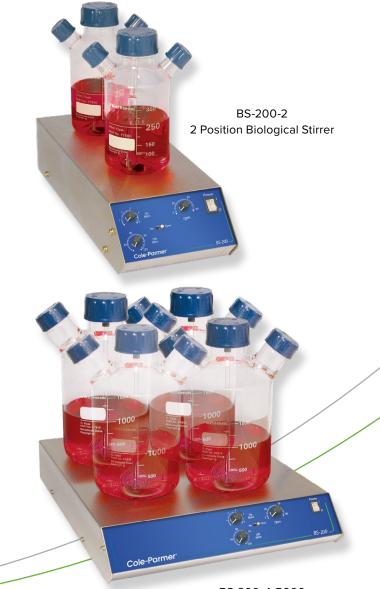
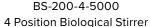
Cole-Parmer®

Cole-Parmer® Biological Stirrers - BS-200

The stirrers are designed for optimal suspension cell culture and the use of microcarriers. The system comprises of a stirrer platform and a number of glass culture vessels.

- 2 and 4 position culture vessels, dependent on model
- Speed range from 0 to 80rpm
- Softstart/stop for slow acceleration and deceleration
- Interval setting option
- Stainless steel stirrer platform with locators for the culture vessels
- Designed for incubator environments upto 40°C and 95% humidity









BS-200-2 2 Position Biological Stirrer



BS-200-4-500 4 Position Biological Stirrer



BS-200-4-1000 4 Position Biological Stirrer



BS-200-4-5000 4 Position Biological Stirrer

Cole-Parmer® Biological Stirrers - BS-200

Unique stirring action

The culture vessels incorporate a unique base design which, together with the bulbended stirrer, ensures that the cells are lifted into suspension at the lowest possible speeds. This gentle stirring action promotes high cell yields by preventing cell shearing.

Calibrated speed control and interval stirring

Cell attachment to microcarriers and high cell yields are ensured by the special softstart/stop design and interval stirring option. The former ensures slow acceleration and deceleration of the stirrer, avoiding excessive turbulence in the culture media and eliminating cell damage. The interval stirring can be used during the attachment phase to further reduce agitation of the media or when culturing particularly fragile cells.

The stirrers create virtually no heat so there is negligible heat transfer from the magnetic drive to the culture vessel, making the system suitable for use in both incubators and cold rooms.



Technical Specification

| Specification | BS-200-2 | BS-200-4-500 | BS-200-4-1000 | BS-200-4-5000 |
|--|---|---|---|--|
| Vessels per stirrer | 2 | 4 | 4 | 4 |
| Maximum vessel size | 1000mL | 500mL | 1000mL | 5000mlL |
| Speed range | 0 to 80rpm | 0 to 80rpm | 0 to 80rpm | 0 to 80rpm |
| Speed setting accuracy | <± 3rpm | <±3rpm | <±3rpm | <±3rpm |
| Softstart speed control 20 second acceleration | 20 second acceleration 20 second deceleration | 20 second acceleration 20 second deceleration | 20 second acceleration 20 second deceleration | 20 second acceleration 20 second deceleration |
| Interval setting: variable on-time | 6 seconds to 5 minutes |
| Interval setting: variable off-time | 2 minutes to 2 hours |
| Limited operating conditions | 40°C and 95% | 40°C and 95% | 40°C and 95% | 40°C and 95% |
| Voltage | Dual Voltage 230/110V 50/60Hz | Dual Voltage 230/110V 50/60Hz | Dual Voltage 230/110V 50/60Hz | Dual Voltage 230/110V 50/60Hz |
| Nominal power consumption | 2W | 2W | 2W | 2W |
| Dimensions (w x d x h) | 140 x 400 x 90mm |
| Net weight (excluding vessels) | 3.0kg | 4.1kg | 6.1kg | 11.5kg |
| Shipping weight | 4.2kg | 5.3kg | 7.1kg | 13.5kg |

Ordering Information

| Description | Ordering Number | Series No. | Model No. | Legacy Sku. |
|--|-----------------|------------|---------------|-------------|
| Cole-Parmer® MCS-102L Biological Stirrer, 2 position | 21837-01 | BS-200 | BS-200-2 | FMCS102L |
| Cole-Parmer® MCS- 104S Biological Stirrer for culture vessels of maximum 500mL | 21837-03 | BS-200 | BS-200-4-500 | FMCS104S |
| Cole-Parmer® MCS-104L Biological Stirrer for culture vessels of maximum 1000mL | 21837-02 | BS-200 | BS-200-4-1000 | FMCS104L |
| Cole-Parmer® MCS- 104XL Biological Stirrer for 5000mL culture vessels only | 21837-04 | BS-200 | BS-200-4-5000 | FMCS104XL |

Note:

Culture vessels must be ordered separately



coleparmer.com



Pricing on any accessories shown can be found by keying the part number into the search box on our website.

The specifications listed in this brochure are subject to change by the manufacturer and therefore cannot be guaranteed to be correct. If there are aspects of the specification that must be guaranteed, please provide these to our sales team so that details can be confirmed.

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Please contact us if this literature doesn't answer all your questions.