Specifications TV7000LT

Tamson Visibility bath 70 Litres Low Temperature - ASTM D445



Top lid stainless steel Integrated cooling High precision better than ± 0.02°C Large windows, no condensation Easy to operate RS232 communication

ltem	Unit	TV7000LT
P/N 230V/50Hz		00T0450
P/N 230V/60Hz		On request
P/N 115V/60Hz		On request
Power	[kW]	3.1
Used materials inside bath		Stainless steel, brass bearings
Range		-40 +100°C -40 212°F
Reading	Standard °C,°F on request	
Setting	[°]	0.01
Stability ±	[°C]	Better than 0.02
Heating	[kW]	1.5 + 0.5 [two heaters]
Bath volume	[L]	70
Opening	[mm]	260 x 240
Depth bath	[mm]	600
Length	[mm]	560
Width	[mm]	492
Height	[mm]	1450
Noise level	[db]	61
Weight	[Kg]	120
CE	Conforms to CE regulation	

General

The TV7000LT is a unique visibility bath with wide dimensions.

An integrated cooling system is able to lower the bath temperature down to minus 40°C within approximately four hours. The cooling power is controlled over four stages, so that the heat removal capacity is trimmed to the desired set point temperature, saving up to 50% of energy.

Due to its wide temperature range the bath can be used for multiple purposes varying from sub-zero temperature viscosity determination to calibration of sensors or thermometers. The large windows show the bath contents clearly. The windows are heated preventing build-up of condensate.

The bath can be emptied via a drain. If bath fluid expands at higher set point temperatures overflow of bath is protected via a drain. A LED fluid level indicator alarms when fluid level is too low.

Span

The bath temperature can be set from -40°C to a maximum of +100°C in steps of 0.01°C.

Accuracy

Overall accuracy is better than $\pm 0.02^{\circ}$ C, over the whole temperature range. Ambient temperature drift <0.003°C/°C. The homogeneity is better than 0.02°C. Drift, accuracy and homogeneity were measured with methanol as bath medium and are true min-max values found over eight hours.

Safety

The bath conforms to CE regulation. Further it is equipped with multiple safety features in order to guarantee safe around the clock operation. A mechanical safety thermostat protects the bath against high temperatures and will automatically reset itself after switching the bath off and on again. In case of over temperature electronics and motor are switched off. The pump motor is protected against mechanical overload via a resettable fuse.

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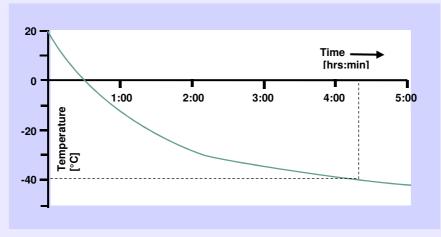
PMT) Contact: G-Labo Germany 🏗 +49 6209 797100 🛕 info@g-labo.de 🏠 www.g-labo.de

Specifications TV7000LT

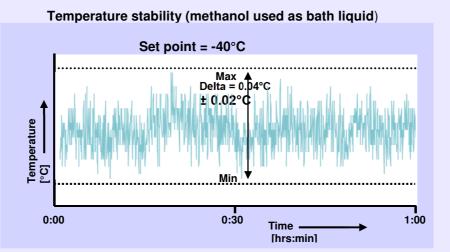
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Tamson Visibility bath 70 Litres Low Temperature - ASTM D2162



Cooling down (methanol used as bath liquid)



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Tamson Instruments Specification sheet

Specifications TV7000LT

Standard cover and Optional cover

TV7000LT is standard included with:			
P/N	Picture	Description	
0070400		Cover with 7 openings: - 7 x ø51 mm opening - 2 x ø12.5mm opening for thermometer	
23T2400	\bigcirc	7 * lid for ø 51 mm opening	

	Optional covers for TV7000LT:			
	P/N	Picture	Description	
	23T2401	0000 0000	Cover with 8 openings: - 8 x ø51 mm opening - 2 x ø12.5mm opening for thermometer	
		\bigcirc	8 * lid for ø 51 mm opening	
	23T2402		Cover with 8 openings: - 8 x ø60 mm opening - 2 x ø12.5mm opening for thermometer	
		\bigcirc	8 * lid for ø 60 mm opening	
	23T2403		Cover with 7 openings: - 4 x ø51 mm opening - 3 x ø60 mm opening - 2 x ø12.5mm opening for thermometer	
		\bigcirc	4 * lid for ø 51 mm opening	
		\bigcirc	3 * lid for ø 60 mm opening	

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Tamson Instruments Specification sheet

Specifications TV7000LT

Accessories

Accessories				
P/N	Picture	Item		
00T0907		Back panel Z71 85~230V/50~60Hz		
19T4024		E20 Digital contact thermometer.Two decimal readout. Temperature range -40°C to 140°C. Please see specification sheet "E20 Thermometer" for more information.		
14T0303		Adapter to insert an E20 thermometer in the opening of the cover		
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Viscosity Accessories		Please see specification sheet "Viscosity Accessories"		

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(PMT) Contact: G-Labo Germany 🕿 +49 6209 797100 🝙 info@g-labo.de 🏠 www.g-labo.de