

# Specifications TLC2

Tamson Low temperature Circulator



- ⊕ Completely stainless steel
- ⊕ Compact, small footprint
- ⊕ Autotuning, high precision
- ⊕ Easy to operate
- ⊕ Low noise
- ⊕ Bath opening 150x100mm

Item	Unit	TLC2	
<b>Ordering code</b>			
230V /50Hz		<b>00T0970</b>	
230V /60Hz		<b>00T0977</b>	
115V /60Hz		<b>00T0975</b>	
Power	[Watt]	1050 max.	
Used materials		Stainless steel	
Inside bath		PTFE	
Range		-10 .. 60°C 14 .. 140°F	
Reading		Standard °C, °F on request	
Setting ±	[°]	0.1	
Stability ±	[°K]	Better than 0.1	
Heating	[W]	1000 (1 heater)	
Bath volume	[L]	5.5	
Pump pressure	[mBar]	300 max	
Pump cap.	[L/min]	7 max	
Compressor	[Hp]	1/14	
Heat removal	[W]	@ 60°C	350
	[W]	@ 0°C	150
	[W]	@ -10°C	50
Opening	[mm]	100x150(round edge)	
Depth bath	[mm]	150	
Length	[mm]	360	
Width	[mm]	219	
Height	[mm]	470	
Weight	[Kg]	18	
CE		Conforms to CE regulation	

## General

The TLC2 has specially been developed to be used as a heat removal circulator. The apparatus can be used in combination with our viscometer bath model TV2000 or TV4000 enabling very stable operating temperatures to just below ambient. Other applications are general purpose heat removal ( replacement of tapwater). Examples are combinations of the TLC2 connected to a refractometer, flash point analysers or rotary evaporator. The TLC2 also can be used as a general purpose low temperature thermostatic bath. The bath depth is 150 mm, contains 5.5 litres of fluid and the bath opening measures 100\*150mm. A lid is provided as standard. Due to its special design the system is extremely quiet, compact and saves costly laboratory space. Readout is in degrees °C or on request in °F.

## Cooling medium

The cooling system inside the TLC 2 is ozone friendly and doesn't contain any CFK/HCFK gas.

## Safety

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

## Control mechanism

The TLC 2 combines a wide temperature range and maintenance free -long life- cooling system. Accurate temperature regulation is provided by a microprocessor controlled PID system also enabling an "autotune" function for optimum setting of the temperature regulation. The cooling system provides rapid cooling down of the 5.5 litres bath contents.

## Span

The working temperature ranges from:

-10 to +60°C / +14..+212°F

(Span -10 to +100°C is optional available)

## Accuracy

The setpoint can be set in steps of 0.1°K. The overall system accuracy is ±0.1°K. Temperature readout in 0.1°K

## Pump

A pump provides circulation in the bath or via an external circuit. The pump offers 7 litres per minute maximum pressure is 300mBar. Connector 1/4"R or 8mm hose.