



2018

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Further equipment from Stuart on request:

Centrifuges, Flask Shakers, Flocculators, Heating Mantles, Homogenisers, Overhead Stirrers, Recirculating Coolers, Rotary Evaporators, Vortex Mixers.



All Stuart equipment is supplied with the anti-microbial protection BioCote® inhibiting the ability of bacteria to reproduce.

Block Heaters

- Temperature: up to 130 °C or 200 °C
- Heater with digital or analogue control available
- 2 heaters available with independent dual temperature control for 2 blocks (SBH130DC, SBH200DC)
- Aluminum blocks are not included and have to be ordered separately



SBH130



SBH130DC

Cat. No.	Description
SBH130	Block heater for 2 blocks (have to be ordered separately), analogue control , "hot" warning light, temperature range: ambient + 8 °C to 130 °C, ± 0.1 °C
SBH130D	Block heater for 2 blocks (have to be ordered separately), digital control and display, temperature range: ambient + 8 °C to 130 °C, ± 0.1 °C
SBH200D	Block heater for 2 blocks (have to be ordered separately), digital control and display, temperature range: ambient + 8 °C to 200 °C, ± 0.1 °C
SBH130D/3	Block heater for 3 blocks (have to be ordered separately), digital control and display, temperature range: ambient + 8 °C to 130 °C, ± 0.1 °C
SBH200D/3	Block heater for 3 blocks (have to be ordered separately), digital control and display, temperature range: ambient + 8 °C to 200 °C, ± 0.1 °C
SBH130DC	Block heater, with independent dual temperature control for 2 blocks (have to be ordered separately), digital control and display, temperature range: ambient + 8 °C to 130 °C, ± 0.1 °C
SBH200DC	Block heater, with independent dual temperature control for 2 blocks (have to be ordered separately), digital control and display, temperature range: 50 °C to 200 °C, ± 0.1 °C
SBH/2	Safety cover for 2 block models
SBH/3	Safety cover for 3 block and dual control models
SBH/4	Block extraction tool

Aluminium Blocks for use with Stuart Block Heaters

Blocks can be used in different combinations. They all have a separate hole to accommodate a thermometer if desired.

Dimensions of all blocks (w x d x h) 75 x 95 x 50 mm except SHT/96 and SHT1/384 with 150 x 95 x 61 mm. Please note all Block Heaters will only operate effectively if the full compliment of blocks is present.



Cat. No.	Description
SHT1/0	Plain block
SHT1/10	For 20 tubes with a diameter of 10 mm, hole size (Ø x D): 10.5 x 47 mm
SHT1/12	For 20 tubes with a diameter of 12 mm, hole size (Ø x D): 12.6 x 47 mm
SHT1/12/33	For 20 tubes with a diameter of 12 mm, hole size (Ø x D): 12.6 x 33 mm
SHT1/13	For 20 tubes with a diameter of 13 mm, hole size (Ø x D): 13.5 x 47 mm
SHT1/16	For 12 tubes with a diameter of 16 mm, hole size (Ø x D): 16.5 x 47 mm
SHT1/17/1	For 12 tubes with a diameter of 17 mm, hole depth: 47 mm
SHT1/19	For 8 tubes with a diameter of 19 mm, hole size (Ø x D): 19.5 x 47 mm
SHT1/20	For 20 x 2 ml tubes, hole size (Ø x D): 10.5 x 33 mm
SHT1/21	Block with removable channels for glass and disposable cuvettes
SHT1/22	For 20 x 1,5 ml tubes, hole size (Ø x D): 10.7 x 35 mm, 9 ° taper
SHT1/25	For 6 tubes with a diameter of 25 mm, hole size (Ø x D): 25.5 x 47 mm
SHT1/28	For 6 tubes with a diameter of 28 mm, hole size (Ø x D): 28.0 x 47 mm
SHT1/30	For 30 x 0.5 ml tubes, hole size (Ø): 7.8 mm, 9 ° taper
SHT1/30/1	For 4 tubes with a diameter of 30 mm, hole size (Ø x D): 30.1 x 47 mm
SHT1/33	For 4 tubes with a diameter of 33 mm, hole size (Ø x D): 33.2 x 47 mm
SHT1/48	For 48 x 0.2 ml tubes, hole size (Ø): 6.1 mm, 9 ° taper
SHT1/80	For 10 x 8 tube strips (0.2 ml tubes)
SHT1/96	For one 96 well plate
SHT1/384	For one 384 well plate

→ "Flexi Block" - Ceramic Bead Bath for Block Heaters on request.

Sample Concentrator / Evaporator for Block Heaters

- Fast and convenient way of concentrating multiple samples in a block heater at once
- Simple gas delivery system to pass gas over the sample surface via stainless steel needles. In combination with the heat from the block heater below, this results in a fast, efficient evaporation.
- Adjustable stand for accurate height control
- Different gas delivery needles available
- Compatible only with Stuart block heaters SBH130D/3 and SBH200D/3 (page 2)



SBH CONC/1 with SBH200D/3

Cat. No. Description

SBH CONC/1 **Sample concentrator**
(without needles and block heater, have to be ordered separately)

Gas delivery needles for SBH CONC/1

F7209 Needles, 76 mm (pack of 100)
 F7210 Needles, 127 mm (pack of 100)
 FSC4NCS Needles, PTFE coated, 76 mm (pack of 100)
 FSC4NCL Needles, PTFE coated, 127 mm (pack of 100)

Hotplates

- Available with silicon metal alloy (robust for daily use) or ceramic platform-surface (better chemical resistance, higher temperatures)
- Analogue or digital control
- Microprocessor controlled temperature



US150



UC150



CB500



CR300



CP300

Cat. No. Description

US150 **Hotplate with aluminium/silicon alloy top, analogue**, LED display, max. temperature: 325 °C, platform/heated area: 150 x 150 mm, flashing "hot" warning light, compatible with SCT1 temperature controller (page 5), integral fitting for optional retort rod, shaped bottom to place optional retort base underneath the unit

UC150 **Hotplate with glass ceramic top, analogue**, LED display, max. temperature: 450 °C, platform: 150 x 150 mm, heated area: 120 x 120 mm, flashing "hot" warning light, compatible with SCT1 temperature controller (page 5), integral fitting for optional retort rod, shaped bottom to place optional retort base underneath the unit

SD160 **Hotplate with robust aluminium top, digital**, accurate temperature (± 0.2 °C at 37 °C), max. temperature: 325 °C, platform/heated area: 160 x 160 mm, flashing "hot" warning light, integral fitting for optional retort rod

CB300 **Hotplate with glass ceramic top, analogue**, max. temperature: 450 °C, platform: 300 x 300 mm, heated area: 200 x 200 mm, flashing "hot" warning light, integral fitting for optional retort rod

SB300 **Hotplate with aluminium/silicon alloy top, analogue**, max. temperature: 300 °C, platform/heated area: 300 x 300 mm, flashing "hot" warning light, integral fitting for optional retort rod

CB500 **Large hotplate with glass ceramic top, analogue**, for up to 30 x 100 ml beakers, max. temperature: 375 °C, platform: 300 x 500 mm, heated area: 250 x 450 mm, flashing "hot" warning light

SB500 **Hotplate with aluminium/silicon alloy top plate, analogue**, for up to 30 x 100 ml beakers, max. temperature: 300 °C, platform/heated area: 300 x 500 mm, flashing "hot" warning light

SD300 **Hotplate with metal top, digital**, max. temperature: 300 °C, platform/heated area: 300 x 300 mm, flashing "hot" warning light, integral fitting for optional retort rod

SD500 **Hotplate with metal top, digital**, max. temperature: 300 °C, platform: 300 x 500 mm, heated area: 300 x 500 mm, flashing "hot" warning light

CR300 **Infrared hotplate with ceramic top, saving energy and time**, ideal for heating large volumes of liquid, platform: 300 x 300 mm, heated area: 140 mm diameter, flashing "hot" warning light

CP300 **PTFE construction with glass ceramic plate, analogue**, max. temperature: 400 °C, platform: 300 x 300 mm, heated area: 200 x 200 mm, flashing "hot" warning light, highly acid resistant, sealed construction, separate controller

→ Please see page 5 for information on the SCT1 temperature controller, prices for optional retort rod and further accessories (page 5) on request.

Magnetic Stirrers with Hotplate



UC152D



CR302



SB162-3

Cat. No.	Description
US152	Magnetic stirrer with aluminium/silicon alloy top hotplate, analogue , LED display, max. temperature: 325 °C, platform/heated area: 150 x 150 mm, flashing "hot" warning light, stirrer speed: 100 - 2000 rpm, max. stirring capacity: 15 l, compatible with SCT1 temperature controller (page 5), integral fitting for optional retort rod, shaped bottom to place optional retort base underneath the unit
US152/KIT	US152 <u>with</u> SCT1 temperature controller, probe holder SCT1/1 (page 5), and retort rod SR1 (length x diameter: 600 mm x 12 mm)
UC152	Magnetic stirrer with glass ceramic top hotplate, analogue , LED display, max. temperature: 450 °C, platform: 150 x 150 mm, heated area: 120 x 120 mm, flashing "hot" warning light, stirrer speed: 100 - 2000 rpm, max. stirring capacity: 15 l, compatible with SCT1 temperature controller (page 5), integral fitting for optional retort rod, shaped bottom to place optional retort base underneath the unit
UC152/KIT	UC152 <u>with</u> SCT1 temperature controller, probe holder SCT1/1 (page 5), and retort rod SR1 (length x diameter: 600 mm x 12 mm)
US152D	Magnetic stirrer with aluminium/silicon alloy top hotplate, digital , LED display, max. temperature: 325 °C, platform/heated area: 150 x 150 mm, flashing "hot" warning light, stirrer speed: 100 - 2000 rpm, max. stirring capacity: 15 l, compatible with SCT1 temperature controller (page 5), integral fitting for optional retort rod (SR1), shaped bottom to place optional retort base underneath the unit
US152D/KIT	US152D <u>with</u> SCT1 temperature controller, probe holder SCT1/1 (page 5), and retort rod SR1 (length x diameter: 600 mm x 12 mm)
UC152D	Magnetic stirrer with glass ceramic top hotplate, digital , LED display, max. temperature: 450 °C, platform: 150 x 150 mm, heated area: 120 x 120 mm, flashing "hot" warning light, stirrer speed: 100 - 2000 rpm, max. stirring capacity: 15 l, compatible with SCT1 temperature controller (page 5), integral fitting for optional retort rod, shaped bottom to place optional retort base underneath the unit
UC152D/KIT	UC152D <u>with</u> SCT1 temperature controller, probe holder SCT1/1 (page 5), and retort rod SR1 (length x diameter: 600 mm x 12 mm)
CD162	Magnetic stirrer with glass ceramic top hotplate, digital , max. temperature: 450 °C, platform: 160 x 160 mm, heated area: 120 x 120 mm, flashing "hot" warning light, stirrer speed: 200 - 1300 rpm, max. stirring capacity: 15 l, integral fitting for optional retort rod, supplied with PTFE coated probe and 2 x 25 mm PTFE coated stirrer bars
SD162	Magnetic stirrer with aluminium/silicon alloy top hotplate, digital , max. temperature: 300 °C, platform/heated area: 160 x 160 mm, flashing "hot" warning light, stirrer speed: 200 - 1300 rpm, max. stirring capacity: 15 l, integral fitting for optional retort rod, supplied with PTFE coated probe and 2 x 25 mm PTFE coated stirrer bars
SB162-3	3-Position magnetic stirrer with aluminium/silicon alloy top hotplate, analogue , space saving unit with 3 independently controlled stirring/heating positions, max. temperature: 325 °C, each platform/heated area: 160 x 160 mm, separate "hot" warning lights for each plate, stirrer speed: 100 - 1500 rpm, max. stirring capacity: 15 l, integral fitting for optional retort rod for each position, supplied with 3 x 25 mm PTFE coated stirrer bars
CB302	Magnetic Stirrer with large glass ceramic top hotplate, analogue , designed for big beakers, max. temperature: 450 °C, platform: 300 x 300 mm, heated area: 200 x 200 mm, flashing "hot" warning light, stirrer speed: 100 - 1500 rpm, max. stirring capacity: 15 l, integral fitting for optional retort rod, supplied with 2 x 25 mm PTFE coated stirrer bars
SB302	Magnetic stirrer with aluminium/silicon alloy top hotplate, analogue , designed for big beakers, max. temperature: 300 °C, platform/heated area: 300 x 300 mm, flashing "hot" warning light, stirrer speed: 100 - 1500 rpm, max. stirring capacity: 15 l, integral fitting for optional retort rod, supplied with 2 x 25 mm PTFE coated stirrer bars
CR302	Magnetic stirrer with ceramic top infrared hotplate , saves time and energy, fast heating of big volumes, platform: 300 x 300 mm, heated area: 140 mm diameter, flashing "hot" warning light, stirrer speed: 100 - 1500 rpm, max. stirring capacity: 15 l, integral fitting for optional retort rod (page 7), supplied with 2 x 25 mm PTFE coated stirrer bars

→ Please see page 5 for information on the SCT1 temperature controller, prices for optional retort rod and further accessories (page 5) on request.

Magnetic Stirrers without Hotplate

- Compact and large models available
- Available with silicon metal alloy (robust for daily use) or ceramic platform-surface (better chemical resistance, higher temperatures)



US151



SM27



SB161-3

Cat. No. Description

SM5	Mini magnetic stirrer (w x d x h: 143 x 143 x 66 mm), analogue , polypropylene body with chemical resistant polycarbonate top, stirrer speed: 350 - 2000 rpm, max. stirring capacity: 1 l, available in a choice of designs, further details on request
US151	Magnetic stirrer with stainless steel plate , platform: 150 x 150 mm, stirrer speed: 100 - 2000 rpm, max. stirring capacity: 15 l, integral fitting for optional retort rod, shaped bottom to place optional retort base underneath the unit
UC151	Magnetic stirrer with glass ceramic platform , platform: 150 x 150 mm, stirrer speed: 100 - 2000 rpm, max. stirring capacity: 15 l, integral fitting for optional retort rod, shaped bottom to place optional retort base underneath the unit
SB161-3	3-Position magnetic stirrer with stainless steel platform, analogue , unit with 3 independently controlled stirring positions, platform: 550 x 210 mm, stirrer speed: 100 - 1500 rpm, max. stirring capacity: 3 x 2 l or 15 l in a flat bottomed 20 l beaker, integral fitting for optional retort rod (see below) for each position, supplied with 3 x 25 mm PTFE coated stirrer bars
SB301	Large and powerful magnetic stirrer for max. stirring capacity of 30 l, with stainless steel platform , robust construction, platform: 300 x 300 mm, stirrer speed: 100 - 600 rpm, electronic feedback speed control which accurately maintains the set speed, supplied with 1 x 100 mm PTFE coated stirrer bar, integral fitting for optional retort rod
SM27	Portable magnetic stirrer, chemically resistant ABS case , powered by battery or mains power (mains and car battery adaptor has to be ordered separately, see below), tough, compact and light weight, variable speed up to 1300 rpm, ideal for use inside incubators, glove boxes or in the field, supplied with 4 alkaline batteries and 1 x 25 mm PTFE coated stirrer bar
SM27/2	Mains adapter for 230 V
SM27/3	Mains adapter for car battery (12 V)

SCT1 Temperature Controller

For the accurate temperature control of aqueous or oil based samples up to a maximum of 200 °C. Usable with US150, UC150, US152, UC152, US152D and UC152D. The SCT1 is automatically recognized by these units as soon as the SCT1 is connected. Bright, easy to read LED display. The SCT1 features an in-built clamp allowing the controller to be mounted either on a horizontal or vertical retort rod.



SCT1



SCT1 with US152

Cat. No. Description

SCT1	Temperature controller for US150, UC150, US152, UC152, US152D, and UC152D , supplied as standard with stainless steel probe, type of sensor PT100, temperature range: 20 °C - 200 °C, accuracy: ± 0.5 °C, resolution: 1 °C
SCT1/1	Probe holder
SCT1/2	PTFE probe
SCT1/1/MP	Stainless steel probe

Accessories for Hotplates and Magnetic Stirrers - prices on request.

Heating Blocks for Round Bottom Flasks (Round bottom flasks on request)

- Compatible with hotplates US150 and UC150 (page 3) and magnetic stirrers with hotplate US152, UC152, US152D and UC152D (page 4)
- For temperatures up to 450 °C
- Flexible modular system, suitable for many applications
- Good chemical resistance
- For round bottom flasks up to 500 ml



Also available: retort rods, brackets and tongs for glass flasks, beakers and ovens, temperature probes made of stainless steel or PTFE for CD162 and SD162 (page 4). Please contact us for further information.

See-through Incubators

- Incubators without base (optionally available) can be placed easily over complete instruments or full test assemblies
- Constructed from clear Acrylic® polymer for total visibility
- Analogue or digital model
- Forced air circulation and electronic temperature control ensure accurately maintained conditions
- Temperature range: Ambient + 5 °C - 60 °C, ± 0.1 °C (at 37 °C)
- Nominal volume: 60 liters
- Temperature safety cut-out set at 72 °C
- Upward opening door, can be opened completely or only the front
- Dimensions overall/internal (w x d x h): 600/450 x 390/380 x 390/380 mm



SI60D with SI60/2

Cat. No.	Description
SI60	See-through incubator with analogue control
SI60D	See-through incubator with digital control and LCD display
SI60/1	Acrylic® base plate
SI60/2	Plastic coated shelf/rack system with 2 shelves
SI60/5	Water tray for SI60 and SI60D

Incubator for Multi-well Plates and Petri Dishes

- Compact unit with stainless steel interior
- Dimensions overall/internal (w x d x h): 380/250 x 380/230 x 435/200 mm
- Laminar flow air circulation, water tray to increase humidity
- Water tray that avoids drying out of samples
- Temperature range: Ambient + 8 °C - 80 °C, ± 0.5 °C (at 37 °C)
- Nominal capacity: 20 Liters, for 24 plates (or 48 plates if stacked in 2 layers)
- Digital setting and display of temperature (display resolution 0.1 °C)
- Over temperature protection
- Upward opening door



Cat. No.	Description
SI19	Incubator for multi-well plates and petri dishes, supplied with 4 shelves and water tray

Hybridization Incubator (with combined rocker shaker)

- Temperature range: Ambient + 8 °C - 80 °C, ± 0.1 °C (at 37 °C)
- Stainless steel interior, nominal capacity: 20 Liters
- Digital setting and display of temperature (resolution: 0.1 °C), analogue setting of speed
- Over temperature protection
- Supplied with rotisserie for 7 x 40 mm diameter hybridisation bottles, further rotisserie for 2 x 75 mm diameter hybridisation bottles available
- Easy conversion to rocker shaker: remove rotisserie, pull forward rear platform
- Rotational speed range: 2 - 10 rpm, rocker speed range: 5 - 70 oscillations/minute
- Upward opening door
- Dimensions overall/internal (w x d x h): 380/286 x 380/230 x 435/200 mm
- Hybridization bottles made from Pyrex® borosilicate glass with polyester caps and PTFE seals available on request

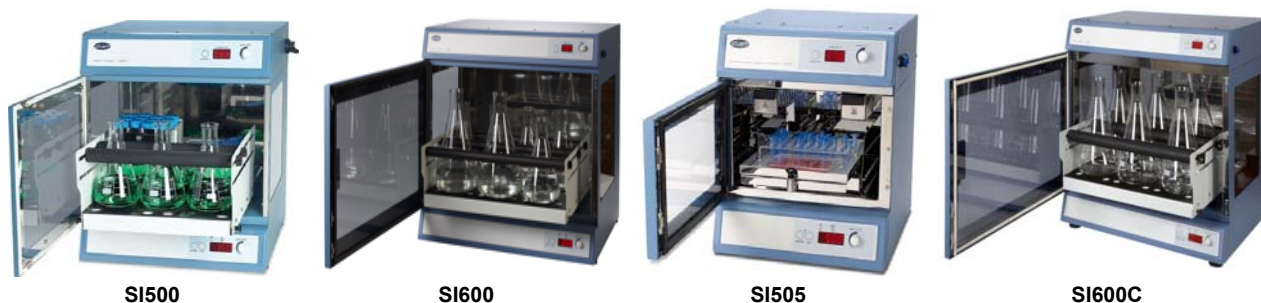


Cat. No.	Description
SI30H	Hybridisation incubator, supplied with rocker and rotisserie SI20H/1 (see below)
SI20H/1	Rotisserie for 7 x 40 mm diameter hybridisation bottles (without bottles!)
SI20H/2	Rotisserie for 2 x 75 mm diameter hybridisation bottles (without bottles!)

→ **Wide range of further incubators in our portfolio - information on request.**

Incubators with Shakers

(Also available with IQ/OQ documentation - prices on request)



Cat. No.	Description
SI500 (*)	Incubator with orbital shaker, supplied with retractable platform (with securing bars) for easy loading and unloading , compact unit with acrylic® windows in the door and on both sides, for 12 x 250 ml, 9 x 500 ml, or 4 x 1000 ml flasks, max. flasks height: 250 mm, temperature range: ambient + 5 °C - 60 °C (± 0.5 °C), speed range: 30 - 300 rpm, orbit diameter: 16 mm, digital display for temperature and speed (temperature display resolution: 0.1 °C), integrated timer with alarm (1 second to 9 days), platform size: 335 x 335 mm, max. load: 10 kg, USB connection, dimensions overall/internal (w x d x h): 450/422 x 474/408 x 522/297 mm
SI600 (*)	Incubator with orbital shaker, supplied with retractable platform (with securing bars) for easy loading and unloading , compact unit with acrylic® windows in the door and on both sides, for 15 x 500 ml, 9 x 1000 ml, or 6 x 2000 ml flasks, max. flasks height: 300 mm, temperature range: ambient + 5 °C - 60 °C (± 0.5 °C), speed range: 30 - 300 rpm, orbit diameter: 16 mm, digital display for temperature and speed (temperature display resolution: 0.1 °C), integrated timer with alarm (1 second to 9 days), platform size: 526 x 390 mm, max. load: 10 kg, USB connection, dimensions overall/internal (w x d x h): 675/623 x 542/465 x 642/395 mm
SI505 (*)	Incubator shaker with high speed shaking action 250 – 1250 rpm ideal for multi-well plates and micro tubes, supplied with retractable stainless steel platform (220 x 220 mm) for easy loading and unloading , compact unit with acrylic® window in the door, for 4 multi-well plates or 2 tube racks, max. vessel height: 300 mm, temperature range: ambient + 7 °C - 60 °C (± 0.5°C at 37 °C), orbit diameter: 1.5 mm, digital display for temperature and speed (temperature display resolution: 0.1 °C), integrated timer with alarm (1 second to 9 days), max. load: 1.5 kg, USB connection, stainless steel water trays to reduce evaporation, dimensions overall/internal (w x d x h): 361/307 x 405/300 x 430/190 mm
SI600C (*)	Cooled incubator with orbital shaker, supplied with retractable platform (with securing bars) for easy loading and unloading , compact unit with acrylic® windows in the door and on both sides, for 15 x 500 ml, 9 x 1000 ml, or 6 x 2000 ml flasks, max. flasks height: 300 mm.; <u>in combination with the SRC4 recirculating cooler (please see below) or an equivalent recirculating cooler, the incubator can operate at temperatures: ambient - 15 °C - 60 °C (± 0.5 °C)</u> , speed range: 30 - 300 rpm, orbit diameter: 16 mm, digital display for temperature and speed (temperature display resolution: 0.1 °C), integrated timer with alarm (1 second to 9 days), platform size: 520 x 390 mm, max. load: 15 kg, USB connection, dimensions overall/internal (w x d x h): 675/625 x 562*/455 x 640/380 mm (*outer incubator depth with connections for recirculating cooler: 592 mm)
SRC4	Recirculating cooler for SI600C , bath capacity 3 l, pump rate 9 l/minute, LED display, temperature range: - 20 °C to 30 °C (± 2 °C), quiet operation, safety alarm for the refrigeration unit, dedicated drain for easy emptying and cleaning, incorporated dust filter that can easily be accessed by removable front panel

→ **Wide range of shaking flasks, multi-well plates and micro tubes in our product range. Please contact us for further information and prices.**

***) Suitable tube racks: see page 8.**

Tube racks for incubators with shakers

Cat. No.	Description
For SI500, SI600 and SI600C	
SI500/1	Tube rack for 64 x 1.5 ml micro tubes, adjustable angle: up to 30 °
SI500/2	Tube rack for 25 x 15 ml centrifuge tubes, adjustable angle: up to 30 °
SI500/3	Tube rack for 12 x 50 ml centrifuge tubes, adjustable angle: up to 30 °
SI500/4	Tube rack for 16 x 30 ml universal plastic containers, adjustable angle: up to 30 °
For SI505	
SSM5/1	Tube rack for 50 x 1.5 ml tubes
SSM5/2	Tube rack for 50 x 0.5 ml tubes
SSM5/3	Tube rack for 50 x 0.2 ml tubes

Water Baths

- Temperature range: Ambient + 5 C ° - 99.9 °C
- Temperature stability: ± 0.5 °C
- Digital display and selection of temperature
- Integral drain
- Heater mounted underneath the tank to allow easy cleaning
- Low level water sensor
- Supplied with robust polycarbonate lid
- Optional stainless steel lid on request



SWB6D

Cat. No.	Description
SWB6D	Water Bath , digital, 6 l, internal dimensions (w x d x h): 300 x 150 x 200 mm
SWB15D	Water Bath , digital, 15 l, internal dimensions (w x d x h): 300 x 325 x 200 mm
SWB24D	Water Bath , digital, 24 l, internal dimensions (w x d x h): 300 x 500 x 200 mm

Shaking Water Bath and Accessories

- Digital display and selection of temperature
- Choice of linear or orbital shaking action (depending on used platform)
- Temperature range: Ambient + 5 °C - 100 °C / ± 0,25 °C
- Capacity: 24 Liters
- Shaking speed: 20 - 200 rpm
- Shaking orbit/amplitude: 20 mm
- Low-level water sensor
- Integral drain
- Heater mounted underneath the tank to allow easy cleaning
- Internal dimensions (w x d x h): 300 x 500 x 200 mm



Cat. No.	Description
SBS40	Digital shaking water bath without platform (platform has to be ordered separately)
SBS40/1	Platform, linear shaking action
SBS40/2	Platform, orbital shaking action
SBS40/3	Platform, perforated, only required to use SBS40 as static bath
SBS40/4	Polycarbonat cover, hinged
	Test tube racks for SBS40 (2 racks can be used on a platform)
SBS40/5	Test tube rack, for 143 x 1.5 ml micro tubes
SBS40/6	Test tube rack, for 120 x 13 mm culture tubes
SBS40/7	Test tube rack, for 72 x 16 mm culture tubes
SBS40/8	Test tube rack, for 56 x 15 ml centrifuge tubes
SBS40/9	Test tube rack, for 30 x 26 mm culture tubes
SBS40/10	Test tube rack, for 25 x 50 ml centrifuge tubes

→ Further water baths in our portfolio - information and prices on request.

Water Stills

Aquatron®

- Fully automatic operation
- Safety features allow unattended operation
- High quality borosilicate glassware coupled with silica sheathed heaters gives pyrogen-free distillate of the highest purity
- Low temperature distillate
- 3 versions available: for 4 l or 8 l single distilled water per hour, or for 4 l double distilled water per hour
- Operates from any raw water supply
- Reservoir level control
- Simple conversion to pre-treated feed (see WCK/N)
- Supplied with wall mounting bracket
- Simple to clean
- pH: 5.0 - 6.5



A4000

Distinction Water Still

- Produces pyrogen-free water
- 4 l single distilled water per hour
- All glass construction silica sheathed heaters
- 2 independent safety thermostats prevent overheating
- Control device turns off heater when collecting reservoir is full
- Wall mountable
- pH: 5.0 - 6.5



D4000

Merit Water Still

- Produces pyrogen-free water
- 4 l single distilled water per hour
- Glass construction with long life metal heater
- 2 independent safety thermostats prevent overheating
- Wall mountable
- pH: 5.0 - 6.5



W4000

Cat. No.	Description
A4000	Aquatron® , 4 l single distilled water/hour, w x d x h: 550 x 240 x 410 mm
A8000	Aquatron® , 8 l single distilled water/hour, w x d x h: 550 x 240 x 410 mm
A4000D	Aquatron® , 4 l double distilled water/hour, w x d x h: 550 x 410 x 410 mm
D4000	Distinction Water Still , 4 l single distilled water/hour, w x d x h: 540 x 160 x 410 mm
W4000	Merit Water Still , 4 l single distilled water/hour, w x d x h: 500 x 150 x 450 mm

→ Accessories and reservoir bottles for water stills on request.

Colony Counter

- Pressure sensitive counting, confirmation by audible tone (can be turned on/off)
- Digital display (3 digit LED for up to 999 counts)
- Bright white energy saving LED lighting
- Choice of light or dark background
- Supplied with two Wolffhuegel graticules and dish centering adapters to facilitate use with 50 mm to 90 mm dishes
- Averaging facility calculates average count over multiple plates
- Connectivity to printer or computer, USB cable supplied
- Optional magnifiers 1.7 x or 3.0 x (has to be ordered separately)
- Dimensions (w x d x h): 310 x 300 x 140 mm
- Also available with IQ/OQ documentation, price on request



SC6PLUS mit SC6/1

Cat. No.	Description
SC6PLUS	Pressure sensitive digital colony counter , for simple and accurate counting
SC6/1	1.7 x magnifier
SC6/1/3	3.0 x magnifier

→ Wide range of petri dishes also available from us. Separate price list on request.

Orbital Shakers / Reciprocating Shakers / Rockers

All units can be used in incubators with maximum temperature of 40 °C and a maximum humidity of 80 %.



Cat. No.	Description
SSL1	Orbital shaker for bottles, flasks, and similar types of vessels , speed range: 30 - 300 rpm, orbit diameter: 16 mm, supplied with cradle type platform (335 x 335 mm) with 4 securing bars, suitable for 12 x 250 ml, or 9 x 500 ml, or 6 x 1000 ml, or 2 x 2000 ml flasks, max. load: 10 kg, digital timer (1 second - 9 hours, or continuous operation), platform capacity can be increased by using optional available larger platform (available on request), dimensions (w x d x h): 360 x 420 x 270 mm
SSL2	Reciprocating shaker for bottles, flasks, and similar types of vessels , construction and control identical to SSL1 (see above), speed range: 25 - 250 rpm, orbit diameter: 20 mm, max. load: 10 kg, digital timer (1 second - 9 hours, or continuous operation), dimensions (w x d x h): 360 x 420 x 270 mm
SSL3	Rocker, 3D gyratory motion , speed range: 5 - 70 rpm, angle of tilt: 3 ° - 12 °, platform with non-slip mat: 355 x 355mm, max. load: 10 kg, dimensions (w x d x h): 360 x 420 x 170 mm
SSL4	Rocker, see-saw wave motion , speed range: 5 - 70 rpm, angle of tilt: 7 °, platform with non-slip mat: 335 x 335 mm, max. load: 10 kg, dimensions (w x d x h): 360 x 420 x 160 mm
SSM1	Orbital shaker, smooth shaking action ideal for samples of 0.5 - 5 ml in multi-well plates, dishes, and petri dishes , speed range: 30 - 300 rpm, orbit diameter: 16 mm, platform with non-slip mat: 220 x 220 mm, max. load: 3 kg, digital timer (1 second - 9 hours, or continuous operation), with optional available platform (available on request) also usable with flasks, dimensions (w x d x h): 240 x 300 x 140 mm
SSM3	Mini-Rocker, 3D gyratory motion , speed range: 5 - 70 rpm, angle of tilt: 3 ° - 12 °, platform with non-slip mat: 235 x 235mm, max. load: 3 kg, dimensions (w x d x h): 240 x 300 x 165 mm
SSM4	Mini-Rocker, see-saw wave motion , speed range: 5 - 70 rpm, angle of tilt: 7 °, platform with non-slip mat: 235 x 235mm, max. load: 3 kg, dimensions (w x d x h): 240 x 300 x 150 mm

→ Lids, tier systems, further platforms and tube holders available on request.

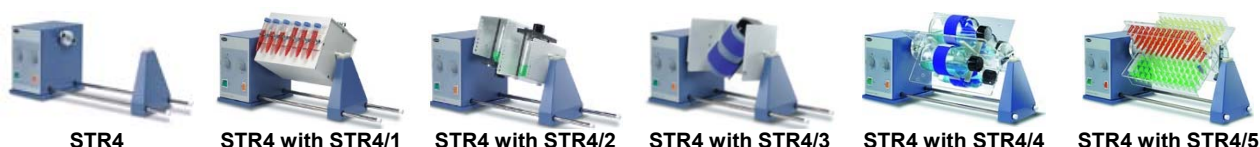
Rotators

Can be used in incubators up to 60 °C and in cool rooms down to 4 °C.
Tube holders are not included, have to be ordered separately (see below) – listed tube holders suitable for SB2 and SB3.



Cat. No.	Description
SB2	Rotator for tubes (1.5 - 50 ml), fixed speed: 20 rpm , fully adjustable mixing angle, tube holders not included, have to be ordered separately (see below)
SB3	Rotator for tubes (1.5 - 50 ml), digital speed control, variable speed: 2 - 40 rpm , fully adjustable mixing angle, digital timer, tube holders not included, have to be ordered separately (see below)
SB3/1	Tube holder, end-over-end action , for 40 micro tubes with $\varnothing = 10 - 11.5$ mm
SB3/2	Tube holder, end-over-end action , for 20 test/blood tubes with $\varnothing = 9 - 20$ mm
SB3/3	Tube holder, end-over-end action , for 12 x 50 ml centrifuge tubes with $\varnothing = 25 - 35$ mm
SB3/4	Tube holder, rolling action , for 63 culture tubes with $\varnothing = 12$ mm
SB3/5	Tube holder, rolling action , for 36 culture tubes with $\varnothing = 16$ mm
SB3/6	Tube holder, rolling action , for 30 culture tubes with $\varnothing = 26$ mm
SB3/DUAL	Multiple tube holder accessory

Rotator Drive Unit with Drums



Cat. No.	Description
STR4	Rotator drive unit , highly versatile, accepts a choice of 5 drums (not included, have to be ordered separately, see below) , rotation speed 6 - 60 rpm, max. load: 3kg, built-in timer: 10 - 60 minutes, or continuous operation
STR4/1	Drum to hold test tube clip plates , end-over-end rotation of tubes, can hold up to 4 plates fitted with tube clips (not included have to be ordered separately, see below)
STR1/1	2 clip plates for 12 x 12 mm tubes
STR1/2	2 clip plates for 10 x 16 mm tubes
STR1/3	2 clip plates for 8 x 19 mm tubes
STR1/4	2 clip plates for 7 x 24 mm
STR4/2	Drum with 2 platforms to hold bottles or flasks , end-over-end mixing of 2 bottles up to 250 ml
STR4/3	Drum with figure 8 mixing action , for one vessel up to 200 mm in length and 120 mm diameter, vessel is held at a 45 ° angle so it is rolled and turned end-over-end at the same time giving a vigorous figure 8 of mixing action
STR4/4	Drum with 4 segment cradles holding up to 4 bottles or containers up to 300 mm in length and 120 mm diameter, drum holds vessel in horizontal position
STR4/5	Drum for 1.5 ml tubes , with 4 segment cradles and 4 tube racks (each for 60 x 1.5 ml tubes, end-over-end movement)

Roller Mixers

For a gentle, but highly efficient, rocking and rolling action. With removable rolls to adjust the unit also for bigger vessels and removable side panels that ensure the sample bottles do not slide off the roller mixers during operation. All models can be used in incubators up to 60 °C and humidity up to 80 % or in cooling rooms down to 4 °C



Cat. No.	Description
SRT6	Roller mixer, 6 rollers, analogue control, fixed speed: 33 rpm , max. load: 5 kg, without timer , usable for continuous operation, dimensions (w x d x h): 565 x 240 x 110 mm
SRT6D	Roller mixer, 6 rollers, digital control, variable speed: 5 - 60 rpm , max. load: 5 kg, with timer , usable for continuous operation, dimensions (w x d x h): 565 x 240 x 110 mm
SRT9	Roller mixer, 9 rollers, analogue control, fixed speed: 33 rpm , max. load: 5 kg, without timer , usable for continuous operation, dimensions (w x d x h): 565 x 360 x 110 mm
SRT9D	Roller mixer, 6 rollers, digital control, variable speed: 5 - 60 rpm , max. load: 5 kg, with timer , usable for continuous operation, dimensions (w x d x h): 565 x 360 x 110 mm
SRT/STACK	Stacking system for roller mixers, works by magnets – no need for any tools, comprises 4 magnetised stacking blocks, up to 3 roller mixers can be stacked <u>Note:</u> In order to stack 3 roller mixers, 2 x SRT/STACK are required

Melting Point Apparatus and Accessories



SMP10



SMP11



SMP20



SMP30



SMP50

Cat. No.	Description
SMP10	Melting point apparatus, digital selection and display of temperature, temperature range: ambient to 300 °C, display resolution 1 °C, up to 2 samples can be tested simultaneously, unit heats at a fixed rate of 2 °C per minute, supplied with 1 x melting point tubes SMP10/1 (see below)
SMP11	Melting point apparatus, analogue, temperature range: 50 °C - 300 °C, up to 3 samples can be tested simultaneously, manually adjustable heating rate: 1 °C to 10 °C per minute, supplied with 1 x melting point tubes SMP1/4 (see below) and thermometer
SMP20	Melting point apparatus, digital selection and display of temperature, temperature range: ambient to 300 °C, display resolution 0.1 °C, up to 2 samples can be tested simultaneously, adjustable heating rate: 1 °C to 10 °C per minute, supplied with 1 x melting point tubes SMP10/1 (see below)
SMP30	Melting point apparatus, large alphanumeric LCD display, two stage head adjustment for comfortable viewing angle, head up display shows temperature, temperature range: ambient to 400 °C, display resolution 0.1 °C, up to 3 samples can be tested simultaneously, adjustable heating rate: 0.5 °C to 10 °C per minute in 0.1 °C increments, records up to 8 events in memory for each of the 3 sample tubes, supplied with 1 x melting point tubes SMP10/1 (see below) <i>SMP30 also available with IQ/OQ documentation – price on request.</i>
SMP50	Automatic melting point apparatus, 7" colour HD touch screen display, temperature range: ambient to 400 °C, display resolution 0.1 °C, up to 3 samples can be tested simultaneously, adjustable heating rate: 0.1°C to 20 °C per minute in 0.1 °C increments, memory: up to 300 results with video (additional measurement tags can be added), data can also be transferred to PC via USB stick, supplied with glass cutter (for users who prefer to use not the whole tubes) <i>SMP50 also available with IQ/OQ documentation – price on request.</i>
SMP11/1	Spare thermometer for SMP11, spirit filled, 0 °C - 250 °C
SMP1/2	Cooling plug (brass) for rapidly reducing heating block temperature after use
SMP10/1	Melting point tubes, sealed at one end (pack of 100)
SMP1/4	Melting point tubes, open both ends (pack of 100)
SMP2/1	Melting point tubes, sealed both ends (pack of 100)
SMP30/1	Printer for SMP30
SMP50/Printer	Printer for SMP50
SMP-KIT	Calibration Kit, with 3 standards: Vanillin, Sulphanilamide, and Caffeine