



## Heaters and Stirrers

Cleaver Scientific hotplates, stirrers and hotplate-stirrers feature an exceptionally durable, chemically resistant, white ceramic work surface. Their space-efficient design (20 x 23 cm footprint), makes them ideal for use on crowded bench tops and inside cabinets.

Advanced microprocessor controls with convenient turn knobs allow quick, precise adjustment and maintenance of speed and temperature. A safety indicator LED on each front panel indicates when the heating and stirring functions have been activated. With a square 19 x 19 cm work surface, all three models are compatible with a wide variety of popular sizes of borosilicate glass beakers, flasks, bottles and other vessels.

The hotplate/magnetic stirrer model (CSL Hotplate) comes complete with a support rod for mounting thermometers and temperature probes.



## Peristaltic Pumps

Available in single, dual and tetrad formats these versatile peristaltic pumps are an ideal accessory for gradient gel formation with the VS20-DGGE. The 'easy load' head of the MU-D01 single peristaltic pump accommodates multiple tubes of different diameters offering the user enhanced flexibility in flow rate selection, while the MU-D02 single pump has the added benefit of a more powerful pump motor. The MFU-01 and MFU-02 dual and tetrad pumps are equipped with microprocessor technology for more accurate rpm control, and comprise 2 and 4 peristaltic pumps respectively that may be controlled individually. All 4 pumps are reversible and have a small footprint, occupying minimum space within the laboratory. Other applications include: filtration, sampling, chemical spraying, dispensing, transferring, feeding and filling.

### FEATURES:

- Large work surface, 19 x 19 cm
- Space saving design, 20 x 23 cm Footprint
- Chemical resistant white ceramic top plate
- Safety LEDs indicate when heating or stirring
- Quick and easy adjustment of heating/mixing

### ORDERING INFORMATION

CSL-HOTPLATE	CSL Hotplate, 19 x 19 cm
CSL-HOTSTIR	CSL Hotplate Magnetic Stirrer 19 x 19 cm
CSL-STIR	CSL Magnetic Stirrer, 19 x 19 cm
Use \$ sign to order 110v version	

### TECHNICAL SPECIFICATIONS

Speed Range:	60-1500 rpm (stirring units only)
Temp. Range (heating units only)	Ambient +5° to 380°C
Platform	19 x 19cm
Control	Quick Adjustment Knobs
Unit Dimensions (w x d x h)	20 x 23 x 11.5 cm
Electrical Data	120V, 60 H Z / 230V, 50/60 H Z

## Stirring Water Baths

A powerful magnetic stirring mechanism combined with high wattage heating allows each Cleaver Scientific stirring water bath to maintain temperatures to a maximum 99°C. Available in 10 and 20 litre bath capacities, these water baths comprise as many as 3 stirrers for a maximum stirring speed of 1800rpm. Each bath includes a conspicuous front-panel LCD, reproducible microprocessor control of temperature within 0.1°C increments, a corrosion resistant stainless steel interior and automatic alarm and safety shutdown mechanism. Optional data logging and PC control software is also available.

### ORDERING INFORMATION

SWB-10L-1	Stirring Water Bath 10L with 1 built-in stirrer
SWB-10L-2	Stirring Water Bath 10L with 2 built-in stirrers
SWB-20L-1	Stirring Water Bath 20L with 1 built-in stirrer
SWB-20L-3	Stirring Water Bath 20L with 3 built-in stirrers
All of the above include lid	
Accessories	
SWB-LID10	Transparent lid for 10L stirring water bath
SWB-LID20	Transparent lid for 20L stirring water bath

### ORDERING INFORMATION

MU-D01	Single Peristaltic Pump	MU-S14	Silicon tube I.D. 1/16", 25 ft
MU-D02	Single Peristaltic Pump	MU-S16	Silicon tube I.D. 1/8", 25 ft
MFU-01	Dual Peristaltic Pump	MU-S18	Silicon tube I.D. 3/8", 25 ft
MFU-02	Tetrad Peristaltic Pump	MU-S25	Silicon tube I.D. 3/16", 25 ft
MU-S13	Silicon tube I.D. 1/32", 25 ft	MU-S17	Silicon tube I.D. 1/4", 25 ft

### TECHNICAL SPECIFICATIONS

	MU-D01	MU-D02	MFU-01	MFU-02
No. of Heads	1	1	2	4
Max. RPM:	300	600	100	100
Flow Rate, : ml/min	1.2-1140	0.3-2280	0.6-380	0.6-380
Dimensions: (h x l x w)	20x34x13	20x34x13	26.5x34x18	26.5x34x18
Weight, kg:	5.7	5.7	5.7	5.7

### TYPICAL APPLICATIONS

Heating and stirring of liquids in beakers and conical flask.

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OR CALL +44 (0) 1788 565300

FOR MORE INFORMATION

### TYPICAL APPLICATIONS

Precise temperature control and stirring of liquids in beakers and flasks. Precise pumping or dispensing of small liquid volumes.

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FOR MORE INFORMATION



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**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.

