

Routine Laboratory Thermoregulators

Baths and Thermoregulators

The Techne® Tempette clip-on thermoregulators are designed for use in combination with the Techne® unheated water baths or any other suitable laboratory vessels. They will heat, circulate and safely control the temperature of the liquid in the bath within precise limits suitable for routine laboratory applications.

TE-10A Tempette

- Temperature range of -20°C* to 95°C
- Excellent temperature stability: $\pm 0.01^\circ\text{C}$ at 40°C
- Simple to use analogue control
- Suitable for most routine laboratory applications
- User adjustable over-temperature cut-out for unbeatable safety



TE-10A

TE-10D Tempette

- Temperature range of -40°C* to 120°C
- Excellent temperature stability: $\pm 0.01^\circ\text{C}$ at 40°C
- 4 digit setting with a bright LED digital temperature display
- Suitable for most routine laboratory applications
- User adjustable over-temperature cut-out
- Low liquid level cut-out as standard



TE-10D

Routine Laboratory Thermoregulators

Baths and Thermoregulators

Technical Specification

Specifications to DIN 12876	TE-10A	TE-10D
Temperature range*	-20°C to +95°C	-40°C to +120°C
Temperature selection	Analogue	Digital
Temperature stability using water @ 40°C	±0.01°C	±0.01°C
Method of control	Proportional	PID
Temperature sensor	Thermistor	PRT
Adjustable over-temperature cut-out	Yes	Yes
Low liquid level cut-out	Yes	Yes
Heating/Pumping		
Pump capacity litres/minute	10	10
Pump capacity (mbar)	145	145
Nominal heater power at 120V (W)	1000	1000
Nominal heater power at 240V (W)	1000	1000
Extension below base, mm	145	145
Dimensions (L x W x H), mm	237 x 124 x 260	237 x 124 x 260
Shipping Weight, kg	3.7	3.9

* Refrigeration or cooling coil required for below ambient cooling
(see Techne Flow and Dip Coolers and the cooling coil).

Ordering Information

Description	Product codes		
	230V	120V	100V
TE-10A, analogue thermoregulator, -20°C to 95°C, (supplied with clamp)	FTE10ADC	FTE10APC	FTE10AYC
TE-10D, digital thermoregulator, -40°C to 120°C, (supplied with clamp)	FTE10DDC	FTE10DPC	FTE10DYC

High Powered Thermoregulators

Baths and Thermoregulators

The Tempunit® offers increased heater power to enable accurate control over a wider temperature range, designed for applications requiring temperatures above 100°C. Techne also recommends the Tempunit® in conjunction with the larger 26 & 48 litre baths when temperature control above 50°C is required. Controlled heating rates and hold times can be achieved by linking the Tempunit® to the free TechneWorks software#.

TU-20D Tempunit®

- A wider temperature range of -40°C* to 200°C
- Excellent temperature stability: $\pm 0.005^\circ\text{C}$ at 40°C
- 1.8kW heater power for fast heat up
- 4 digit setting with a bright LED digital temperature display
- This unit incorporates an RS232 connection
- User adjustable over-temperature cut-out
- Low liquid level cut-out as standard



TU-20D

TU-20HT Tempunit®

- This sophisticated Tempunit® covers a wide temperature range of -40°C* to 250°C
- Excellent temperature stability: $\pm 0.005^\circ\text{C}$ at 40°C
- 1.8kW heater power for fast heat up
- 4 digit setting with a bright LED digital temperature display
- RS232 connection supplied with TechneWorks software package and connecting lead as standard
- User adjustable over-temperature cut-out with an audible alarm fitted
- Low liquid level cut-out as standard



TU-20HT

TechneWorks is also downloadable free of charge from www.techne.com and www.techneusa.com

High Powered Thermoregulators

Baths and Thermoregulators

Technical Specification

Specifications to DIN 12876	TE-20D	TE-20HT
Temperature range*	-20°C to +95°C	-40°C to +120°C
Temperature range*	-40°C to +200°C	-40°C to +250°C
Temperature selection	Digital	Digital
Temperature stability using water @ 40°C	±0.005°C	±0.005°C
Method of control	PID	PID
Temperature sensor	PRT	PRT
Adjustable over-temperature cut-out	Yes	Yes
Low liquid level cut-out	Yes	Yes
PC Interface	RS232	RS232

Heating/Pumping

Pump capacity litres/minute	10	Internal circulation
Pump capacity (mbar)	145	-
Nominal heater power at 120V (W)	1500	1500
Nominal heater power at 240V (W)	1800	1800
Cooling coil	No	Option
Extension below base, mm	145	145
Dimensions (L x W x H), mm	237 x 124 x 260	237 x 124 x 260
Shipping Weight, kg	4.0	4.0

* Refrigeration or cooling coil required for below ambient cooling (see Techne Flow and Dip Coolers and the cooling coil). The TU-20HT can only be used with the Dip Coolers

Ordering Information

Description	Product codes			
	230V	120V	115V	100V
TU-20D, advanced thermoregulator with RS232, -40°C to 200°C, (supplied with clamp)	FTU20DDC	n/a	FTU20DPC	n/a
TU-20HT, advanced high temperature thermoregulator with RS232, -40°C to 250°C, (supplied with clamp)	FTU20HDC	FTU20HPC	n/a	FTU20HYC