

Tamson Instruments

Specification sheet

Specifications TLC30-5

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 through an electronic controlled heater.

Span

The TLC30-5 operates from -30°C..+60°C (-2°F..+140°F)
 Optional range from -30°C..+120°C.

Item	Unit	TLC30-5			
P/N 230V / 50Hz*		00T0555			
P/N 230V / 60Hz*		00T0562			
P/N 115V / 60Hz*		00T0560			
Power	[W]	1400			
Used materials inside bath		Stainless steel, brass bearing			
Range		-30..+60°C -22..+140°F -30..+120 °C on request			
Reading		°C or °F			
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	[W]	@15°C	200	@ -25°C	100
	[W]	@ 0°C	170	@ -30°C	50
	[W]	@ -3°C	150		
Opening bath	[mm]	85 x 140 (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 regulation			

* P/N 04T0225 optional pump (85~260V/50-60Hz) pressure max 0.7 Bar, flow max 10 ltrs/min.

Accuracy

The set point is adjustable in steps of 0.01°. The overall system accuracy is better than 0.05°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 and 7 litres per minute (no counter pressure). Optional is a performance pump 0.7 Bar, **P/N 04T0225**.

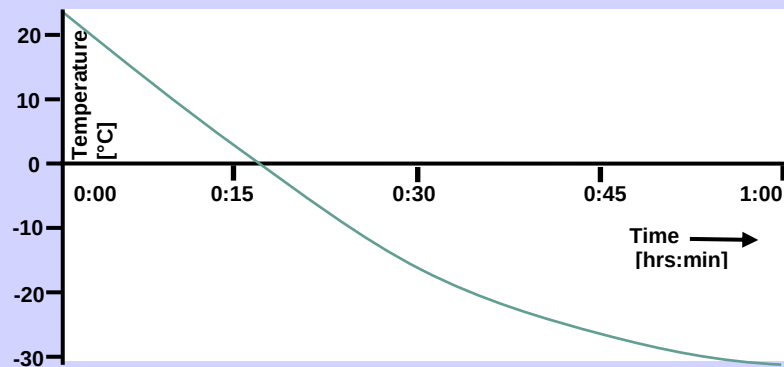
Safety

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

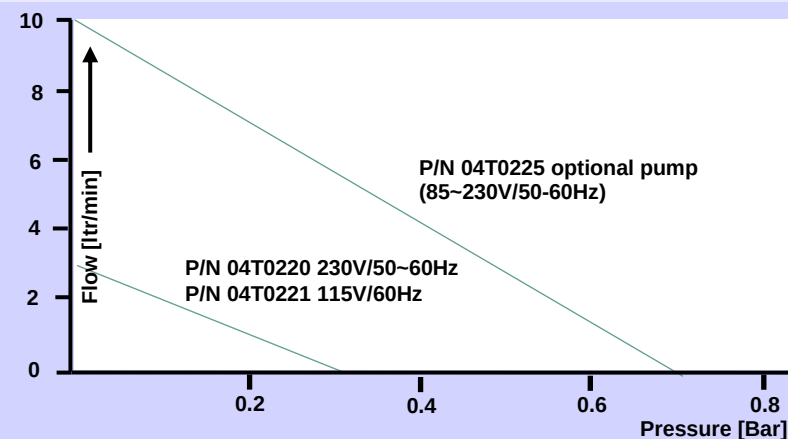
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Cooling down (methanol used as bath liquid)



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



TLC30-5