



# Block Heaters

Stuart® Block heaters are suitable for microbiology and clinical laboratories for incubation, boiling, inactivation, wet washing, sample concentration, enzyme analysis and other general applications. Suitable for test tubes, cuvettes, micro-centrifuge tubes, 96 well plates and other small containers.

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# Block Heaters

## Block heater, analogue, SBH130

- Analogue control, economical price
- 130°C maximum temperature
- "Hot" warning light indicates blocks are too hot to touch
- Uniform and stable temperatures

Designed for the precise heating of test-tubes, microcentrifuge tubes, cuvettes and microtitre plates. With simple analogue setting of temperature for ease of use. "Hot" warning light will flash whenever the block temperature is above 50°C.

### Technical Specification

#### SBH130

Temperature range	Ambient +8°C to 130°C
Temperature stability at 37°C	±0.1°C
Uniformity within block at 37°C	±0.1°C
Uniformity within block at 130°C	±1°C
Dimensions, mm (w x d x h)	235 x 280 x 115
Net weight, kg (without blocks)	2.1
Heater power	300W
Electrical supply	230V, 50Hz
IP Rating	31

### Ordering Information

Model	Description
SBH130	Block heater, 2 block, analogue, 130°C



SBH130



SBH130 with SBH/2



# Block Heaters

## Block heaters, digital, SBH:D

- Choice of 130°C or 200°C maximum temperature
- Digital setting and display
- Uniform and stable temperatures

Construction similar to the SBH130. The bright, easy to read LED display facilitates very easy setting of the required temperature and also accurate monitoring of the actual temperature. Excellent temperature stability and uniformity is maintained via sensitive electronic controls. Heats to 100°C in less than 12 minutes.

### Technical Specification

	SBH130D	SBH200D
Number of blocks	2	2
Temperature range	Ambient +8°C to 130°C	Ambient +8°C to 200°C
Temp. stability at 37°C	±0.1°C	±0.1°C
Uniformity within block at 37°C	±0.1°C	±0.1°C
Uniformity within block at 130°C	±1°C	±1°C
Display resolution	0.1°C	0.1°C
Dimensions, mm (w x d x h)	235 x 280 x 115	235 x 280 x 115
Net weight, kg (without blocks)	2.3	2.3
Heater power	300W	300W
Electrical supply	230V, 50Hz	230V, 50Hz
IP Rating	31	31

### Ordering Information

Model	Description
SBH130D	Block heater, 2 block, digital, 130°C
SBH200D	Block heater, 2 block, digital, 200°C

All models supplied complete with block extraction tool but without aluminium blocks which must be ordered separately. A wide range of blocks is available, see page 6 for details.



SBH130D



SBH130D showing block extraction tool (included)

# Block Heaters

## Block heater, digital, dual control, SBH130DC & SBH200DC

- Two blocks with independent temperature control
- Choice of 130°C or 200°C maximum temperature
- Construction as SBH:D (see previous page)

Innovative design accommodating two blocks with independent temperature control allowing them to be set at different temperatures. Excellent temperature stability and uniformity is maintained in each block. The unit takes up less space than two block heaters and is ideal for applications where samples have to be transferred between two temperatures very quickly, or for two separate users.

### Technical Specification

	SBH130DC	SBH200DC
Temperature range	Ambient +8°C to 130°C	50°C to 200°C
Temp. stability	±0.1°C	±0.1°C
Uniformity within block at 60°C	±0.1°C	±0.1°C
Uniformity within block at max.	1°C	1°C
Display resolution	0.1°C	0.1°C
Dimensions, mm (w x d x h)	310 x 280 x 115	310 x 280 x 115
Net weight, kg	2.9	2.9
Heater power	2 x 150W	2 x 150W
Electrical supply	230V, 50Hz	230V, 50Hz
IP Rating	31	31

### Ordering Information

Model	Description
SBH130DC	Block heater, digital, dual control, 130°C
SBH200DC	Block heater, digital, dual control, 200°C



SBH200DC

# Block Heaters

## Block heaters, digital, three block, SBH:D/3

- Extra capacity three block models
- Choice of 130°C or 200°C maximum temperature
- Digital setting and display
- Uniform and stable temperatures

The same precise heating and control of the two block SBH:D models but with 50% more capacity of a third block. Excellent temperature stability and uniformity is maintained via sensitive electronic controls.

All Stuart® three block heaters are compatible with the Stuart® Sample concentrator, for faster sample concentration.

### Technical Specification

	SBH130D/3	SBH200D/3
Number of blocks	3	3
Temperature range	Ambient +8°C to 130°C	Ambient +8°C to 200°C
Temp. stability at 37°C	±0.1°C	±0.1°C
Uniformity within block at 37°C	±0.1°C	±0.1°C
Uniformity within block at 130°C	±1°C	±1°C
Display resolution	0.1°C	0.1°C
Dimensions, mm (w x d x h)	310 x 280 x 115	310 x 280 x 115
Net weight, kg (without blocks)	3.2	3.2
Heater power	450W	450W
Electrical supply	230V, 50Hz	230V, 50Hz
IP Rating	31	31



SBH200D/3

## Sample concentrator, SBHCONC/1

A sample concentrator is a fast and convenient way of concentrating multiple samples in a block heater at once. Utilising a simple gas delivery system the sample concentrator passes gas over the surface of your samples via stainless steel needles. This in combination with the heat from the block heater below produces ideal conditions for fast, efficient evaporation.

The gas delivery needles are inserted into a silicon membrane, in virtually any configuration. The height of the sample concentrator's gas reservoir is located on an adjustable stand for accurate height control. This combines to make the sample concentrator compatible with any combination of block heater sample vessels. The gas delivery needles are available in either 76mm or 127mm lengths to suit various tube heights, optional PTFE coating is available for corrosive solutions. The Stuart® sample concentrator is only compatible with the SBH130D/3 and SBH200D/3.

### Ordering Information

Model	Description
SBH130D/3	Block heater, 3 block, digital, 130°C
SBH200D/3	Block heater, 3 block, digital, 200°C
SBHCONC/1	Sample concentrator
F7209	Needles, 76mm (pack of 100)
F7210	Needles, 127mm (pack of 100)
FSC4NCS	Needles, 76mm, PTFE coated (pack of 100)
FSC4NCL	Needles, 127mm, PTFE coated (pack of 100)

**Note: Needles must be purchased separately.**



SBH200D/3 with SBHCONC/1

# Block Heaters

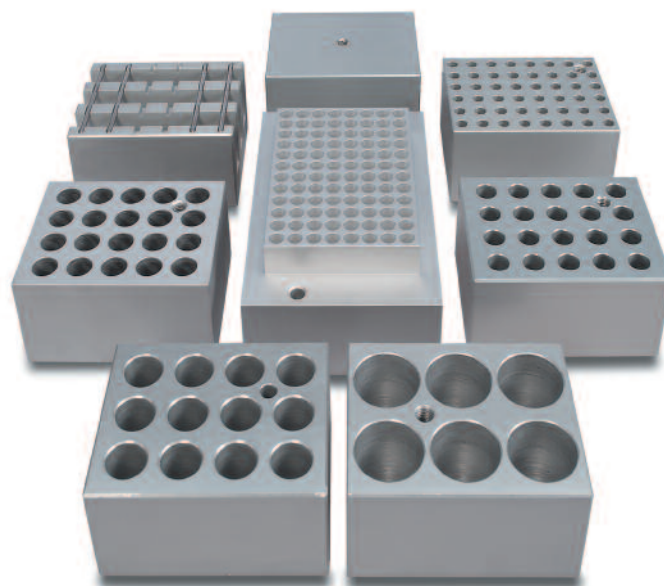
## Aluminium blocks

For use with Stuart® block heaters. Manufactured from anodised aluminium and all with a separate hole to accommodate a thermometer if desired. For accurate thermometer measurements please check your thermometer has a suitable immersion depth. All blocks\* have dimensions (w x d x h) of 75 x 95 x 50mm and can be used in any combination. Please note all Stuart block heaters will only operate effectively if the full compliment of blocks is present.

### Technical specification and ordering information

	<b>Tube (dia. / type)</b>	<b>No. of holes</b>	<b>Hole size, (dia. x depth) mm</b>
SHT1/0	Plain block	-	-
SHT1/10	10mm	20	10.5 x 47
SHT1/12	12mm	20	12.6 x 47
SHT1/12/33	12mm	20	12.6 x 33
SHT1/13	13mm	20	13.5 x 47
SHT1/16	16mm	12	16.5 x 47
SHT1/19	19mm	8	19.5 x 47
SHT1/20	2ml tubes	20	10.5 x 33
SHT1/21	Block with removable channels for glass and disposable cuvettes.		
SHT1/22	1.5ml tubes	20	10.7 x 35 9° taper
SHT1/25	25mm	6	25.5 x 47
SHT1/28	28mm	6	28.0 x 47
SHT1/30	0.5ml tubes	30	7.8 9° taper
SHT1/30/1	30mm	4	30.1 x 47
SHT1/33	33mm	4	33.2 x 47
SHT1/48	0.2ml tubes	48	6.1 9° taper
SHT1/80	0.2ml strip	10 x 8	-
SHT1/96	96 well plate	-	7.5 9° taper
SHT1/384	384 well plate	-	3.6 9° taper

\* Excluding SHT/96 and SHT1/384 (150 x 95 x 61mm).



## Safety covers

Tough Perspex® covers are available for Stuart® block heaters. Easily fitted without using tools. Protects the user from 'spitting' tubes, and improves temperature stability by preventing drafts. The SBH covers are only compatible with tubes that protrude no more than 80mm from the block.

### Ordering information

<b>Model</b>	<b>Description</b>
SBH/2	Safety cover for 2 block models
SBH/3	Safety cover for 3 block and dual control models



SBH130 with SBH/2