



96 well microtitre plate shaker incubator



Incubator range

with BioCote® antimicrobial protection

Stuart® has a number of incubators specially designed for accurate and reproducible temperature controlled applications. All incubators have state of the art microprocessor detection, setting and control of temperature.



Stuart range of shaking incubators

Stuart® now offers a comprehensive range of benchtop, shaking incubators. Ideal for scientists performing cell culturing procedures, especially suspension culture applications. All units are compact enough to be positioned on the laboratory bench. While the SI505 offers identical incubation conditions with a shaking action that is ideal for microtitre plates or micro tubes.

When combined with the SRC4 recirculating cooler, or equivalent, the SI600C can operate at temperatures down to 15°C below ambient (minimum 5°C) making it ideal for low temperature applications, such as cell based protein expression.

Every Stuart® shaking incubator comes as standard with BioCote® antimicrobial protection and a three year warranty.

Key Features

- Combined incubator shakers
- SI600C is also available with cooling*
- 51 or 115 Litre capacity available
- Digital display for temperature and speed
- Integrated timer
- Unique retractable platform for easy loading and unloading
- Angle adjustable accessory tube racks, with Magnalock coupling system available
- Communications enabled for external temperature measurement

SI600C

Cooled Incubator*



SI505

For microtitre plates

Easy to control

In all models (excluding SI505) the shaker provides an orbital shaking motion, adjustable between 30 to 300rpm with a gentle start action. The shaking speed is microprocessor controlled and set via the digital LED control panel. The incubators also incorporate a versatile digital timer which can be set from 1 second to 9 days. After the timer has counted down the shaking action will stop and an alert will sound, as a safety feature the incubator will continue to run.

The incubators feature smoked acrylic windows in the door and to both sides to allow easy visibility of the samples. In the case of the SI600C all viewing windows are also double glazed to prevent condensation when the unit is set to sub-ambient temperatures. The incubators temperature is set via a separate bright LED display, encoder control ensures that the temperature can be quickly set between:
SI500, SI600 - ambient temperature +5°C and 60°C
SI505 - ambient +7°C and 60°C
SI600C - ambient -15°C (minimum 5°C) and 60°C*
Forced air circulation ensures uniform heating of the load.



Accessories

SI500, SI600 and SI600C: A wide range of stainless steel accessory racks are available to hold 1.5ml, 15ml 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 Magnalock system, allowing quick coupling and decoupling without tools.

SI505: A range of polycarbonate racks are available for 0.2ml, 0.5ml or 1.5ml microtubes.

SI500

Up to 1 Litre flasks



SI600

Up to 2 Litre flasks

Retractable platform

The units all feature a retractable platform. Under normal use the platform is locked in place but whilst accessing your samples the platform can be drawn forward out of the chamber to allow easiest access to samples at the back of the incubator.

Versatile clamping system

The Incubators have a versatile clamping system which secures most sizes and mixtures of flask up to 1 litre on the SI500 and 2 litre on the SI600 & SI600C. Typically, the SI500 platform will accommodate the following Erlenmeyer flasks: 12 x 250 ml, or 9 x 500ml or 4 x 1000ml while the SI600 & SI600C can accommodate the following: 6 x 2000ml, 9 x 1000ml or 15 x 500ml. Rather than a clamping system, the SI505 features a high friction mat to secure microtitre plates or tube racks for microtubes.

Microtitre Plate Incubator

Where the SI505 differs from other Stuart® shaking incubators is in the shaking action. In order to achieve sufficient mixing within well plates or microtubes a much higher shaking speed about a smaller orbit is required. The Shaking action on the SI505 has been optimised, 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.

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.

Technical Specification



	SI505	SI500	SI600	SI600C
Temperature range	Ambient +7 to 60°C	Ambient +5 to 60°C	Ambient +5 to 60°C	Ambient -15°C to 60°C* (minimum. 5°C)
Temperature resolution	0.1°C	0.1°C	0.1°C	0.1°C
Temperature precision	± 0.5°C at 37°C	± 0.5°C	± 0.5°C	± 0.5°C
Temperature fluctuation	± 0.5°C at 37°C	± 0.5°C	± 0.5°C	± 0.5°C
Temperature variation	±0.5°C at 37°C	± 0.5°C	± 0.5°C	± 0.5°C
Speed range, rpm	250 to 1250 rpm	30 to 300 rpm	30 to 300 rpm	30 to 300 rpm
Orbit diameter, mm	1.5	16	16	16
Platform size, mm	526 x 390	335 x 335	526 x 390	520 x 390mm
Capacity, L	17.5	51	115	115
Internal dim. (w x d x h),	307 x 300 x 190	422 x 408 x 297	623 x 465 x 395	625 x 455 x 380mm
Relative humidity	~80% using water trays	-	-	-
Maximum vessel height,	300 mm	250 mm	300 mm	300 mm
Maximum load, kg	1	10	15	10
Dimensions (w x d x h),	361 x 205 x 642	450 x 474 x 522	675 x 542 x 642	675 x 562(592**) x 640mm
Net weight, kg	22.5	30	53	60
Heater power	200W	250W	400W	400W
Electrical supply	230V, 50Hz, 450W	230V, 50Hz, 300W	230V, 50Hz, 450W	230V, 50Hz, 450W
IP Rating	31	31	31	31

* Requires separate recirculating cooler

** 592mm with cooling connectors attached

Ordering Information

Model	Description
SI500	Incubator, orbital shaker
SI505	Microtitre plate shaker incubator
SI600	Incubator, orbital shaker, large
SI600C	Incubator, orbital shaker, large, cooled
SRC4	Recirculating cooler
SI500/IQQ	Incubator, orbital shaker with IQ/OQ documentation
SI505/IQQ	Microtitre plate shaker incubator with IQ/OQ documentation
SI600/IQQ	Incubator, orbital shaker, large with IQ/OQ documentation
SI600C/IQQ	Incubator, orbital shaker, large with IQ/OQ documentation
SI500/1	Tube rack, 1.5ml x 64 microtubes
SI500/2	Tube rack, 15ml x 25 centrifuge tubes
SI500/3	Tube rack, 50ml x 12 centrifuge tubes
SI500/4	Tube rack, 16 x 30ml Universal plastic containers
SSM5/1	Tube holder for 1.5ml tubes
SSM5/2	Tube holder for 0.5ml tubes
SSM5/3	Tube holder for 0.2ml tubes



Magnalock accessory racks

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