

# Hotplate Stirrers

## Temperature Controller, SCT1

- Accurate liquid temperature control
- Built in retort fitting and probe holder
- Detachable temperature probe
- Bright, easy to read LED display
- Compact and light weight
- Comprehensive range of accessories

The Stuart® SCT1 temperature controller is the ideal instrument for the accurate temperature control of aqueous or oil based samples in the laboratory. Designed for use with the Stuart® metal top (SC162) or ceramic top (CC162) hotplate stirrers, the SCT1 can be used either as a precise controller of temperature up to a maximum of 200°C or as a digital thermometer up to 325°C.

The SCT1 temperature controller features an in-built clamp allowing the controller to be mounted either on a horizontal or vertical retort rod, providing flexible positioning of the controller. In addition, the stainless steel temperature probe, used to measure the temperature of the sample, is detachable, allowing the main body of the SCT1 temperature controller to be positioned away from potentially damaging fumes. The SCT1 temperature controller regulates the hotplate to accurately control the temperature of the sample, which is set via the large LED display. When not in use the temperature probe can be held securely by the in-built probe holder.

A range of accessories is available to allow for a complete set up of temperature controller, probe and stirrer hotplate in the laboratory. An accessory probe holder clamps on to a retort rod to allow secure positioning of the temperature probe in the sample. A PTFE probe is also available as an accessory for those applications requiring a chemically resistant probe. The SCT1 is supplied as standard with a stainless steel probe.

### Technical Specification

SCT1	
Sensor type	PT100
Probe	Stainless steel
Temperature range °C	50 to 200°C
Accuracy, °C	±0.5°C
Resolution	1°C
Dimensions, mm (w x d x h)	90 x 75 x 123
Net weight, kg	0.3 (inc. probe)
IP Rating	54

### Ordering Information

Model	Description
SCT1	Temperature controller, digital
SCT1/1	Probe holder
SCT1/2	PTFE probe

**NB: the SCT1 can only be used with the SC162 and CC162. It is not compatible with any other Stuart® hotplate stirrer**



SCT1 with SCT1/1 Probe Holder



SCT1

# Hotplate Stirrers



CC162 with SCT1 and SCT1/1



SC162 with SCT1 and SCT1/1

## Hotplate Stirrers, CC162 & SC162

- Choice of robust aluminium or chemically resistant ceramic tops
- For use with SCT1 digital temperature controller
- Powerful stirrer
- Advanced safety & communication features:
  - Flashing "Hot" warning light
  - Spillproof design
  - Overheat protection
  - Visible indication of temperature control

The SC162 and CC162 hotplate stirrers are specifically designed for use with the Stuart® SCT1 temperature controller.

Available in a choice of either robust aluminium or chemically resistant ceramic top, each is equipped with a range of advanced safety and communication features. To alert the user, a "Hot" warning light will flash whenever the plate temperature is above 50°C, even when the hotplate is turned off and connected to the mains. The cast aluminium body is shaped for stability and helps deflect spills away from the controls. An independent safety circuit prevents overheating in the event of control failure and internal electronic components are protected against corrosion. Powerful magnets and motor give stirring speed up to 1500rpm and volumes up to 15 litres.

The units automatically detect when the SCT1 temperature controller is plugged in. Communication with the SCT1 temperature controller is visible by an illuminated LED on the hotplate, providing reassurance that the temperature of the sample is precisely controlled at all times. Both CC162 and SC162 models can be used independently of the SCT1 temperature controller as a general purpose hotplate stirrer.

**Model CC162** has a glass ceramic top, which has excellent chemical and temperature resistance. The surface is easy to clean and the thermal properties allow very high plate temperatures.

**Model SC162** has a robust aluminium/silicon alloy top plate for good heat transmission. A 700W element gives rapid heating and ensures even temperature distribution across the whole of the plate.

### Technical Specification

Model	CC162	SC162
Plate material	Glass ceramic	Aluminium/silicon alloy
Plate dimensions, mm	160 x 160	160 x 160
Heated area, mm	120 x 120	160 x 160
Heater power, W	500	700
Max. plate temp. °C	450	325
Stirrer speed, rpm	100 to 1500	100 to 1500
Maximum stirring capacity	15 litres	15 litres
Dimensions, mm (w x d x h)	190 x 300 x 110	190 x 300 x 110
Net weight, kg	3.4	3.4
Electrical supply	230V, 50Hz, 550W	230V, 50Hz, 750W
IP Rating	32	32

### Ordering Information

Model	Description
CC162	Stirrer/hotplate, ceramic plate, probe socket.
SC162	Stirrer/hotplate, aluminium plate, probe socket.
SR1	Retort rod, 600mm x 12mm diameter