

thermoregulator



TH5/150 Digital Thermoregulator

The TH5 Thermoregulator is designed to provide accurate temperature control of the appropriate liquid up to 150°C within a tank or reservoir, and operate continuously for long periods of time. This regulator is fitted with a large capacity pump for efficient stirring within the waterbath, and can be used to pump externally. Safety features include a float switch that will remove heating if the water level falls too low, plus an over temperature alarm. The alarm will sound if the water temperature exceeds the set point and heating will stop.

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General

The user friendly Ratek PID controller has a custom program securely contained as firmware in a single microprocessor. User interface is via front panel mounted key switches and LED display. Program settings are maintained by a non-volatile RAM.

System performance is monitored by a "watch dog" that resets the system if power is interrupted. All exposed metal components are manufactured from high grade stainless steel, and the case powder coated. An optional 2000 watt heating element is available and is recommended for volumes in excess of 20 litres when used at higher temperatures. Suitable insulated stainless steel tanks and polycarbonate waterbaths can be manufactured to order.

Details

Ratek Product Code	TH5/150
Description	Digital Thermoregulator
Packaging Contents	TH5/150 Digital Thermoregulator, instruction guide

Specifications

Power requirements	240vac/1020 watts (optional 2020watts)
Control type	Custom digital microprocessor
Control range	-20°C to 150°C with 1° indication. (cooling required below ambient)
Control stability	±0.5°C
Heat up time	20° to 100° for 8 litres of Glycol at ambient 17°C is approx 45 minutes with standard 1000 watt element.
Pump capacity	10.5 litres/min. at zero head
Safety features	Low level cut out, over temperature audible and visible alarm indication
Minimum tank depth	180mm
Overall dimensions	H300 x D190 x W125
Weight	3.4 kg

Features

- Microprocessor controlled with LED panel
- Fitted with a large capacity pump for efficient stirring
- Clamp bracket for universal tank mounting
- Over-temperature alarm
- Thermostat fluid-level safety cutout

Warranty period

1 Year

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