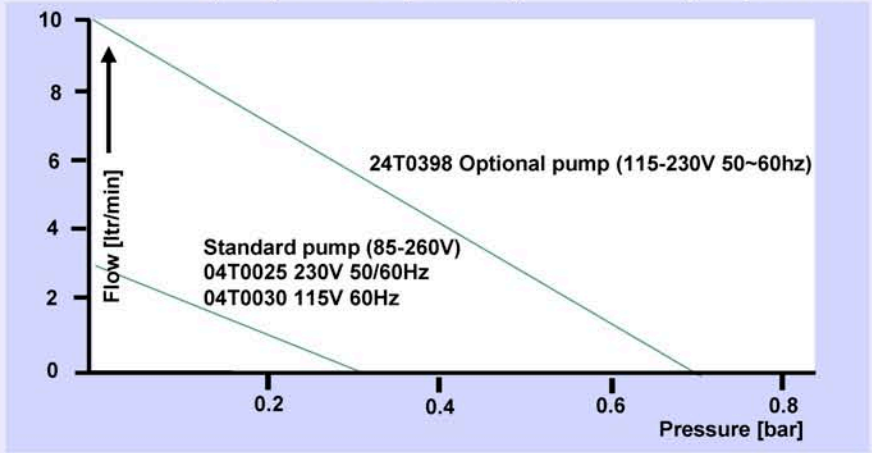
Cooling down (methanol used as bath liquid)



Standard pump versus optional "performance"pump 24T0398



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