



MCS Series

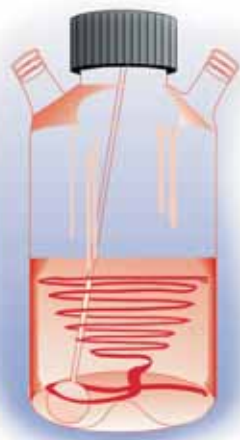
Biological stirrers and culture vessels...

Uniform suspension of cell cultures and microcarrier beads.





Biological Stirrers & Culture Vessels



Techne Stirring Systems use special Borosilicate glass culture vessels and stirrer rods, siliconized to reduce the possibility of cells attaching to and growing on the surfaces. Vessels are available with nominal working volumes of 125ml, 250ml, 500ml, 1 liter, 3 liter and 5 liter.

Computer generated image of flow pattern generating a gentle controlled spiralling movement of the cell culture, upwards in the middle and downwards at the sides.

- Five Stirrer sizes available
- Six Culture Vessel sizes: 125ml, 250ml, 500ml, 1L, 3L & 5L
- Calibrated speed control and interval stirring
- All solid state controls
- Polished stainless steel housing
- Suitable for incubator/warm room use
- Strong, rugged, and lightweight - built for years of use!
- Designed to comply with electrical safety regulations

- Speed range** 0 to 80 rpm
- SOFTSTART speed control** . . . 20 seconds acceleration.; 20 second deceleration
- Interval Stirring**
 - variable on-time 6 seconds to 5 minutes
 - variable off-time 2 minutes to 2 hours
- Drive** Non-slip magnetic drive between rotating magnets in base and embedded magnet in each stirring rod
- Heat input to culture vessel** Negligible; continuous running produces no measurable increase in temperature
- Operating conditions** Up to 40°C and 95% relative humidity (non-condensing)
- Glassware** Borosilicate glass, siliconized
- Power consumption** 2 watts
- Fuse rating** 100mA
- Voltage** 110/240V

Technical Specification

Stirrer Units	MCS-101L	MCS-102L	MCS-104S	MCS-104L	MCS-104XL
Vessels per system	1	2	4	4	4
Maximum vessels size, ml	5000 (3000 min.) ml	1000 ml	500 ml	1000 ml	5000 ml
Width	39.5 cm; 15.5"	14 cm; 5.5"	25 cm; 9.8"	39.5 cm; 15.5"	53 cm; 20.8"
Depth (including mains plug)	49.5 cm; 19.5"	40 cm; 15.75"	36.5 cm; 14.4"	49.5 cm; 19.5"	59.5 cm; 23.4"
Height (excl. vessel loc. pip)	9 cm; 3.5"	9 cm; 3.5"	9 cm; 3.5"	9 cm; 3.5"	9 cm; 3.5"
Net Weight excluding vessels	14.3 lbs	6.6 lbs	9.02 lbs	13.4 lbs	25.3 lbs

Culture Vessels	125 ml	250 ml	500 ml	1 L	3 L	5 L
Gross volume	250 ml	500 ml	1,000 ml	2,000 ml	6,000 ml	10,000ml
Nominal working volume	125 ml	250 ml	500 ml	1000 ml	3000 ml	5000 ml
Working volume range	50-175 ml	100-350 ml	200-700 ml	500-1500 ml	1500-3500 ml	2000-7000 ml
Height	14.5 cm, 5.7"	17 cm, 6.7"	20.5 cm; 8"	26.3 cm; 10.4"	28.4 cm; 11.2"	36.5 cm; 14.4"
Diameter	6.5 cm; 2.5"	8 cm; 3.15"	10 cm; 3.94"	14 cm; 5.5"	21.5 cm; 8.5"	24 cm; 9.4"
Top cap - thread size	4.2 cm; 1.65"	4.2 cm; 1.65"	4.2 cm; 1.65"	6 cm; 2.4"	6 cm; 2.4"	6 cm; 2.4"
Side cap - thread size	2 cm; 0.78"	2 cm; 0.78"	3 cm; 1.18"	4.2 cm; 1.65"	4.2 cm; 1.65"	2.4 cm; 0.94"
Port size	1.4 cm; 0.55"	1.4 cm; 0.55"	2.3 cm; 0.9"	3.3 cm; 1.3"	3.3 cm; 1.3"	1.8 cm; 0.7"
Number of side necks	2	2	2	2	2	2

* 2 necks available upon request

Ordering Information

Model	Description	Model	Description
2030600	MCS-101L Biological Stirrer unit, 110/240V	6027988	125 ml Culture Flask with caps and stirrer rod
2030700	MCS-102L Biological Stirrer unit, 110/240V	6027689	250 ml Culture Flask with caps and stirrer rod
2030800	MCS-104S Biological Stirrer unit, 110/240V	6027607	500 ml Culture Flask with caps and stirrer rod
2030900	MCS-104L Biological Stirrer unit, 110/240V	6027608	1 liter Culture Flask with caps and stirrer rod
2032500	MCS-104XL Biological Stirrer unit, 110/240V	6027613	3 liter Culture Flask with caps and stirrer rod
		6027883	5 liter Culture Flask with caps and stirrer rod



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