

Key Features

Three plate options:
glass ceramic,
ceramic-coated
aluminum
or stainless steel

BioCote®
antimicrobial
protection

Designed to direct
spills away from
control panel

Square plate shape
offers flexibility
of vessel sizes &
combinations

Aluminum casing
for longevity

Compact &
stackable

Retort stand
easily nests
underneath unit

Hot warning light
remains on even
when unplugged

Illuminating LED dial or
digital display for progressive
temperature readings



Temperature Controller

All hotplate models are compatible with the Stuart SCT2 temperature controller. Together with your Undergrad hotplate, the SCT2 ensures accurate temperature control of aqueous or oil based samples, up to a maximum of 200°C. The SCT2 temperature controller is automatically detected when plugged in.

Probe Holder—clamps on to the retort rod to allow secure positioning of the temperature probe in the sample.

Retort Rod—securely screws into the rear of all models of hotplates and hotplate stirrers.

PTFE Probe—chemically-resistant probe for accurate monitoring of hazardous or corrosive samples.



Technical Specifications

SCT2 Temperature Controller

Model	SCT2
Sensor Type	PT100
Probe	Stainless Steel
Temperature Range, °C	50 to 200
Accuracy, °C	±0.5
Resolution, °C	1
Dimensions (w x d x h), mm	90 x 75 x 123
Weight, kg	0.3 kg (inc. probe)
Ordering Number	04807-90



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Technical Spec Chart



US150



US151



UC150



UC151



US152



US152D



UC152



UC152D

Model	Plate Material	Plate Dimensions, mm	Heated Area, mm	Heater Power, Watt	Max Plate Temp, °C	Stirrer Speed, rpm	Max Stirring Capacity, L	Compatible with SCT2	Control Accuracy w/ SCT2, °C	Dimensions (w x d x h), mm	Net weight, kg	Power, Watt	Electrical Supply	IP Rating	Digital Display Version
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Hotplate Stirrers

US152	Coated Aluminium/Silicon	150 x 150	150 x 150	700	325	100 - 2000	15	Yes	±0.5	180 x 255 x 122	3.1	750	120V, 60Hz or 230V, 50Hz,	32	N
US152D	Coated Aluminium/Silicon	150 x 150	150 x 150	700	325	100 - 2000	15	Yes	±0.5	180 x 255 x 122	3.1	750	120V, 60Hz or 230V, 50Hz,	32	Y
UC152	Glass Ceramic	150 x 150	120 x 120	500	450	100 - 2000	15	Yes	±0.5	180 x 255 x 122	3.1	550	120V, 60Hz or 230V, 50Hz,	32	N
UC152D	Glass Ceramic	150 x 150	120 x 120	500	450	100 - 2000	15	Yes	±0.5	180 x 255 x 122	3.1	550	120V, 60Hz or 230V, 50Hz,	32	Y

Hotplates

US150	Coated Aluminium/Silicon	150 x 150	150 x 150	700	325	-	-	Yes	±1°C	180 x 255 x 122	2.5	700	120V, 60Hz or 230V, 50Hz,	32	-
UC150	Glass Ceramic	150 x 150	120 x 120	500	450	-	-	Yes	±1°C	180 x 255 x 122	2.5	500	120V, 60Hz or 230V, 50Hz,	32	-

Stirrers

US151	Stainless Steel	150 x 150	-	-	-	100 - 2000	15	No	-	180 x 255 x 109	2.4	50	120V, 60Hz or 230V, 50Hz,	32	-
UC151	Glass Ceramic	150 x 150	-	-	-	100 - 2000	15	No	-	180 x 255 x 109	2.4	50	120V, 60Hz or 230V, 50Hz,	32	-



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Conversation Starters

How old are the hotplates in your laboratory?

Might be time for an update! Old laboratory equipment can be inefficient and cause electrical shortages. For power and heating efficiency, the new Cole-Parmer Stuart hotplate units are built with a standard mains switch and microprocessor-controlled dual thermocouples to ensure accurate temperature control and protection from overheating.

Do you need a combination hotplate & stirrer?

If you rarely heat and stir samples, a simple magnetic stirrer and a separate hot plate will be fine. If you typically heat and stir samples, a combination hotplate/stirrer will be more efficient.

Do you need an overhead stirrer or a magnetic stirrer?

Overhead stirrers are best suited for larger sample volumes over 15 liters.

Magnetic stirrers work best with commonly used glass containers for various chemical reactions. They are also available with a hot plate for simultaneous stirring and heating of samples.

Applications for magnetic stirrers: If you are working with relatively small experiments and sample volumes, it is recommended to go with magnetic stirrers. Most compact magnetic stirrer models have a 3 liter capacity (the Cole-Parmer Stuart capacity offers a 15 liter capacity).

Benefits of magnetic stirrers: low-noise, better efficiency, lesser instances of external parts breaking or wearing out.

Do you require temperature precision control?

Digital units have an LED display that shows real-time temperature readings for easy adjustment to achieve and maintain desired levels. When more precise sample temperature readings are required, an additional digital temperature probe is recommended.

What type of plate do you need?

Using the right hot plate material can help improve efficiency. Consider your minimum and maximum temperature range needs. Hot plates consisting of a metal plate or a ceramic plate vary in performance between 325°C and 450°C.

Glass Ceramic: Excellent chemical resistance; easy-to-clean; very high 450°C maximum plate temperature, edges stay cooler to reduce accidental burns. The white surface ensures good visibility of any changes in sample color (such as titration reactions).

Ceramic-Coated Aluminum: Ceramic-coated aluminum/silicon alloy offers robustness. The thin ceramic coating provides added chemical resistance and a 700W element offers rapid heating.

Stainless Steel: Aids accurate stirring. Unlike aluminum, it does not produce eddy currents and ensures robust coupling and a powerful stirring action.



Conversation Starters

Are you familiar with BioCote®?

BioCote® technology is formulated from silver ion additives that are chemically bound in the hot plate material to provide long-lasting antimicrobial protection for a more hygienic laboratory.

How does BioCote® work?

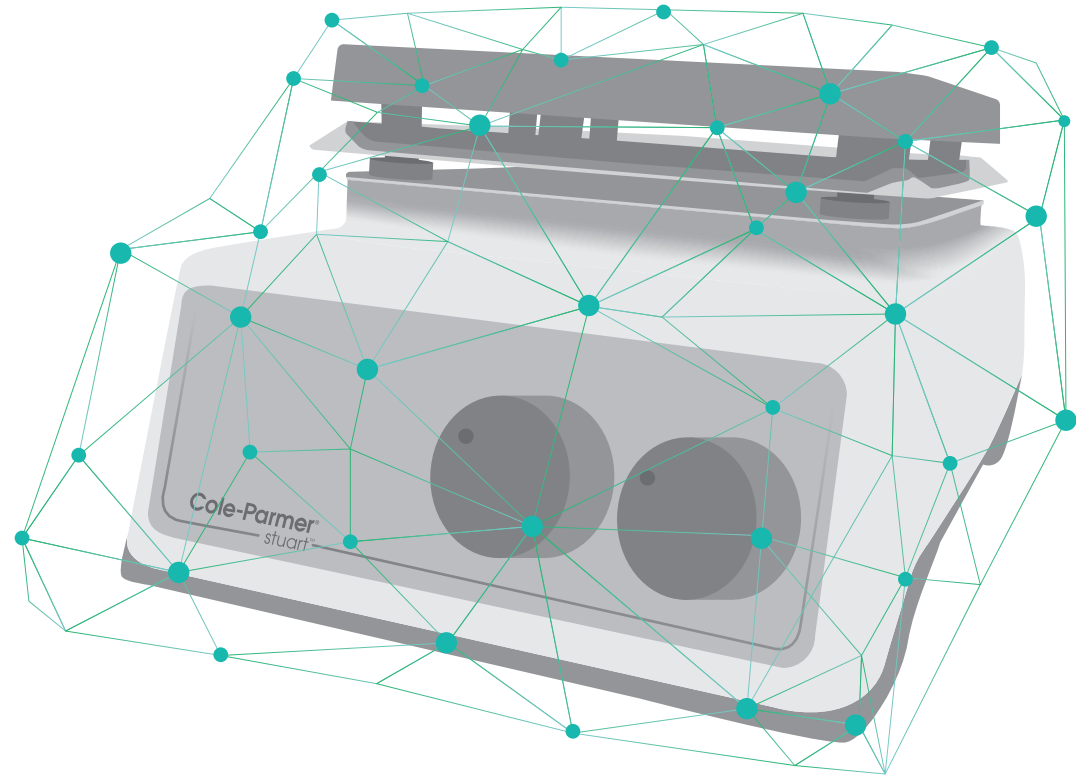
BioCote® inhibits the ability of bacteria to reproduce. Without the ability to reproduce, the bacteria will naturally die, normally within 8 hours. This has the effect of reducing bacteria levels by up to 99.99% during an 8-hr period. On a non-protected product, the levels of bacteria could grow exponentially.

What types of bacteria is BioCote® effective against?

BioCote® will effectively protect against a wide range of bacteria and fungi such as *Aspergillus niger* (Black Mold), *Streptococcus faecalis*, *Salmonella enteritidis*, *Staphylococcus aureus* (MRSA), *Escherichia coli* and *Listeria monocytogenes* for the useful life of the equipment. BioCote is also effective against antibiotic-resistant bacteria, including MRSA.

Does BioCote® rub off or lose efficacy over time?

No, the active agent in BioCote® is chemically bound to the material during manufacturing. The ions remain active for the life of the product and cannot be rubbed off. BioCote® technology is proven to offer antimicrobial protection for the expected lifetime of the product.



Related products

Pipettes & Pipette Service • Peristaltic Pumps • Centrifuges & Vortexers • Baths & Circulators • Shakers & Rockers • Data Loggers & pH Meters • Distillation Systems • Balances & Weigh Dishes

Microbiology • Pharma & Biotech • Medical & Clinical • Biosciences • Microbiology • Biopharma • Environmental • Bioresources & Energy • Metabolics & Kinetics • Food & Beverage • Separation Purification • Mining & Metallurgy

Other Q&As

Are the units programmable? No

Do they have data logging capacity? No

Do they have an automatic timer? No

Can I use an external probe? Yes

Can I run the hot plate stirrer continuously? Yes

What is the maximum stirring speed and capacity? Up to 2000 rpm and 15 liters of liquid

Does the LED temperature indicator display a true temperature of the plate or is it just a rough indication? It shows the true temperature

Does the digital unit display stirring speeds? No, the LCD only displays the temperature reading of the plate. The stirring is analog.

Are stainless steel heating mantle blocks accessories compatible? Yes



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