



Hotplate Stirrers

with BioCote® antimicrobial protection

Digital / LED temperature indicator

Choice of surfaces

Hot warning light

Compact design to save bench space

Small footprint

Units can be stored on side

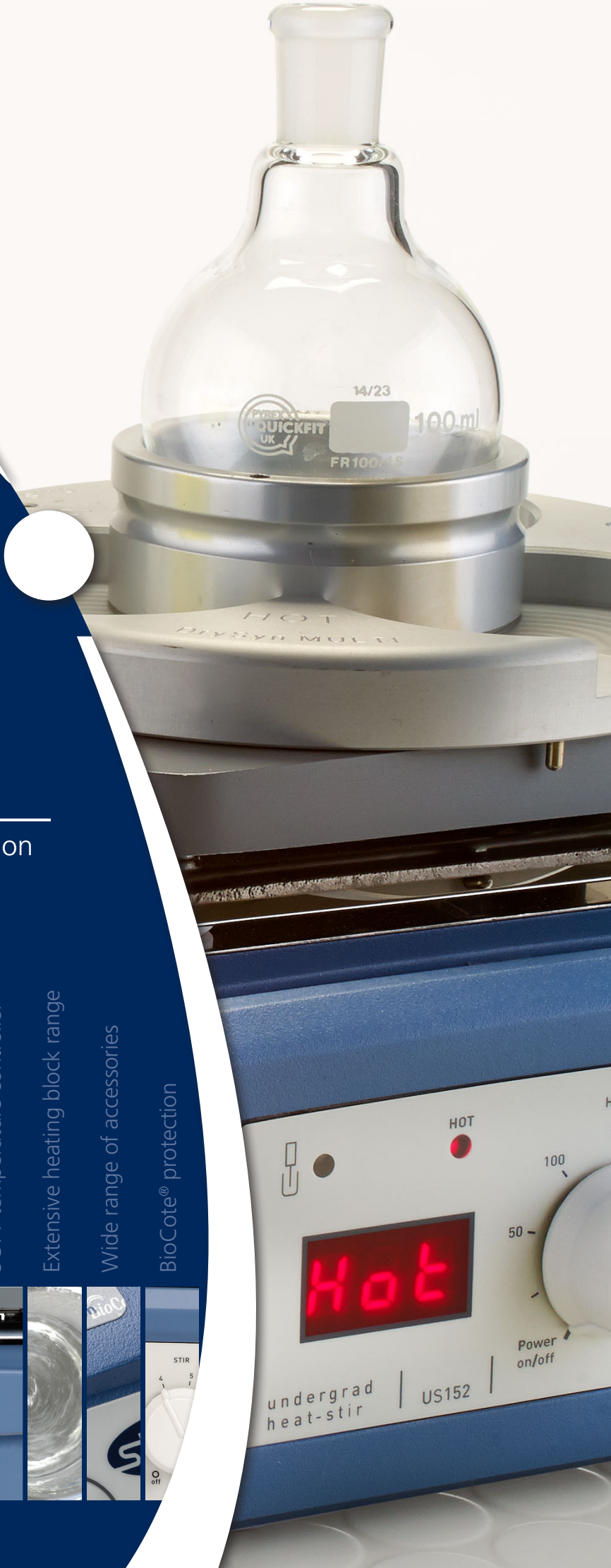
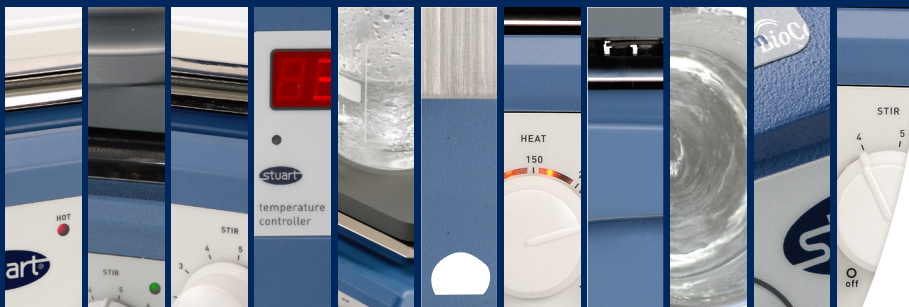
Design allows retort base

SCT1 temperature controller

Extensive heating block range

Wide range of accessories

BioCote® protection



undergrad heat-stir | US152

Undergrad Hotplates

The Stuart® range of Undergrad hotplates includes dedicated hotplates and stirrers as well as combination hotplate stirrer models, the majority of which are available in a choice of ceramic or coated metal tops. Hotplate Stirrer units are also available with a digital display to accurately control the hotplate surface temperature. All surfaces are square to allow more flexibility in vessel sizes and combinations, for example four 250ml beakers can easily be accommodated.

Key features

- LED temperature indicator on analogue units
- Digital display of surface temperature on digital models
- Choice of glass ceramic or ceramic coated metal surface
- Hot warning light, remains active even when unplugged
- Compact design to save bench space
- Units can be stored on side, minimising required storage space
- Design allows retort base to slide underneath
- Compatible with SCT1 temperature controller



LED Temperature indicator

All analogue hotplate models in the Undergrad range feature a true °C temperature setting, rather than a 1 to 10 arbitrary scale. The LED temperature indicator surrounds the heater control knob and progressively illuminates to indicate the actual surface temperature. This not only provides a bright, obvious indication that the unit is hot, which can be seen from across the room, but also clearly differentiates the heat and stir controls.

Digital display

Digital versions of both the ceramic and ceramic coated metal hotplate stirrers are also available. These units replace the LED temperature indicator with a digital display, for those users who want to more accurately observe the hotplate surface temperature. Both digital units, the UC152D & US152D are compatible with the SCT1 temperature controller, for precise sample temperature control.



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Safety in design

For safety all units have been designed to direct any spills away from the user controls. A mains switch is standard (excluding Stir only models) for greater convenience and power saving. All units incorporate the latest technology, microprocessor controlled, dual thermocouples to ensure accurate temperature control and over temperature protection.

Power

Powerful magnets and motor give stirring speeds up to 2000rpm and are capable of mixing large volumes (up to 15 litres).



Hot warning light

All hotplate models feature a "Hot" warning light, which will flash once the hotplate surface reaches 50°C. The "Hot" light will continue to flash even once the unit has been switched off and unplugged from the mains, until the surface temperature drops below 50°C.

Design

The Undergrad range has been designed so the units can be easily stored on their side, minimising the required storage space. The entire range of hotplate stirrers feature an integral fitting for a retort rod, but the units are also uniquely designed to allow a retort base to slide underneath, saving valuable time where numerous units need to be set up, for example in an educational environment.



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Choice of surfaces

The hotplates and hotplate stirrers come with a choice of surfaces; available in a choice of ceramic or coated metal tops, all surfaces are square to allow more flexibility in vessel sizes and combinations.



Glass Ceramic

Glass ceramic for excellent chemical resistance. The surface is easy to clean and the thermal properties allow very high plate temperatures, while ensuring the edges stay cooler, reducing the chance of accidental burns. The white surface ensures good visibility of colour changes, for example during titrations.



Ceramic Coated

Ceramic coated Aluminium/silicon alloy for robustness. 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.



Stainless Steel

Robust Stainless steel (US151 only), for accurate stirring. This surface won't produce eddy currents like aluminium and ensure a very powerful coupling and stirring action on our dedicated stirrers.



Also available to compliment your Stuart Hotplate SCT1 Temperature controller

All hotplate models are compatible with the Stuart® SCT1 temperature controller. In conjunction with your Undergrad hotplate the SCT1 ensures accurate temperature control of heating blocks, aqueous or oil based samples, up to a maximum of 200°C. The units automatically detect when the SCT1 temperature controller is plugged in.

Providing reassurance that the temperature of the sample is precisely controlled at all times. A range of accessories is also available to allow for a complete set up of controller, temperature probe and stirrer hotplate.

Stuart range of heating blocks

The Stuart range of heating blocks have been developed in conjunction with DrySyn to provide the best possible solution for heating round bottom flasks. Combined with the Stuart range of undergrad hotplates and hotplate stirrers, the Stuart heating blocks provide the cleanest and safest method for synthesis of single or multiple reactions, whilst giving equal or better heating performance than silicon oil.

The modular nature of the Stuart heating block system gives you the greatest degree of flexibility, two sizes of base plates are available to accommodate up to three blocks each, SHB100BASE can take blocks for up to 100ml flasks while the SHB250BASE accepts blocks for up to 250ml flasks. Handy cost saving starter kits are also available, combining the

base plate with a selection of blocks to get you up and running. All block sizes are also available separately in packs of three.

For larger volume reactions a third base plate is available, the SHB1000BASE accepts a single insert for up to 500ml and also includes heat resistant handles for safe and easy lifting.

The high quality anodised blocks offer excellent chemical and solvent resistance, and the low well has been proven to offer excellent temperature transfer without compromising your view of the reaction or risking cracking the glassware. The low well also ensures that the blocks are compatible with multi neck flasks.

Choose a base

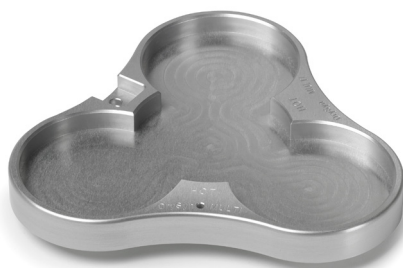
Up to 100ml base

SHB100BASE



Up to 250ml base

SHB250BASE



Up to 500ml base

SHB1000BASE



Choose your inserts

5ml insert

SHB5ML



10ml insert

SHB10ML



25ml insert

SHB25ML



50ml insert

SHB50ML



100ml insert

SHB100ML



250ml insert

SHB250ML



50ml large insert

SHB50C*



100ml large insert

SHB100C*



250ml large insert

SHB250C*



500ml insert

SHB500C*



* Only compatible with SHB1000BASE

Undergrad Hotplates

The Stuart® range of Undergrad hotplates includes dedicated hotplates and stirrers as well as combination hotplate stirrer models, the majority of which are available in a choice of ceramic or coated metal tops. All surfaces are square to allow more flexibility in vessel sizes and combinations, for example four 250ml beakers can easily be accommodated.



Model	US152D	UC152D	US152
Plate Material	Coated Aluminium/Silicon	Glass ceramic	Coated Aluminium/Silicon
Plate Dimensions, mm	150 x 150	150 x 150	150 x 150
Heated Area, mm	150 x 150	120 x 120	150 x 150
Heater Power, Watt	700	500	700
Max plate temp, °C	325	450	325
Temperature display	LED	LED	n/a
Stirrer Speed, rpm	100 - 2000	100 - 2000	100 - 2000
Maximum Stirring Capacity, L *	15	15	15
Compatible with SCT1	Yes	Yes	Yes
Control accuracy with SCT1	±1°C	±1°C	±1°C
Dimensions (w x d x h), mm	172 x 248 x 120	172 x 248 x 122	172 x 248 x 120
Net weight, kg	2.9	2.9	2.9
Power	750W	550W	750W
Electrical supply (230V)	230V, 50Hz	230V, 50Hz	230V, 50Hz
Electrical supply (120V) ⁺	120V, 60Hz ⁺	120V, 60Hz ⁺	120V, 60Hz ⁺
IP Rating	32	32	32

* Based on water contained in a 20 litre glass bottom flask

⁺ Please use 120V part number

230V Ordering Information

Model	Description
UC152D	Digital Stirrer/hotplate, ceramic plate, 230V / 50Hz
US152D	Digital Stirrer/hotplate, coated aluminium plate, 230V / 50Hz
UC152	Stirrer/hotplate, ceramic plate, 230V / 50Hz
US152	Stirrer/hotplate, coated aluminium plate, 230V / 50Hz
UC150	Hotplate, ceramic plate, 230V / 50Hz
US150	Hotplate, coated aluminium plate, 230V / 50Hz
UC151	Stirrer, ceramic plate, 230V / 50Hz
US151	Stirrer, stainless steel plate, 230V / 50Hz



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BioCote® antimicrobial protection



BioCote® has been offered exclusively by Stuart®, for the Stuart® range of benchtop equipment since 2006. BioCote® utilises silver technology to provide built in antimicrobial protection, so the Stuart® range can help create a safer and more hygienic laboratory environment. By reducing levels of bacteria, mould and fungi, your BioCote® protected piece of Stuart® equipment can help reduce the risk of cross contamination and consequently infection within the laboratory. To find out more about the benefits of BioCote® with Stuart® benchtop equipment please visit www.stuart-equipment.com



UC152	US151	UC151	US150	UC150
Glass ceramic	Stainless steel	Glass ceramic	Coated Aluminium/Silicon	Glass ceramic
150 x 150	150 x 150	150 x 150	150 x 150	150 x 150
120 x 120	n/a	n/a	150 x 150	120 x 120
500	n/a	n/a	700	500
450	n/a	n/a	325	450
n/a	n/a	n/a	n/a	n/a
100 - 2000	100 - 2000	100 - 2000	n/a	n/a
15	15	15	n/a	n/a
Yes	No	No	Yes	Yes
±1°C	No	No	±1°C	±1°C
172 x 248 x 122	172 x 248 x 109	172 x 248 x 107	172 x 248 x 120	172 x 248 x 122
2.9	2.0	2.0	2.2	2.2
550W	50W	50W	700W	500W
230V, 50Hz	230V, 50Hz	230V, 50Hz	230V, 50Hz	230V, 50Hz
120V, 60Hz ⁺	120V, 60Hz ⁺	120V, 60Hz ⁺	120V, 60Hz ⁺	120V, 60Hz ⁺
32	32	32	32	32

120V Ordering Information

Model	Description
UC152D/120V/60	Digital Stirrer/hotplate, ceramic plate, 120V / 60Hz
US152D/120V/60	Digital Stirrer/hotplate, coated aluminium plate, 120V / 60Hz
UC152/120V/60	Stirrer/hotplate, ceramic plate, 120V / 60Hz
US152/120V/60	Stirrer/hotplate, coated aluminium plate, 120V / 60Hz
UC150/120V/60	Hotplate, ceramic plate, 120V / 60Hz
US150/120V/60	Hotplate, coated aluminium plate, 120V / 60Hz
UC151/120V/60	Stirrer, ceramic plate, 120V / 60Hz
US151/120V/60	Stirrer, stainless steel plate, 120V / 60Hz



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Ordering Information

Model	Description
UC152D	Digital Stirrer/hotplate, ceramic plate, 230V / 50Hz
US152D	Digital Stirrer/hotplate, coated aluminium plate, 230V / 50Hz
UC152	Stirrer/hotplate, ceramic plate, 230V / 50Hz
US152	Stirrer/hotplate, coated aluminium plate, 230V / 50Hz
UC150	Hotplate, ceramic plate, 230V / 50Hz
US150	Hotplate, coated aluminium plate, 230V / 50Hz
UC151	Stirrer, ceramic plate, 230V / 50Hz
US151	Stirrer, stainless steel plate, 230V / 50Hz
UC152D/120V/60	Digital Stirrer/hotplate, ceramic plate, 120V / 60Hz
US152D/120V/60	Digital Stirrer/hotplate, coated aluminium plate, 120V / 60Hz
UC152/120V/60	Stirrer/hotplate, ceramic plate, 120V / 60Hz
US152/120V/60	Stirrer/hotplate, coated aluminium plate, 120V / 60Hz
UC150/120V/60	Hotplate, ceramic plate, 120V / 60Hz
US150/120V/60	Hotplate, coated aluminium plate, 120V / 60Hz
UC151/120V/60	Stirrer, ceramic plate, 120V / 60Hz
US151/120V/60	Stirrer, stainless steel plate, 120V / 60Hz
SCT1	Digital temperature controller
SCT1/1	Accessory probe holder
SCT1/2	PTFE temperature probe
SR1	Retort rod, 600mm x 12mm diameter

Heating Blocks Ordering Information

Model	Description
SHB100KIT9	Stuart heating blocks kit: including flat base plate SHB100BASE and (3 x 25ml SHB25ML), (3 x 50ml SHB50ML) and (3 x 100ml SHB100ML) inserts.
SHB100KIT3	Stuart heating blocks kit: Base + (1 x 25ml), (1 x 50ml) and (1 x 100ml) inserts
SHB250KIT6	Stuart heating blocks kit: including flat base SHB250BASE (3x250ml SHB250ML) and (3x100ml SHB100ML) inserts.
SHB250KIT3	Stuart heating blocks kit: including base SHB250BASE + (3x250ml SHB250ML) inserts
SHB100BASE	Stuart heating blocks flat base, up to 100ml
SHB250BASE	Stuart heating blocks flat base, up to 250ml
SHB5ML	Stuart heating blocks 5ml inserts, pack of 3
SHB10ML	Stuart heating blocks 10ml inserts, pack of 3
SHB25ML	Stuart heating blocks 25ml inserts, pack of 3
SHB50ML	Stuart heating blocks 50ml inserts, pack of 3
SHB100ML	Stuart heating blocks 100ml inserts, pack of 3
SHB250ML	Stuart heating blocks 250ml inserts, pack of 3
SHB100CLAMP	Stuart 3-position Clamp for use with SHB100BASE
SHB250CLAMP	Stuart 3-position Clamp for use with SHB250BASE
SHB1000KIT	Stuart large heating blocks kit: including 1000ml flat base and 4 adapters for 50ml, 100ml, 250ml and 500ml.
SHB1000BASE	Stuart large heating block base only
SHB50C	Stuart large heating block 50ml insert*
SHB100C	Stuart large heating block 100ml insert*
SHB250C	Stuart large heating block 250ml insert*
SHB500C	Stuart large heating block 500ml insert*

* Only compatible with SHB1000BASE

Contact



Bibby Scientific - UK (Group HQ)

Beacon Road, Stone, Staffordshire,
ST15 0SA, United Kingdom
Tel: +44 (0)1785 812121
Fax: +44 (0)1785 813748

sales@bibby-scientific.com



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