

Specifications for Adjustable Cloud and Pour Point Bath

ASTM D97 - ASTM D2500 - ISO 3015 - ISO 3016 - IP 15 - IP 219



- Completely stainless steel**
- Drain to empty bath**
- Wheels fitted for easy transport**
- Compact, low noise**
- Auto tune, high precision**
- Position for six jackets**

General

Apparatus to determine the cloud and pour point manually. The TLC40 or TLC80 are single and adjustable circulator baths with position for six jackets. The pour point describes a procedure for testing the fluidity of a petroleum product at a temperature. The cloud point is defined as the temperature of a liquid specimen when the smallest observable cluster of wax crystals first appears upon cooling.

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 TLC40 operates from -40°C to +20°C (-40°F..68°F) and optional extended minimum temperature: -45°C .. +20°C / -49°F .. + 68°F. The TLC 80 operates from -80°C to +20°C (-112°F to +68°F).

Item	Unit	TLC40		TLC80	
Ordering code 230V /50Hz		00T0520		00T0530	
230V /60Hz		00T0522		00T0532	
115V /60Hz		00T0525		On request	
Power	[Watt]	2000		3200 max	
Used materials inside bath		Stainless steel Chrome plated coil			
Range		-40.. +20°C -40.. +68°F		-80..+20°C -112..+68°F	
Reading		Standard °C, °F on request			
Setting ±	[°]	0.1			
Stability ±	[°K]	Better than 0.05			
Heating	[W]	1550 (1 heater)			
Bath volume	[L]	14..15			
Pump pressure*	[mBar]	300 max			
Pump cap.*	[L/min]	10 max		10 max	
Compressor	[W]	400		2*400	
Heat removal	[W]	@ -10°	1220	@ -70°	200
	[W]	@ -20°	880	@ -74°	100
	[W]	@ -30°	520	@ -80°	50
	[W]	@ -40°	250		
Opening bath	[mm]	240 x 170 (240x160 effective)			
Depth bath	[mm]	150			
Length	[mm]	810			
Width	[mm]	460			
Height	[mm]	770			
Weight	[kg]	65		80	
CE		Conforms to CE regulation			

* 24T0399: Optional pump (85~260V) pressure max 1 Bar, flow max 16 ltrs/min. The system standard is equipped with:

04T0025: Standard pump 230V 50Hz/60Hz

04T0030: Standard pump 115V 60Hz

Accuracy

The set point is adjustable in steps of 0.1°. The overall system accuracy is better than ± 0.05°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 300 mBar and 10 ltrs per minute (no counter pressure).

Safety

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

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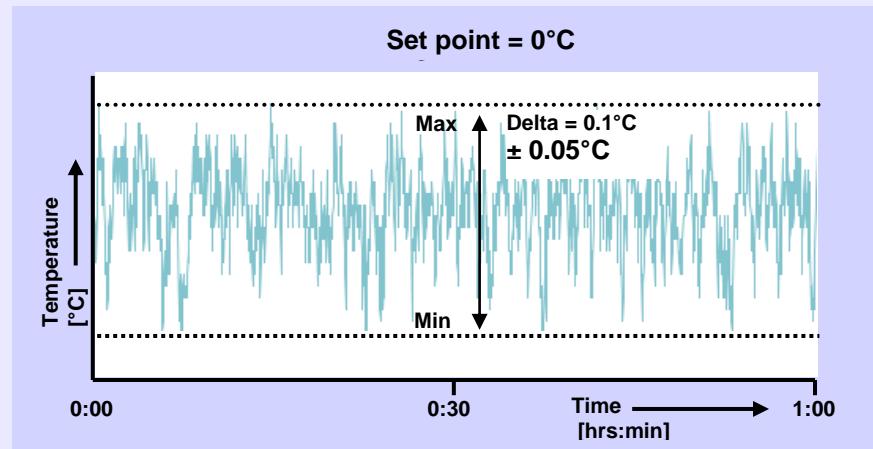
Accessories

P/N	Picture	Description
03T2171		Insulated cover for six positions with insulated lids
14T0235		Jacket (six needed)
31T0012		Test jar for cloud and pour point
09T0142		Test jar for cloud and pour point, case of 24 pieces
31T0421		Felt gasket (pack of ten pieces)
31T0422		Felt disk (pack of ten pieces)
31T0013		Cork for test jar (P/N 31T0012), pack of ten pieces
31T0423		Cork for bath thermometer
25T0904		ASTM 5C thermometer
25T0905		ASTM 6C thermometer
25T0946		ASTM 61C thermometer

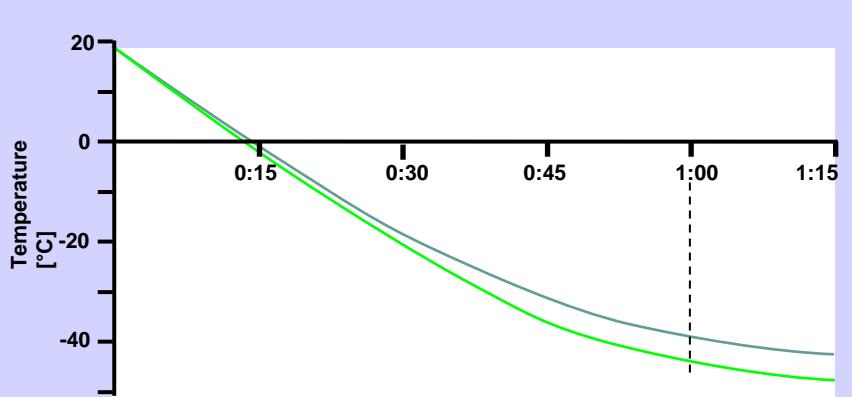
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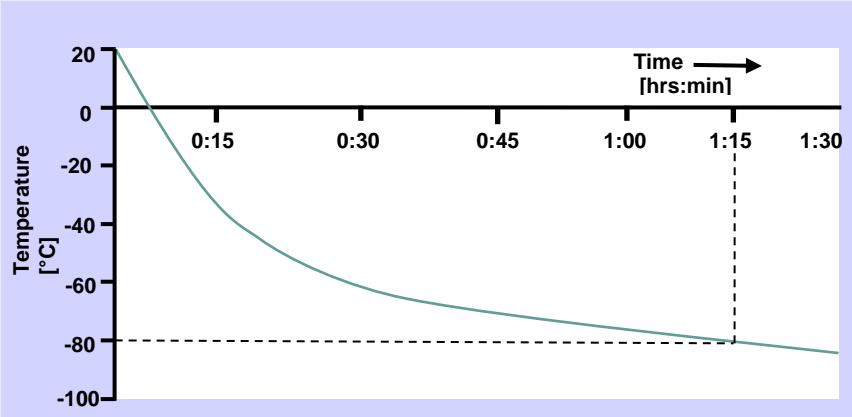
Temperature stability
(methanol used as bath liquid)



Cooling down TLC40 and TLC40 "extended"
(methanol used as bath liquid)



Cooling down TLC80
(methanol used as bath liquid)



D97 D2500