



SI505

Microtitre Plate, Shaking Incubator

Stuart® has extended its range of shaking incubators with the addition of the SI505, a shaking incubator designed specifically for use with microtitre plates. All Stuart® incubators are specially designed for accurate and reproducible temperature controlled applications and have state of the art microprocessor detection, setting and control of temperature. And of course as Stuart® products, they come as standard with BioCote® antimicrobial protection.



Introducing the SI505

Following on from the incredible success of the SI500, Stuart® is proud to launch the SI505, microtitre plate shaking incubator. The SI505 carries many of the proven features of the SI500 but also offers ideal conditions for effective mixing of small sample volumes, such as those found in microtitre plates and micro tubes.

- Ideal shaking action for microtitre plates
- Combined Incubator shaker
- Optimised performance to minimize sample evaporation
- Digital display of temperature and speed
- Integrated timer
- Retractable platform for easy loading and unloading



Specific mixing

Shaking is ideal for mixing microtitre plates, combining a high speed action between 250 and 1250rpm with a tight orbit of 1.5mm. This enables even the smallest of vessels to adequately mix, be it well plates or micro tubes. The SI505 has independent control of speed and temperature to avoid accidental temperature adjustment. Speed is microprocessor controlled and set via the digital LED control panel. The unit also incorporates a versatile timer, which can be set from 1 second to 9 days; once the timer has run down, an alarm will sound and the shaking action will cease. For safety reasons the incubator will continue to run at the set temperature.

Easy to use control panel

The temperature of the incubator can be set, via the digital LED control panel, between ambient temperature +7°C and 60°C. Careful control of the air distribution within the incubator ensures temperature uniformity throughout the sample chamber. To minimize sample evaporation the SI505 is supplied with stainless steel water trays, these are strategically placed within the unit to maintain a humidity of up to 80%, thus dramatically reducing sample evaporation over a 24 hour period.

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SI505's stainless steel platform is retractable; it allows easier access to samples at the back of the incubator. During operation the platform is securely locked in place, but can be easily raised/lowered when required. The platform will comfortably and securely accommodate up to 12 microtitre plates on the non slip mat. Sample tube racks are also available which will accommodate all common tube sizes.

ever communications

SI505 also features a USB connection which allows the incubator to be connected to a PC for long term monitoring of the incubator temperature, over night or weekends for example.

Below: SI505



Above: SI500

Complementing the SI500

The Stuart® SI500 is unrivalled as a combined shaker/incubator, offering perfectly controlled and uniform conditions for biological growth. With a compact design to fit the laboratory bench, the SI500 is the ideal tool for cell culture procedures, especially suspension culture applications.

The SI505 complements our already successful SI500, shaking incubator. The SI500 offers the following features:

- Orbital shaking incubation
- Digital display and control
- Adjustable sample cradle
- Retractable platform
- Magnalock accessory racks
- USB Communications



SI500 Accessories

A wide range of stainless steel accessory racks are available to hold 1.5ml, 15ml, 30ml and 50ml sample tubes. The angle of the tubes can be adjusted up to 30°. Accessory racks are held to the orbiting platform by a patent pending Magnalock system, allowing quick coupling and de-coupling without tools.

Technical Specification

	SI505	SI500
Temperature range	Ambient + 7°C to 60°C	Ambient + 5°C to 60°C
Samples	4 x microtitre plates or 2 x micro tube racks	Adjustable platform for flasks, bottles, beakers or Magnalock tube racks
Temperature display resolution	0.1°C	0.1°C
Temperature fluctuation	± 0.5°C at 37°C	± 0.5°C
Temperature variation	< 0.6°C at 37°C	< 0.5°C
Temperature precision	± 0.5°C at 37°C	± 0.5°C
Speed range	250 to 1250rpm	30 to 300rpm
Speed control	Digital set in 10rpm increments	Digital set in 1rpm increments
Timer	min/sec, hour/min, days/hours	min/sec, hour/min, days/hours
Orbit diameter, mm	1.5	16
Platform size, mm	220 x 220	335 x 335
Relative humidity	~80% (using water trays)	N/A
Internal dimensions, mm	307 x 300 x 190 (w x d x h)	422 x 408 x 297 (w x d x h)
Maximum load, kg	1	10
Overall dimensions, mm	361 x 405 x 430 (w x d x h)	450 x 474 x 522 (w x d x h)
Net weight, kg	22.5	30
Heater power, W	200W	250W
Electrical supply	230V, 50Hz, 250W	230W, 50Hz, 300W
IP Rating	31	31

Ordering Information

Model	Description
SI505	Microtitre plate shaker incubator
SI500	Incubator, orbital shaker

SI505 Accessories	Description
SSM5/1	Tube holder for 1.5ml tubes
SSM5/2	Tube holder for 0.5ml tubes
SSM5/3	Tube holder for 0.2ml tubes

SI500 Accessories	Description
SI500/1	Tube rack, 64 x 1.5ml micro tubes
SI500/2	Tube rack, 25 x 15ml centrifuge tubes
SI500/3	Tube rack, 12 x 50ml centrifuge tubes
SI500/4	Tube rack, 16 x 30ml universal containers

(Please note: The Stuart incubator accessories are not exchangeable between units)

Science Equipment with 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



Bibby Scientific Limited
Beacon Road, Stone,
Staffordshire, ST15 0SA,
United Kingdom

Tel: +44 (0)1785 812121
Fax: +44 (0)1785 810405
e-mail: sales@bibby-scientific.com
www.stuart-equipment.com