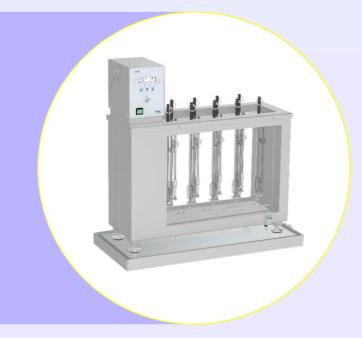
Tamson Instruments Specification sheet

TV3500

ASTM D445 - ASTM D446 - IP 71 - ISO/EN 3104



Φ	Stainless steel
Φ	Compact, small foot print
Φ	Levelling feet for spirit leve
Φ	RS232 communication
Φ	Two decimals readout (0.01
Φ	Standard cooling coil

Item	Unit	TV3	500
P/N 230V/50~60Hz		19T1	005
P/N 115V/60Hz		19T1	006
Power	[kW]	1.5	1.5
Heat rate water	[°C/min]	0.	8
Heat rate oil	[°C/min]	1.9	
Heating	[kW]	1.4	1.4
Used materials inside bath		Stainless steel,	Ũ
Range		Ambient Ambient	
Reading		°C o	r °F
Setting ±	[°]	0.0)1
Stability ±	@50°C	0.02°C Water	
	@100°C	0.02°C Oil	
Bath volume	[L]	3!	5
Top lid		Optional with open	
Opening bath	[mm]	400 * 120 (et	ffective use)
Depth	[mm]	32	20
Length	[mm]	59	0
Width	[mm]	21	6
Height	[mm]	61	5
Weight	[kg]	20	0
CE	All m	odels conform to C	CE regulation

General

The TV3500 is specially designed for tests that require precise temperature control like the determination of kinematic viscosity and sensor or thermometer calibration. The visibility through the bath is excellent.

The stainless steel construction ensures stable temperature control, which is further improved by a special stirring mechanism. The bath is fitted with adjustable feet for leveling. The optional cover of the bath has nine round ø51 mm openings with lids, for suspending glass capillary viscometers in holders. This item needs to be bought separately.

Span

The TV3500 operates from ambient ... +120°C (242°F). Lower temperatures can be achieved when using the built-in cooling coil in combination with tap water or a Tamson TLC15-5 cooling circulator. Built up of condensate may limit the practical use to about +5°C.

Software

°C)

Use the standard RS232 interface and free TamCom® software to set parameters, program a temperature curve or log the bath temperature.

Accuracy

The set point is adjustable in steps of 0.01° C. The overall system accuracy and homogeneity are better than \pm 0.02°C, specified with water or oil during a measuring period of one hour.

Temperature readout

Available in °C or °F.

European Pharmacopoeia

Using Ubbelohde viscometer tubes, the bath conforms to the "Pharmaceutical 2.2.9, capillary viscometer method".



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Safety

The bath conforms to CE regulations. It further is equipped with a mechanical adjustable and automatic over temperature safety thermostat to guarantee safe around the clock operation. When working above 50°C the safety window is advised to be used.



Safety Window

When using the TV3500 at higher temperatures it is advised to mount a safety window. The safety window protects the user from heat radiating from the inside window.

When using the safety window, the user sitting in front of the window is protected against heat and fluid, in the very rare case the window might break. All windows are of very tough hardened glass. Use of a spill tray is also recommended to keep your lab clean. Dripping fluid from glass capillary viscometer or accidental spill during refilling the bath fluid is collected. The tray is provided with a 3/8" BSP inner thread valve.

	Neccesary option (not stand	dard included with a TV3500):
P/N	Picture	Description
03T2143		Cover with 9 openings: - 9 x ø51 mm opening - 2 x ø12.5mm opening for thermometer
	\bigcirc	9 * lid for ø 51 mm opening
\mathbf{m}		

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Tamson Instruments Specification sheet

TV3500

Accessories

	Optional a	ccessories		
P/N	Picture		Description	
02T0211		Glass sa For us	fety window with mo e at higher tempera	ountings. tures.
13T3013		operation or whe	Spill tray. against dripping ar n replacing bath flui valve 3/8" BSP cor	d. The tray has a
00T0909			inator "Z41" stand a 85~230V/50~60Hz)	
00T0565		Coc	ling circulator TLC1	5-5
		Coc	230V/50Hz ling circulator TLC1	5-5
00T0567			230V/60Hz	
00T0570			ling circulator TLC1 115V/60Hz	5-5
12T1075	Catalan Catalan	Tubing with connec TLC cool	tors and clamps to ing circulator and a	
			Thermometer	•
	Ŷ	ASTM no.	Part no.	Range°C
		Similar to 44C	25T0924B	+18.5 +21.5
Thermometers		Similar to 46C Similar to 47C	25T0939B 25T0940B	+48.6 +51.4 + 58.6 +61.5
	T	Similar to 47C	25T0940B 25T0990B	+ 38.6 + 41.4
		Similar to 121C	25T0990B	+98.6 +101.4
			anges available on i	
00T0239		AST	M Thermometer ho	lder
E20 Thermometer		Please see spec	cification sheet "E20) thermometers"
14T0303		Adapter to insert an	E20 thermometer in cover	n the opening of the
10T6090			Timer, 8 positions	
		1		

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TV3500

Accessories

P/N	Picture	Description
Viscosity accessories		Please see specification sheet "Viscosity accessories", e.g. viscometers, viscometer holders, bath fluids, general purpose reference standards, etc
07T0085		Lever detector/float

	D1298 Set-up for Density Measurement by hydrometer		
P/N	Picture	Description	
03T2128		Cover with 5 openings: - 5 x ø60 mm opening - 2 x ø12.5mm opening for thermometer	
09T0400	(ee	Density cylinder	
00T0239		Thermometer holder	
00T0565	-	Cooling circulator TLC15-5 230V/50Hz	
00T0567		Cooling circulator TLC15-5 230V/60Hz	
00T0570		Cooling circulator TLC15-5 115V/60Hz	
Hydrometers		Please see specification sheet "ASTM D1298"	

est 1878

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