

# TCS-110

## Microtiter Temperature Control Stage

Precise, uniform surface temperature with integrated controller



### Key Features

- Operating range: 0°C to 110°C
- Thermoelectric technology
- Integrated controller
- Ethernet Communications
- Meets ANSI/SBS 1-2004 standard

# The Right Temperature Without Fail

## Solid State Cooling Systems

### TCS-110



### Precise Microplate Temperature Control

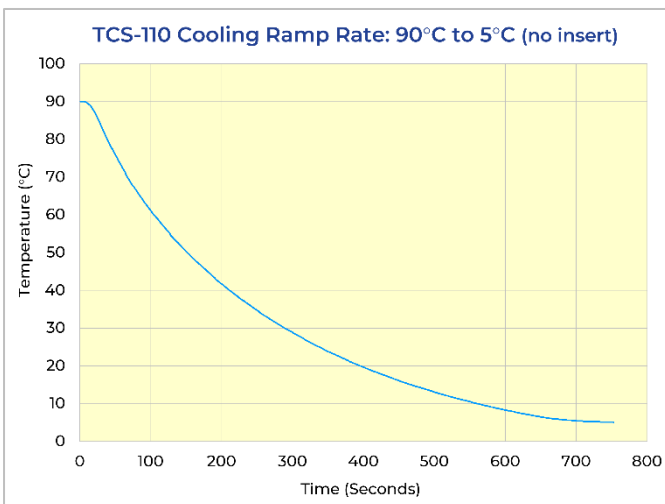
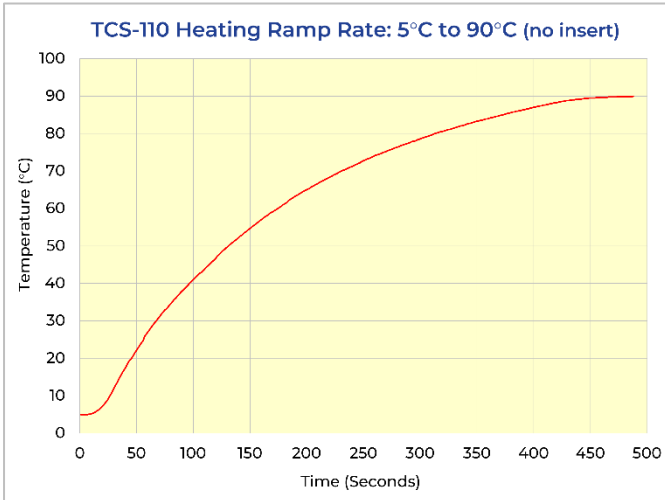
The TCS-110 provides a temperature controller platform for all ANSI SBS 2004-1 microwell plates. It features a built-in controller and DC power management to provide uniform surface temperature with high heat transfer rates to repeatably control the temperature of microwell plates from 0°C to 110°C. No separate controller is necessary.

The TCS-110 features a TCPIP Ethernet interface allowing multiple units to be connected to the host tool. It may be mounted either on top of a deck or integrated into a deck surface via an interface fixture. SSCS can customize interface fixture to meet your specific needs.

The complete system includes an external, universal 24VDC DC power supply and power cord. Customers can also supply DC power

Contact us for more information.

### TCS-110 Temperature Ramp Curves



**Note:** This product is still undergoing final Beta Customer testing, so specifications are subject to change.

### SPECIFICATIONS

Operating Range	0°C to 110°C
Ambient Temperature	10°C to 40°C non-condensing
Stability / Repeatability	±0.1°C at constant load
Temperature Uniformity	< ±0.5°C @ 37°C in 22°C ambient
Average Heating Rate	>0.2°C per second (4°C to 99°C)
Average Cooling Rate	>0.1°C per second (99°C to 4°C)
Communications	Ethernet (no limit to number of stages)
Alarms	Fan fail, RTD fail, Temperature out of range
Top Plate	3.590" x 5.5245" (ANSI/SBS 1-2004)
Dimensions above deck	6.45" x 4.29" x 1.38" (16 x 11 x 4 cm)
Dimensions below deck	5.66" x 3.27" x 4.35" (14 x 8 x 11 cm)
Weight	4 lbs (1.8 kg) without power supply
DC Operating Voltage	24 VDC, 8 amps DC max
External Power Input	100-240 VAC, 50/60 Hz
Standards	RoHS, ANSI/SBS 1-2004 UL and CE Pending
Warranty	2 years

### SOLID STATE COOLING SYSTEMS