Specifications for Adjustable Cloud and Pour Point Bath

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



Drain to empty bath Wheels fitted for easy transport Compact, low noise Auto tune, high precision Position for six jackets (TLC40-14) Position for four jackets (TCC-B)

General

Apparatus to determine the cloud and pour point manually. The TLC40-14 or TCC-B are single and adjustable circulator baths with position for six or four 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 TLC40-14 operates from -40°C to +20°C (-40°F..68°F) and optional available is an extended minimum temperature: -45°C .. +20°C / -49°F .. + 68°F. The TCC-B operates from -88°C to +20°C (-126°F to +68°F).

Item	Unit	TLC40-14		TCC-B		
P/N 230V/50Hz		00T0520		00T0310		
P/N 230V/60Hz		00T0522		00T0311		
P/N 115V/60Hz		00T0525		On request		
Power	[Watt]	2400		2600 max		
Used materials inside bath		Stainless steel Chrome plated coil				
Range		-40 +20°C		-88+20°C		
nange		-40	+68°F	-126+68°F		
Reading		Standard °C, °F on request				
Setting ±	[°]	0.1				
Stability ±	[°C]	Better than 0.05				
Heating	[W]	1550 (1 heater)		1400 (1 heater)		
Bath volume	[L]	1415		11		
Pump pressure	[mBar]	300 max*		1000 max		
Pump cap	[L/min]	10 max*		16 max		
Compressor	[W]	400		2*400		
Heat removal	[W]	@-10°	1220	@-64°	400	
	[W]	@-20°	880	@-73°	350	
	[W]	@-30°	520	@-82°	300	
	[W]	@-40°	250	@-84°	250	
Opening bath	[mm]	240 x 160		175 x 130		
Depth bath	[mm]	150		240		
Length	[mm]	810		770		
Width	[mm]	460		380		
Height	[mm]	770		780		
Weight	[kg]	65		73		
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/50-60Hz 04T0030: Standard pump 115V/60Hz

Accuracy

The set point is adjustable in steps of 0.1°. The overall system accuracy is better than \pm 0.05°C. The temperature readout is 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 liters per minute (no counter pressure) for TLC40-14. For the TCC-B the pump pressure is 1000 mBar and 16 liters per minute. With the TCC-B, the pump speed can be adjusted.

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.





Table 1: Necessary accessories							
P/N	Picture	TLC40 -14	ТСС-В	Description			
03T2171		1		Insulated cover for six positions with insulated lids.			
03T2173			1	Insulated cover for four positions with insulated lids.			
14T0235		6	4	Jacket			

	Table 2: Accessories							
	P/N	Picture	TLC40 -14	тсс-в	Description			
	09T0142	tamsor	1		Test jar for cloud and pour point, case of 24 pieces.			
	31T0012	-	6	4	Test jar for cloud and pour point, 1 piece.			
	31T0421	0	2		Felt gasket (pack of ten pieces).			
	31T0422		2		Felt disk (pack of ten pieces).			
	31T0013		2		Cork for test jar (P/N 31T0012 or 09T0142), pack of ten pieces.			
	31T0423		2		Cork for bath thermometer.			
	25T0904B		6	4	ASTM S5C thermometer with special low- hazardous filling and works certificate with at 0°C.			
	25T0905T		6	4	ASTM 6C thermometer with special low- hazardous filling and conformity certificate.			
	25T0946B		6	4	Thermometer similar to ASTM 61C with special low-hazardous filling and works certificate at 100°C.			

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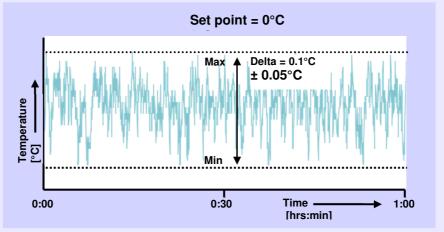
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Graphs

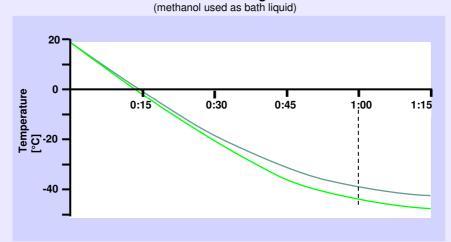
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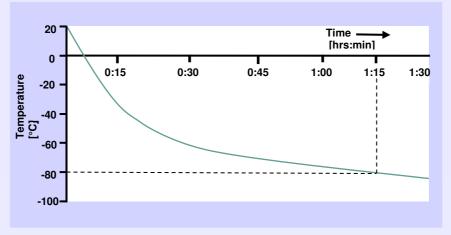


Temperature stability (methanol used as bath liquid)

Cooling down TLC40-14 and TLC40-14 "extended range"



Cooling down TCC-B (methanol used as bath liquid)



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