

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

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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