Tamson Instruments
Specification sheet

Tamson Thermostatic Unit TTU-A

Heating immersion circulators

- **Completely stainless steel**
- **Precise temperature control**
- **Standard RS232 interface**
- **User-friendly operation**
- **Very quiet**
- **Fluid level detection (float)**

Item	Unit	TTU-A	
Range		ambient ..+200°C ambient .. +392°F	
Reading	[°C/°F]	menu selectable	
Interface		RS232	
Setting	[°C/F]	0.01	
Stability ± *	[°C]	0.01	
Uniformity ± *	[°C]	0.01	
P/N		**19T1010** 230V/50-60Hz	**19T1011** 115V/60Hz
		1.4kW control heater Long shaft Stirring Cooling coil	
P/N		**19T3110** 230V/50-60Hz	**19T3111** 115V/60Hz
		1.1kW control heater Short shaft Stirring and pump	
P/N		**19T3120** 230V/50-60Hz	**19T3121** 115V/60Hz
		1.4kW control heater Short shaft Stirring	
CE	All models conform to CE regulation		

* Best performance to be achieved under following circumstances:
- measured with long shaft
- bath fluid water @ 40 .. 50 °C
- double insulated bath
- use of baffle plates

General
Tamson offers immersion circulators as replacement units or "plug and play" units to heat a bath or application. The TTU-A can be used in a wide variety of applications where a precise temperature control is required.

Configuration
A choice for different applications is offered:
- Stirring with short or long shaft
- Heating with or without an additional boost heater
- Circulating and pumping
- Sub-ambient temperature regulation using a cooling coil

Accuracy
The setpoint is adjustable in steps of 0.01 °C. The overall system accuracy is better than ± 0.01°C but depends on the application. Temperature readout can be switched between °C or °F.

Pump
Models **P/N 19T3110** and **P/N 19T3111** are equipped with pump and offer 300 mBar and 7 ltrs per minute flow (no counter pressure).

Safety
The TTU-A conforms to CE regulation. The bath has a standard built in mechanical over temperature protection as an independent safety feature. In case of electronic failure, the bath will be mechanically switched-off when the temperature rises above the set temperature of this protection device. The TTU-A is equipped with a float to warn the user when the level of the bath fluid is too low.

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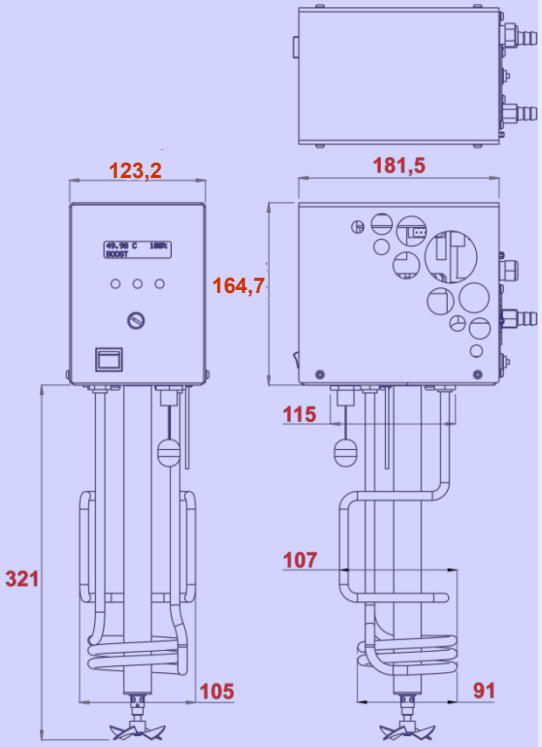
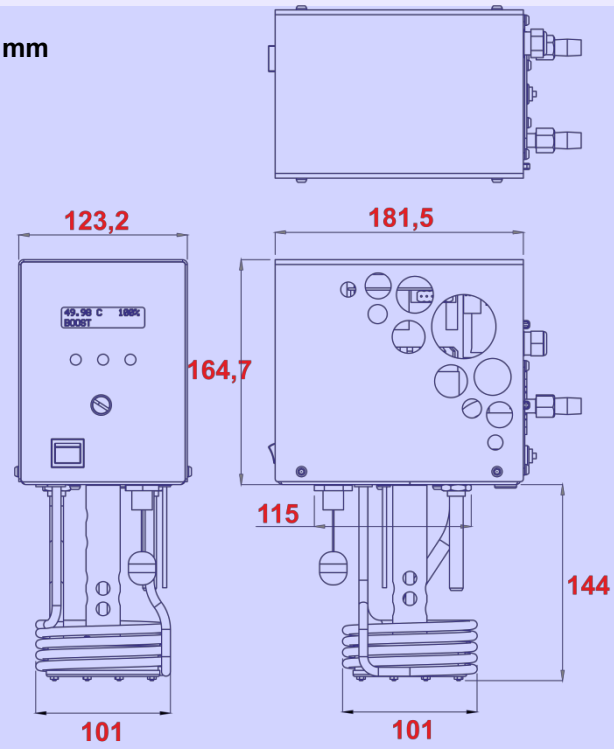
P/N 19T1010 / P/N 19T1011

Dimensions in mm



P/N 19T3110 / P/N19T3111

Dimensions in mm



TTU-A

G-Labo GmbH
Prüfgeräte für Petrochemie, Gefahrgutanalytik und mehr
+49 6209 797100
info@g-labo.de
www.g-labo.de

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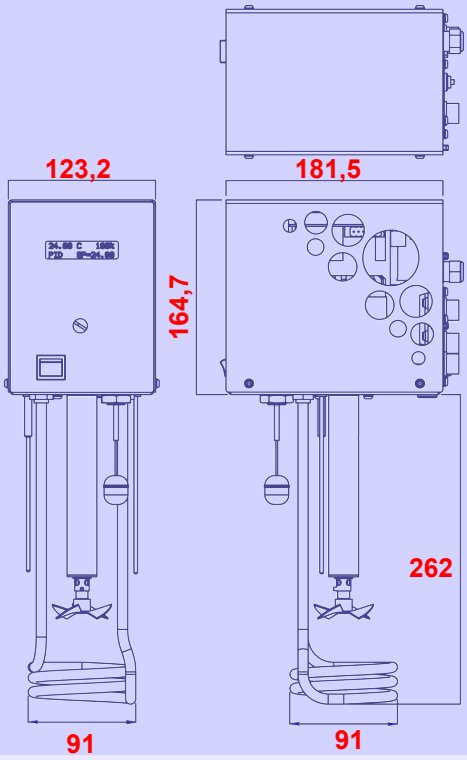
P/N 19T3120 / P/N 19T3121

Dimensions in mm



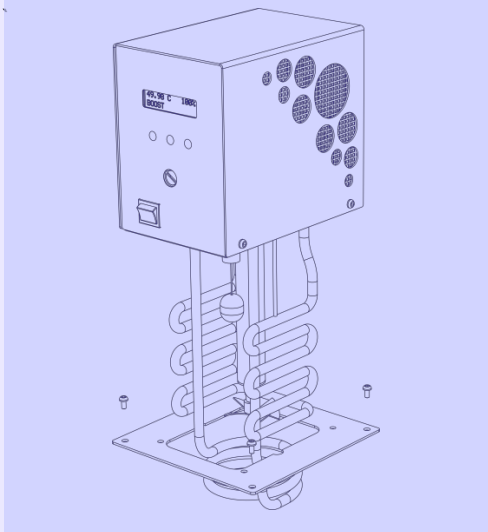
TTU-A

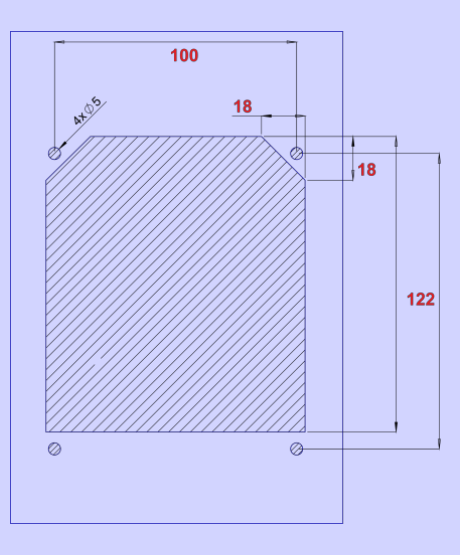
Tamson Thermostatic Unit TTU-A

Heating immersion circulators

Adapter panel

The TTU model can be used stand-alone. The opening area and mounting dimensions are indicated below.





Customized adaptor panel

The TTU-A can be used for replacement of existing thermostatic heads. In order to mount the TTU as a replacement, a customized and using existing openings for mounting, an adaptor panel can be ordered. Make sure the unit fits through the standard mounting hole and use the table to define the dimensions of this custom made adaptor panel. The panel will be laser cut and is made of 304 stainless steel with a protective foil at one side. This foil prevents scratches and must be removed when installing the panel.

Item		Specify in mm
Outside dimensions adapter plate		
Width (W)	mm	
Length (L)	mm	
Dimension moundting holes (4)		
Diameter **hole 1**	mm	
Distance (X_{H1})	mm	
Distance (Y_{H1})	mm	
Diameter **hole 2**	mm	
Distance (X_{H21})	mm	
Distance(Y_{H2})	mm	
Diameter **hole 3**	mm	
Distance (X_{H3})	mm	
Distance(Y_{H3})	mm	
Diameter **hole 4**	mm	
Distance (X_{H4})	mm	
Distance(Y_{H4})	mm	
Position thermostat hole		
Distance horizontal (X)	mm	
Distance vertical (Y)	mm