

Economy Shakers



Orbital Shaker

- Magnetic drive for silent, vibration free operation & low maintenance costs.
- Soft start & stop system to prevent sample spillage.
- Microprocessor speed control system (30 ~ 300 r.p.m.).
- Flat & compact design with new oscillation system.
- Exchangeable & variable attachments.
- Automatically regulated & stabilized.
- Various interchangeable platforms available with different size flask clamps or test tube racks.

Product reference. MD-2000

Specifications:

Size mm: 300 x 300 x 70

Platform size mm: 300 x 300

Speed control: Digital Automatic
Feedback Controller

Speed range: 30 ~ 300 rpm

RPM meter: Digital RPM meter

Timer: Digital > 47hr 59mins

Stroke: 25mm

Power: 110/220V, 50/60Hz, 30W



Shaking Incubator

- Magnetic drive for silent, vibration free operation & low maintenance costs.
- Soft start & stop system to prevent sample spillage.
- PID microprocessor controller with speed feed-back control for accurate temperature, speed & digital time controls.
- Exchangeable & variable attachments.
- Automatically regulated & stabilized
- Various interchangeable platforms available with different size flask clamps or test tube racks.

Product reference. MD-3000

Specifications:

Temperature range: Amb. +5°C to 60°C

Temperature accuracy: ±0.1°C at 37°C

Temperature controller: Digital PID controller

Speed range: 30 ~ 300 rpm

Speed control: Digital display
Feedback controller

Dimensions: 280 x 360 x 265mm

Platform size: 250 x 310mm

Circulation fan: 1x Convection fan

RPM meter: Digital RPM meter

Timer: Digital > 47hr 59mins

Power: 110/220V, 50/60Hz, 30W

Precision Heating Apparatus



Precision Heating Apparatus

The **Medline** range of mantles, stirrers and hotplates offers a comprehensive solution to heating round bottom flasks. The heating element of the mantles is Nichrome wire in a woven glass fibre mat providing safe and efficient heating up to 450°C (400°C on the CM & DM series). The heating element is then insulated in a moulded silica layer and encased in steel with an attractive brushed finish.

All mantles operate on 220V AC.

Medline hot plate stirrers offer a large heating area of 180x180mm with safe controlled heating up to 400°C.

The stirrer models have variable speed controls between 100 and 1500rpm.

Our range:

- MS300 Hotplate Stirrer**
- MS200 Stirrer**
- MS100 Hotplate**



The **C-series** mantles are uncontrolled and will function at maximum temperature unless used with an external controller (supplied separately).

Designed for safe multipurpose heating.

The **DM-series** features an integral digital temperature controller linked to a sensor probe, which is inserted directly into the flask. The temperature is shown clearly on an LED display and the desired temperature is controlled by a simple push button potentiometer.

Uncontrolled Mantle	Digital mantle including temp. probe
C 4005 50ml	DM 602 250ml
C 401 100ml	DM 603 500ml
C 402 250ml	DM 604 1000ml
C 403 500ml	DM 605 2000ml
C 404 1000ml	DM 606 3000ml
C 405 2000ml	DM 607 5000ml
C 406 3000ml	
C 407 5000ml	
C 408 10000ml	
C 409 20000ml	



The **ES-series** rotamantles feature an integral magnetic stirrer, which is independently regulated. The stirrer speed may be varied from 100 to 1000rpm and the temperature is controlled by an infinity bimetallic thermostat.

The **E-series** are energy-regulated all-purpose heating mantles. The time proportional double pole system allows stable control of the heating element, reducing risk of overheating liquids. The dial controller allows accurate temperature settings.

Stirrer Mantles	Controlled Mantles
ES 301 100ml	E 1005 50ml
ES 302 250ml	E 101 100ml
ES 303 500ml	E 102 250ml
ES 304 1000ml	E 103 500ml
ES 305 2000ml	E 104 1000ml
ES 306 3000ml	E 105 2000ml
ES 307 5000ml	E 106 3000ml
	E107 5000ml
	E108 10000ml
	E109 20000ml



The **EAM-series** of multi place mantles is designed for use in distillation, extraction and kjeldahl work.

Each of the three or six place mantles has individual temperature regulation.

The support rods and scaffolding are included.

Multi position / extraction mantle with scaffold		
EAM 9201-03	3 place	100ml
EAM 9202-03	3 place	250ml
EAM 9203-03	3 place	500ml
EAM 9204-03	3 place	1000ml
EAM 9201-06	6 place	100ml
EAM 9202-06	6 place	250ml
EAM 9203-06	6 place	500ml
EAM 9204-06	6 place	1000ml

Precision Heating Apparatus

Magnetic Stirrers

A lightweight plastic fitting, it is also easy to handle. Streamlined design provides comfortable usage.

Easy to operate

- Easy to know the status of the Magnetic stirrer by checking the LED display attached.

Wide Top plate (120mm, 170mm, 220mm)

- Various experiments can be conducted based on lab usage.
- Safe for all glassware.

Suitable for high-speed rotation experimental environment

- Due to the high adhesive strength of the rubber feet, the movement of the magnetic stirrer is stabilized even in a high speed rotational environment.

Choice of colours

- Different main part colours can be chosen based on customer preference. (E.g. Persian blue, Yellow, Pink, Blue Gray)

Non-slip plate covers (white & black provided)

- Non-slip silicon plate covers protect against sliding of glass flasks etc.
- Different Plate cover colours can be used based on the experiment type.

There are various accessories available

- A variety of magnetic stirring bar is available depending on the experiment (Option)



	Model	MS-12B	MS-17B	MS-22B
Technical Data	Stirring capacity (L, H ₂ O)	2	4	5
	Speed range (rpm)			150~2,500
	Speed display			None
	Motor rating input /output (W)		2.9 / 1.6	
	Magnetic bar (mm/inch, Ø x Length), Max.	30 x 8/1.18 x 0.31	40 x 8/1.57 x 0.31	50 x 10/1.97 x 0.39
	Load capacity (Kgs/lbs)	15/33.07	20/44.09	25/55.12
Top plate	Material	Polypropylene with non slip plate cover		
	Dimension (mm/inch, Ø)	120/4.72	170/6.69	220/8.66

Flask Supports

Convenient grip for ease of carriage.

Recognizable name tag provides for easy classification. (except FT010 34)

Useful for ice container and other purpose.

Concave recesses ensure the safety of a variety of flask shapes.

Features

- Flask sizes: 100ml, 250ml, 500ml, 1000ml, 2000ml
- Excellent chemical resistance to various organic solvents
- Heat Resistance: -30°C~ + 121°C

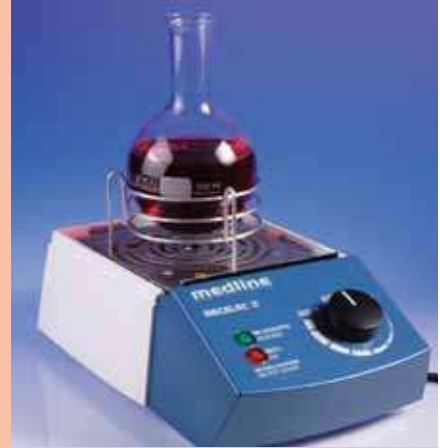


The 'Becelec' - Electric Burner

The new Becelec - Electric Burner offers a unique replacement option to conventional gas bunsen burners. The high power heater combined with a reflective internal stainless steel bowl produces a concentrated stream of heat comparable with that of existing gas-powered bunsen burners.

Technical Specifications:

- Dimensions 31 x 20 x 11cm (LxWxH)
- Power 500 Watt.
- Temperature range 37 to 920° C
- Weight 1.7 Kg.
- Diameter of heating area 130mm



The wire safety guard (included) adds to the safety aspect of this burner.



The optional "Flame Gel" and stainless steel plate allow for a safely controlled flame when this is required.



Bacti-Cinerator sterilizer

The Bacti-cinerator sterilizes needles, loops and culture tubes in five to seven seconds at the optimum sterilizing temperature of 815.6°C (1500°F).

- Ceramic funnel tube enclosed in stainless steel
- Perforated guard
- Stainless steel support stand
- Max diameter of sample: 14mm
- Length of sterilizer: 100mm
- 220V / 50Hz

