Hotplates & Stirrers
> Hotplates

with BioCote® antimicrobial protection

Stuart® hotplates are available in a variety of sizes, with the smallest units small footprint and surface size of 15 x 15cm, our medium units offer a 30 x 30cm surface while our largest units have 30 x 50cm surface size. Stuart® hotplates are capable of holding up to 30 x 100ml beakers simultaneously. All units are available with simple analogue control and most are also available with more accurate digital control.

Find out more! Please scan the QR/Mobile Tag with your smartphone for more information

UC150 and US150

Hotplates

Stylish and economical general purpose hotplate designed with safety as well as performance in mind. The compact shape takes up less bench space and makes storage easier. The hotplate has microprocessor control and an innovative LED based true °C temperature setting system rather than simply a 1 to 10 arbitrary scale. The unit can also be used in conjunction with the SCT1 digital contact thermometer to accurately control sample temperature rather than plate temperature. The "Hot" warning light will flash whenever the plate temperature is above 50°C even when the hotplate is turned off and unplugged from the mains.

Model **UC150** has a glass ceramic top which has excellent chemical resistance. The surface is easy to clean and allows high plate temperatures for faster heating.

Model **US150** has a robust aluminium/silicon alloy top plate for excellent heat transmission. The top plate has a thin ceramic coating for added chemical resistance. A 700W element gives rapid heating and ensures even temperature distribution across the whole surface of the plate.

Both models have an integral fitting for a retort rod and the bottom is shaped to allow a retort base to slide underneath the unit if required to make experiment setup quicker.

Technical Specification

	US150	**UC150**
Plate Material	Coated Aluminium /Silicon	Glass ceramic
Plate Dimensions, mm	150 x 150	150 x 150
Heated Area, mm	150 x 150	120 x 120
Heater Power, Watt	700	500
Max plate temp, °C	325	450
Contact thermometer socket	Yes	Yes
Dimensions (w x d x h), mm	172 x 248 x 120	172 x 248 x 122
Net weight, kg	2.2	2.2
Electrical supply	230V, 50Hz, 700W	230V, 50Hz, 500W
IP Rating	32	32

Key Features

- Choice of top plate:
  - Robust coated aluminium
  - Chemically resistant ceramic
- Flashing "Hot" warning light, mains independent
- Accurate temperature control with LED setting scale
- Compact space saving design

UC150

US150

Ordering Information

Model	**Description**
UC150	Hotplate, ceramic plate,
US150	Hotplate, coated aluminium plate,
SCT1	Digital temperature controller (see page 37)
SR1	Retort rod, 600mm x 12mm diameter

Key Features

- Accurate digital setting and control of plate temperature
- Microprocessor for very accurate temperature control
- Simultaneous display of set and actual temperature

SD160

SD160

Hotplate, digital,

A stylish digital hotplate designed for very accurate control of plate temperature. Ideal for microarrays, in-situ hybridisation and specialised electronics applications.

The excellent heat transmission of the robust aluminium top plate combined with state of the art digital temperature control gives rapid heating and ensures very even temperature distribution across the whole of the plate.

The easy to read digital display indicates both set and actual plate temperature and the encoder control allows rapid and accurate temperature selection.

The cast aluminium body is shaped for stability and also helps deflect spills away from the user. The "Hot" warning light will flash whenever the plate temperature is above 50°C.

An independent safety circuit protects against overheating and internal electronic components are protected against corrosion.

Technical Specification

Plate material	Al/Si alloy
Plate dimensions, mm	160 x 160
Heater power, W	700
Max. plate temperature, °C	325
Display resolution, °C	1
Temperature variation across plate, °C	±0.2 @ 37°C, ±1.0 @ 150°C
Temperature stability, °C	±0.25
Dimensions, mm (w x d x h)	190 x 300 x 110
Net weight, kg	2.5
Electricity supply	230V, 50-60Hz , 700W
IP Rating	32

Ordering Information

Model	Description
SD160	Hotplate, metal top, digital
SB16/4	Protective cover
SR1	Retord rod, 600mm x 12mm

CB300 and SB300

Hotplates, large capacity,

Model CB300 has a glass ceramic top which has excellent chemical resistance and allows much higher plate temperature.

Model SB300 has a robust aluminium/silicon alloy top plate which gives even plate temperature and will withstand the knocks of everyday use.

Technical Specification

	CB300	SB300
Plate material	Glass ceramic	Al/Si alloy
Plate dimensions, mm	300 x 300	300 x 300
Heated area, mm	200 x 200	300 x 300
Heater power, W	1200	600
Max. plate temp. °C	450	300
Dimensions, mm (w x d x h)	320 x 370 x 120	320 x 370 x 120
Net weight, kg	6	6
Electricity supply	230V, 50-60Hz	230V, 50-60Hz
IP Rating	31	31

Key Features

- Choice of top plate material
- Large square plate area ideal for heating one large vessel or several smaller ones
- Accommodates vessels up to 10 litre capacity
- Hotplate temperature controlled by easy to use dial
- Fitted with a “Hot” warning light which will flash whenever the plate temperature is above 50°C and will operate even when the hotplate is turned off and connected to the mains.

CB300

Ordering Information

Model	Description
CB300	Hotplate, ceramic top, analogue
SB300	Hotplate, metal top, analogue
SR3	Retort rod bracket
SR1	Retord rod, 600mm x 12mm

SB300

Key Features

- Choice of top plate material, metal or ceramic
- Large plate area ideal for heating multiple vessels
- Accommodates up to 30 x 100ml beakers

CB500

SB500

CB500 and SB500

Hotplates, large capacity,

These large rectangular shaped hotplates are ideal for heating many smaller vessels simultaneously, e.g. in educational use where lots of students require their samples heated at the same time.

An easy to use knob located on the front of the hotplate controls the top plate temperature. The robust side arms make the unit very easy to carry.

The large surface area may stay hot for a long time after use, so for maximum safety, a bright red hot warning light will continue to flash until the hotplate is cool.

There are two models to choose from:
Model CB500 has a glass ceramic top plate. It is easy to clean in the event of spillage and, due to unique thermal properties, can be heated to very high temperatures giving very fast heat up times.

Model SB500 has an aluminum / silicon alloy top plate. This material has very good conductive properties so will give a very even plate temperature. This means all samples, no matter where they are placed on the hotplate, will be subjected to the same conditions for excellent uniformity and reproducibility.

Technical Specification

	CB500	SB500
Plate material	Glass ceramic	Al/Si alloy
Plate dimensions, mm	300 x 500	300 x 500
Heated area, mm	250 x 450	300 x 500
Heater power, W	2250	1500
Max. plate temp. °C	375	300
Dimensions, mm (w x d x h)	520 x 360 x 130	520 x 360 x 130
Net weight, kg	12	12
Electricity supply	230V, 50-60Hz	230V, 50-60Hz
IP Rating	31	31

Ordering Information

Model	Description
CB500	Hotplate, ceramic top, analogue
SB500	Hotplate, metal top, analogue
SR3	Retort rod bracket
SR1	Retord rod, 600mm x 12mm

SD300 and SD500

Hotplates, digital,

Metal top plate gives very even plate temperature and uniform heating conditions. Hotplates with microprocessor control for accurate monitoring of the plate temperature. Large capacity to accommodate multiple vessels or microscope slides.

Technical Specification

	SD300	SD500
Plate dimensions, mm	300 x 300	300 x 500
Heater power, W	600	1500
Display resolution, °C	1	1
Max. plate temp., °C	300	300
Dimensions, mm (w x d x h)	320 x 370 x 105	520 x 360 x 130
Net weight, kg	6	12
Electricity supply	230V, 50-60Hz	230V, 50-60Hz
IP Rating	31	31

Ordering Information

Model	Description
SD300	Hotplate, digital, 300 x 300mm
SD500	Hotplate, digital, 300 x 500mm
SR3	Retort rod bracket
SR1	Retord rod, 600mm x 12mm

Key Features

- Digital setting and control of plate temperature
- Accurate temperature control by microprocessor
- Easy to use controls

SD300

Key Features

- Very efficient heating saving time and energy
- Chemically resistant ceramic top
- “Hot” warning light for user safety

CR300

CR300

Hotplate, Infra Red, Ceramic

Using a very efficient infra red heater of just 900W power this hotplate will boil 1 litre of water over 30% faster than a conventional ceramic hotplate of 1200W. Ideal for heating large volumes of liquid.

Technical Specification

Plate dimensions, mm	300 x 300
Heated area, mm	140 diameter
Heater power, W	900
Dimensions, mm (w x d x h)	320 x 370 x 105
Net weight, kg	4
Electricity supply	230V, 50-60Hz, 900W
IP Rating	31

Ordering Information

Model	Description
CR300	Hotplate, infra red

CP300

Hotplate, acid resistant,

A heated glass ceramic plate mounted in a block of pure PTFE creates a powerful hotplate which is almost impervious to chemical attack, even by concentrated acids.

When boiling acid solutions the CP300 is unaffected by the fumes and splashes which eventually destroy conventional hotplates. The chemical inertness of the PTFE body and ceramic top plate also means that much more aggressive cleaning agents can be used. For example, if all traces of metal must be removed, this hotplate can be washed with concentrated nitric acid!

The separate temperature controller is connected to the hotplate via a 2 metre PTFE coated lead. This allows the hotplate to be located in a fume cupboard and the controller kept outside, well away from the corrosive environment.

The controller is also fitted with a "Hot" warning light that will flash whenever the plate temperature of the hotplate is above 50°C and it will continue to operate when the hotplate is turned off and connected to the electricity supply.

The hotplate has a large 200mm square heated area so is ideal for heating either one large vessel or several smaller ones.

Technical Specification

Plate material	Glass ceramic
Body material	PTFE
Plate dimensions, mm	300 x 300
Heated area, mm	200 x 200
Heater power, W	900
Max. plate temperature, °C	400
Hotplate dimensions, mm, (w x d x h)	320 x 360 x 60
Control unit dimensions, mm, (w x d x h)	150 x 160 x 65
Net weight, kg	11
Electrical supply	230V, 50-60Hz
IP Rating	43 (Plate) & 30 (Control)

Key Features

- A completely new concept in hotplates
- PTFE construction with glass ceramic plate for exceptional resistance to chemical attack
- Ideal for acid digestions or trace metal analysis
- Separate control box connected with a PTFE coated lead

CP300

Ordering Information

Model	Description
CP300	Hotplate, acid resistant, including control unit