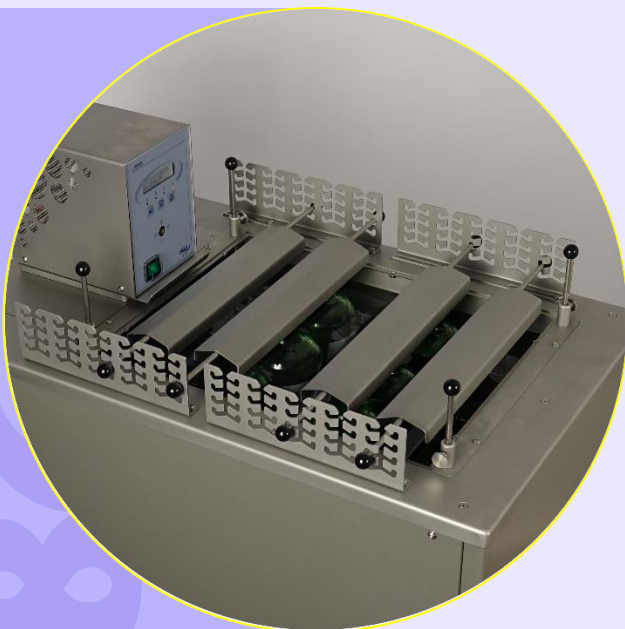


TLB50 Sample Preparation Bath

TLB50 for ASTM D86 sample preparation



- ⊕ **Completely stainless steel**
- ⊕ **Drain to empty bath**
- ⊕ **Overflow protection**
- ⊕ **Large bath**
- ⊕ **Very quiet**
- ⊕ **Smart rack to position flasks**
- ⊕ **Up to 12 x 1 L bottles**
- ⊕ **Optional alarm**

General

The TLB50 is a sample preparation bath with an operating range of -5°C up to +80°C. The benchtop bath with integrated cooling can replace the combination of a water bath with an external cooling circulator. This not only saves bench space but also cost because of its high cooling efficiency. The primary use of the TLB50 is sample preparation. Before most samples are analysed they must be conditioned to a specified temperature as described in a test method.

Sample Preparation prior to ASTM D86 Distillation test

The TLB50 D86 bath is able to accommodate D86 atmospheric distillation samples for storage or conditioning below 10°C (50°F), as required for group 1 and group 2 samples.

A common issue is gasoline samples are run immediately after Reid Vapor pressure tests while the sample is still at 0-1°C (32-34°F) and not at the specified temperature of 12-18°C (55-65°F).

Item	Unit	TLB50
Range		-5..+80°C 14..+176°F
P/N 230V/50Hz		00T0082
P/N 115V/60Hz		00T0081
P/N 230V/60Hz		00T0083
Reading	°C or °F	menu selectable
Interface		RS232
Setting	[°C/F]	0.01
Stability* ±	[°C]	0.02
Uniformity* ±	[°C]	0.02
Heating 230V	[kW]	2.8 (2 1400W heaters)
Heating 115V	[kW]	1.4 (1 heater)
Bath volume	[L]	50
Opening bath	[mm]	400 x 314
Depth	[mm]	280
Length	[mm]	430
Width	[mm]	710
Height	[mm]	720
Weight	[kg]	65
Power	[kW]	Nominal 0.8 Maximum 3
Ambient condition	[°C]	18 .. 23
CE		All models conform to CE regulation
* Measured @20°C in water.		

The problem occurs when the test results reflect abnormally high recoveries, for example 99.8% on winter blends of gasolines. The abnormally high results are often caused by charging at the wrong sample temperature (0-1°C or 32-34°F) and collecting at a receiver chamber temperature of 12-18°C (55-65°F). Proper sample conditioning prevents these errors and faulty test results.

Primary benefits of utilizing the TLB50 for ASTM D86 sample preparation

- **Group 1 and group 2 compliance**
- **Faster time to temperature than a refrigerator**
- **Improved temperature stability**
- **Replicate sampling**
- **Intrinsically safe**
- **Confidence in temperature consistency**
- **Much less expensive than C1D2 compliant explosion-proof refrigerators**

Temperature readout

Standard available in °C, on request in °F.

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Accuracy


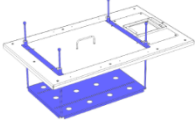
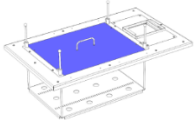
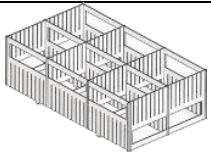
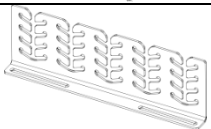

The insulation of the bath and electronic design result in an very stable working temperature of $\pm 0.02^{\circ}\text{C}$. The set point can be set in steps of 0.01° in the range of -5°C up to $+80^{\circ}\text{C}$ ($-14..176^{\circ}\text{F}$). Display readout is in two decimals (0.00°C). The TLB50 is equipped with an integrated compressor.

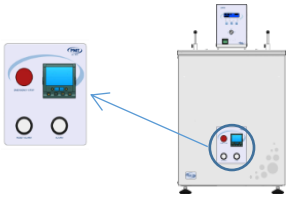
Cooling medium

The used cooling system is ozone friendly and doesn't contain any CFK/HCFK gas.

Safety

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

TLB50 D86 Sample Preparation Bath (P/N 00T0082, 00T0081 and 00T0083) consists of:			
P/N	Picture	Quantity	Description
00T0072		1	TLB50 230V/50Hz
00T0071			TLB50 115V/60Hz
00T0073			TLB50 230V/60Hz
03T0071		1	Single levelling platform - Adjustable - One platform - Without lid P/N 03T0080
03T0080		1	Top lid with handle for single levelling platform (P/N 03T0071).
03T1049		2	Rack to hold bottles or glassware P/N 03T1049 comes with: - Three long spacers - Four small spacers
03T1040		4	Rail to hold bottle bracket(s) preventing bottles from floating. Four pieces are needed for P/N 03T0071.
03T1041		4	Bottle holder

Optional accessory for TLB50 D86 sample preparation bath			
P/N	Picture	Suggested quantity	Description
11T0040		1	Optional alarm to operate within temperature band. Three temperatures are pre set for operation: - Set point temperature, - Minimum allowed bath temperature, - Maximum allowed bath temperature. Please contact us for all options