RTC Series
Temperature and Humidity Controllers

![Robertshaw]

Robertshaw
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Description

The Robertshaw® RTC-500 and RTC-500-WIFI are digital controllers that have two output sockets to control temperature (work1) and humidity (work2). The RTC-500-WIFI model offers WiFi for remote connectivity through the free mobile app. Each controller comes with two probes, a dual temperature and humidity sensor and a fully submersible temperature sensor. The large, backlit LCD screen displays temperature, humidity, and other parameters. The three-button design allows for quick programming of parameter settings, including alarm limit calibration, protection time, unit switching, and more.

Features and Benefits

- Control temperature and humidity with a single controller
- WiFi connectivity allows for remote monitoring on RTC-500-WIFI model*
  - Free mobile app (2.4 G Hz band) for RTC-500-WIFI model*
- Large, easy-to-read, backlit LCD screen
- 2 probes included:
  - Fully submersible temperature sensor
  - Dual temperature and humidity sensor
- Programmable in Fahrenheit or Celsius
- High and low temperature/humidity limit alarm
- Sensor fault alarm

Applications

- Brewing
- Incubation/Breeding
- Greenhouses
- Terrariums
- Aquariums
- Reptile Habitats

* Available on RTC-500-WIFI model only

Specifications

- Working voltage: 100-240VAC, 50/60Hz
- Temperature measurement range: 23° to 158°F / -5° to 70°C
- Temperature control range: 23° to 158°F / -5° to 70°C
- Temperature measurement accuracy: ±1°F / ±0.5°C
- Temperature resolution: 0.1°F / 0.1°C
- Humidity measurement range: 5 to 99%RH
- Humidity control range: 5 to 99%RH
- Humidity measurement accuracy: ±5%RH
- Output power: 2200W (resistive) in total / 200W (inductive) per channel @220VAC,
                  1100W (resistive) in total / 100W (inductive) per channel @110VAC
- Total power consumption: <5W
- Working environment temperature: 32° to 140°F / 0° to 60°C
- Storage temperature: 14° to 140°F / -10° to 90°C
- Length of power cable: 5 ft
- Length of output power cable: 1 ft
- Length of sensor cable: 6.5 ft (including probe length)
- Enclosure size: 153mm x 60mm x 29mm
- WiFi type available on RTC-500-WIFI: 2.4G Hz (does not support 5G)

Replacement and Cross Reference

Robertshaw Replacement	OEM	OEM Part Number
RTC-500	Elitech	STC-1000Pro TH
RTC-500	Elitech	STC-1000PRO
RTC-500	Ink Bird	ITC-308
RTC-500	Ink Bird	ITC-306A
RTC-500	Ink Bird	ITC-306T
RTC-500	Ink Bird	ITC-608T
RTC-500	Ink Bird	ITC-200
RTC-500	Ink Bird	C206T
RTC-500	Ink Bird	IPT-2CH

Robertshaw Replacement	OEM	OEM Part Number
RTC-500-WIFI	Elitech	STC-1000WiFi TH
RTC-500-WIFI	Elitech	STC-1000WiFi T
RTC-500-WIFI	Ink Bird	ITC-308-WIFI
RTC-500-WIFI	Ink Bird	ITC-306T-WIFI
RTC-500-WIFI	Ink Bird	IHC-200-WIFI