



Hotplate/stirrers

Stirrers

All Stuart® stirrers use powerful Neodymium magnets to offer the strongest coupling to the stirrer bar and minimise decoupling. Stuart® hotplate stirrers are available in 16 x 16cm and 30 x 30cm. With the addition of the three position unit, the SB161-3 with individual speed control for up to three flasks. Additionally the SM27 is available for field applications and can be powered by standard "D" type batteries.

Page 36 - Portable magnetic stirrer

Page 36 - Mini magnetic stirrers

Page 37 - Magnetic stirrers

Page 38 - Three position magnetic stirrers

Page 38 - Heavy duty magnetic stirrer



Stirrers

Stirrer, magnetic, portable, SM27

- Battery powered or mains supply
- Tough, compact and light weight
- Variable speed up to 1300rpm

Powered by long life batteries or mains power this rugged little unit can be used almost anywhere. Ideal for use inside incubators, glove boxes or in the field. Housed in a tough, chemically resistant ABS case and supplied complete with batteries.

Technical specification

	SM27
Max speed, rpm	1300
Capacity, litres H ₂ O	1.5
Dimensions, mm (w x d x h)	150 x 160 x 70
Net weight, kg	1.3
Electricity supply	4 x alkaline batteries or 230V, 50Hz
Battery type	1.5V, size D, IEC No. LR20
Battery life	600 hours continuous use
IP rating	41

Ordering Information

Model	Description
SM27	Portable magnetic stirrer complete with 4 x LR20 batteries and 25mm PTFE stir bar
SM27/1	Mains adapter, 9V a.c. for 230V, 50Hz supply with UK plug
SM27/2	Mains adapter, 9V a.c. for 230V, 50Hz supply with European 2 pin plug
SM27/3	Car battery adapter, 12V, Fitted with standard car cigarette/cigar plug

Stirrers, magnetic, mini, SM4

- Compact and lightweight
- Up to 1300 rpm

Designed for easy fixing to retort rods and scaffolding. Compact metal case has retort clamp for rod diameters up to 16 mm. Electronic speed control up to 1300 rpm. Separate tuning control allows slow speed setting.

Technical Specification

	SM4
Speed range	80 to 1300rpm
Dimensions, mm (w x d x h)	90 x 160 x 90
Net weight, kg	1
Electrical supply	230V, 50Hz, 50W
IP Rating	31

Ordering Information

Model	Description
SM4	Stirrer, magnetic, mini



SM27



SM4

Stirrers, magnetic, CB161 & SB161

- Choice of robust stainless steel or chemically resistant ceramic tops
- Spillproof design which helps deflect spills away from the controls and the user
- Powerful magnets for strong stirring action

Powerful magnets and motor give stirring speed up to 1500rpm and volumes up to 15 litres*.

Model CB161 has a glass ceramic top which has excellent chemical resistance. The chemical properties make the surface very easy to keep clean. The white surface ensures good visibility of colour changes, during titration for example.

Model SB161 has a robust stainless steel top plate that does not produce eddy currents like aluminium and so ensures a very powerful coupling and stirring action.

With fitting for retort rod and supplied complete with 2 x 25mm PTFE coated stir bars.

Technical Specification

	CB161	SB161
Plate material	Glass ceramic	Stainless steel
Plate dimensions, mm	160 x 160	160 x 160
Stirrer speed, rpm	100 - 1500	100 - 1500
Max. stirring capacity, litres*	15	15
Dimensions, mm (w x d x h)	190 x 300 x 110	190 x 300 x 110
Net weight, kg	3.2	3.2
IP rating	32	32
Electrical supply	230V, 50Hz, 50W	230V, 50Hz, 50W

Ordering Information

Model	Description
CB161	Stirrer, ceramic plate
SB161	Stirrer, stainless steel plate

* Based on water contained in a 20 litre flat bottom boiling flask.



CB161



CB161

Stirrers

Stirrer, magnetic, 3 position, SB161-3

- Three independently controlled stirring positions
- Powerful magnets for strong magnetic coupling
- Stainless steel top plate

A space saving and economical unit with three independent stirring positions in a footprint only 600 x 270mm. Easily accommodates 3 x 2 litre beakers. The stainless steel top plate is robust and, unlike aluminium, does not produce eddy currents and so ensures a very powerful coupling and stirring action. Powerful magnets and motor give stirring speed up to 1500rpm and volumes up to 15 litres *. Supplied complete with 3 x 25mm PTFE coated stir bars.

Technical specification

SB161-3

Plate material	Stainless steel
Plate dimensions, mm	550 x 210
Speed range, rpm	100 to 1500
Dimensions, mm (w x d x h)	600 x 270 x 110
Net weight, kg	7
Electricity supply	230V, 50Hz, 150W
IP Rating	31

Ordering Information

Model	Description
SB161-3	Stirrer, magnetic, 3 position
SR3	Retort rod, 600mm plus bracket

* Based on water contained in a 20 litre flat bottom boiling flask.

Stirrer, magnetic, heavy duty, SB301

- Robust construction with stainless steel top
- Powerful magnets for strong magnetic coupling
- Stirs up to 30 litres

Large and powerful stirrer for use with vessels up to 30 litre capacity. Powerful magnetic drive with electronic feed-back speed control which accurately maintains the set speed. Supplied complete with 1 x 100mm PTFE coated stir bar.

Technical specification

SB301

Plate material	Stainless steel
Plate dimensions, mm	300 x 300
Speed range, rpm	100 - 600
Stirring capacity, litres	30
Dimensions, mm (w x d x h)	300 x 365 x 105
Net weight, kg	5
Electricity supply	230V, 50Hz, 50W
IP Rating	31

Ordering Information

Model	Description
SB301	Stirrer, magnetic, heavy duty



SB161-3



SB301