

Specifications TLC15-5

Tamson Low-Temperature Circulator



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

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 flash point 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 TLC15-5 operates from -15° to +60°C/-5°..+140°F
 Optional range from -15°..+120°C.

Item	Unit	TLC15-5			
P/N 230V/50Hz		00T0565			
P/N 230V/60Hz		00T0567			
P/N 115V/60Hz		00T0570			
Power	[kW]	1.4			
Used materials inside bath		Stainless steel, brass bearing			
Range	[°]	-15..+60 °C -5..+140°F -15..+120 °C on request			
Reading	°C or °F on request				
Setting	[°]	0.01			
Stability±	[°C]	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°C	75
	[W]	-7°C	200	-14°C	50
	[W]	-10°C	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				
* P/N 04T0225 optional pump (85~260V/50-60Hz) pressure max 0.7 Bar, flow max 10 l /min.					

Accuracy

The set point is adjustable in steps of 0.01°C. The overall system accuracy is better than ± 0.02°C.

Temperature readout

Standard available in °C, on request in °F. Readout in two decimals.

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 (no counter pressure). Optional is a performance pump, P/N 04T0225 (pump pressure 0.7 Bar, flow max 10 L/min) .

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

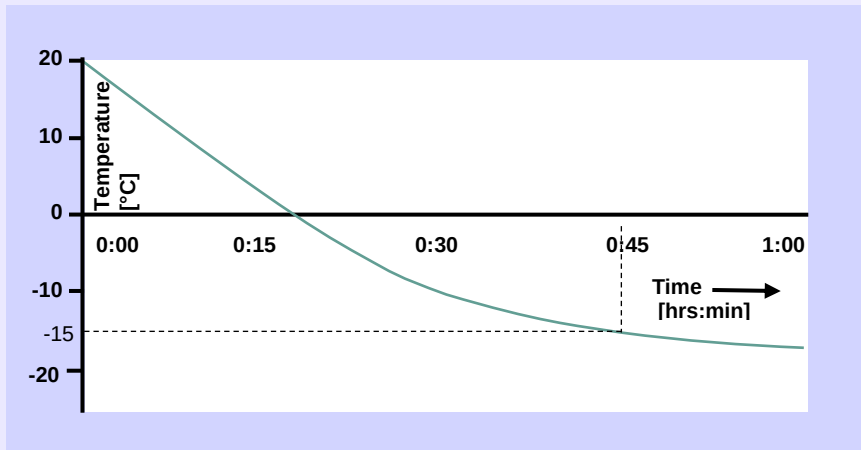
Tamson Instruments

Specification sheet

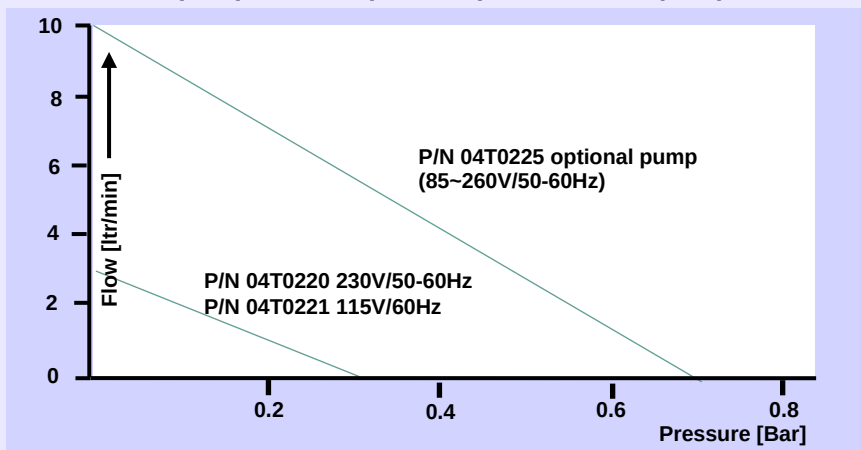
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Cooling down (methanol used as bath liquid)



Standard pump versus optional “performance” pump P/N 04T0225



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