Hotplates & Magnetic Stirrers

Hotplate - Ceramic



US160 Energy efficient, fast response and accurate.

The glass ceramic top gives excellent chemical and temperature resistance, is easy to clean and stays cool at the edges. The cast aluminium body is shaped for stability and also helps deflect spills away from the controls and the user. The instrument is built to a very high standard with fitting for detachable retort stand situated on the back of the instrument.

The "Hot" warning light will flash whenever the plate temperature is above 70°C and will operate even when the hotplate is turned off if the unit is still connected to the mains. An independent safety circuit protects against overheating and internal electronic components are protected against corrosion.

The models featured have an analogue displayed temperature and speed control.

Maximum temperature 450°C. Heater power 500 watts. Plate area 15 x 15cm. Overall dimensions – H12.2 x W17.2 x D25.0cm. Weight 2.2Kg.

H063 US160 Ceramic top hotplate 230v 50/60Hz each **M131** Retort rod, plated mild steel 600 x 12.0mm dia.

Hotplate—Coated Aluminium/Silicon



UC150 Rugged and reliable hotplate with 15 x 15cm cast aluminium/silicon alloy top which will easily withstand the knocks of everyday use. The cast aluminium body is shaped for stability and also helps deflect spills away from the controls and the user. Fitting for detachable retort stand situated on the back of the instrument.

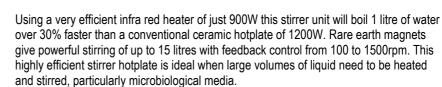
The "Hot" warning light will flash whenever the plate temperature is above 70°C and will operate even when the hotplate is turned off if the unit is still connected to the mains. Maximum temperature is 325°C with heater power of 700W.

Overall dimensions - H11.0 x W19.0 x D30.0cm. Weight 3.4Kg

H059 UC150 Hotplate 230v 50/60Hz each **M131** Retort rod, plated mild steel 600 x 12.0mm dia.

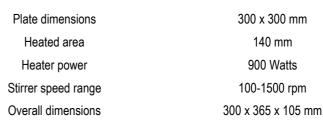
Hotplate/Stirrer Infra red

Very efficient heating saving time and energy Powerful magnetic stirring "Hot" warning light for user safety Chemically resistant ceramic top



With fitting for retort rod and supplied with 2 x 25mm followers

M541 Hotplate/Stirrer Infra red 230v 50Hz



Weight 4Kg

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Magnetic Stirrer - Ceramic

UC151 The general description is the same as for the Ceramic Hotplate.

Powerful magnets and motor give stirring speed from 100 to 2000rpm and volumes up to 15 litres (based on 15 litres of water contained in a 20 litre flat bottom boiling flask). Supplied with two 25mm PTFE coated magnetic followers.

Speed range 100 – 2000 rpm.

Plate dimension - 15 x 15cm.

Overall dimensions – H10.7 x W17.2 x D24.8cm. Weight 2.0Kg

M173 UC151 ceramic magnetic stirrer 230v 50/60Hz each M131 Retort rod, plated mild steel 600 x 12.0mm dia.



Magnetic Stirrer - Stainless Steel

US151 A high quality reliable stirrer with powerful drive magnet. Variable speed from 100 – 2000 rpm . The cast aluminium body is shaped for stability and also helps deflect spills away from the controls and the user.

The stainless steel top plate is robust and unlike aluminium does not produce eddy currents so ensuring a very powerful coupling and stirring action.

With facility for retort rod and supplied with 2 x 25mm PTFE coated stirrer bars. Overall dimensions – H10.70 x W17.2 x D24.8cm. Weight 2.0Kg

M129 US151 magnetic stirrer with SS Plate 230v 50/60Hz eachM131 Retort rod, plated mild steel 600 x 12.0mm dia. each



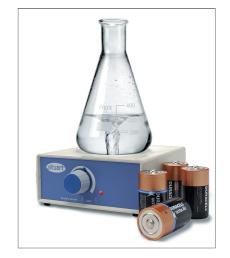
Magnetic Stirrer - Battery

SM27 Battery operated magnetic stirrer, ideal for fieldwork or in incubators etc. where mains power is not available. Tough ABS case with easily accessible battery compartment. Variable speed control up to 1300 rpm. Supplied with four batteries and 1 x 25mm PTFE coated stirrer bar.

May also be powered from the mains supply or from a car battery using the accessory adapters, please enquire.

Overall dimensions – H7.0 x W15.0 x D16.0cm. Weight 1.3Kg.

M133 SM27 magnetic stirrer – battery each
M133/B Battery D size - 1.5 volt, pack of 4 each
Battery life 600 hours continuous use



Magnetic Stirrer/Hotplate - Ceramic

Model UC152 . This instrument has the specifications of the two individual units H063 and M173. Power consumption 500w

Weight 2.9Kg

M174 UC152 ceramic stirrer hotplate 230v 50Hz 500w each M131 Retort rod, plated mild steel 600 x 12.5mm dia. each



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Magnetic Stirrer/Hotplate

SB162 This instrument has the same specifications as the two individual units **H059** and **M129**. Weight 2.9Kg. Power consumption 700w

M130 SB162 magnetic stirrer/hotplate 230v 50Hz each M131 Retort rod, plated mild steel 600 x 12.5mm dia. each

Magnetic Followers

A range of PTFE encased magnetic stirrer followers.

Cylindrical - Plain or with centre pivot rim used for routine stirring operations, different lengths give different stirring characteristics.

Crosshead - Designed for tube-type containers.

Oval - designed for stability at high speeds in round bottom flasks or vessels.

Triangular - Particularly effective for dissolving solids and mixing sediments.



Cylindrical





Crosshead

Oval



Triangular



Cylindrical - Plain & with Rim

•			
Length mm	Plain	Rim	Quantity
12	M132/5	M 358/1	3
15	M132/1		3
20	M132/2	M 358/2	3
25	M132/3	M 358/3	3
40	M132/4	M 358/4	3

Micro Flea with Rim

Crosshead

Length x Diam. mm	Rim	Quantity
7 x 2	M359/1	3
10 x 3	M359/2	3
	M359/2	3

Diameter mm	Cat. No	Quantity
10	M360/1	each
14	M360/2	each
17	M360/3	each

Oval

Length x Diam. mm Cat. No Quantity 20 x 10 M361/1 each 25 x 12 M361/2 each 30 x 16 M361/3 each 40 x 20 M361/4 each

Triangular

Length x Side. mm	Cat. No	Quantity
12 x 6	M362/1	each
25 x 8	M362/2	each
40 x 14	M362/3	each

Magnetic Retriever

Two types available coated in either polypropylene or PTFE. PTFE is only affected by fluorine containing compounds and molten alkali metals. Maximum working temperature of PTFE as coated on followers and retrievers is 300°C.

Both are 350mm long, the polypropylene coated retriever is 10mm diameter and the PTFE is 8mm diameter.

M175Magnetic retriever – polypropyleneeachM176Magnetic retriever – PTFEeach

Halogen Hotplate and Stirrer

Using the rapid heating characteristics of halogen, these latest hotplates and stirrers are 40% faster and so use 40% less energy than conventional ceramic hotplates. Halogen heating is a recent innovation in laboratory hotplate technology resulting in faster and more efficient heating which is highly controllable. Unlike conventional hotplates most of the energy is used to heat the liquid in the container with minimal energy wasted heating intermediate surfaces such as the plate, air gap and vessel. The elegant glass/ceramic top is attractive and practical. It is easy to clean, chemical and thermal shock resistant and obviously will not rust or corrode. Safety warning lights alert the user to the top surface heating even after the heater is switched off. The efficiency of the Halogen Hotplate and Stirrer ensures that other surface remain cool even during heating.

Halogen Hotplate and Stirrer

The Halogen Hotplate HT1 has been designed for maximum stability, providing a safe, convenient heating surface for a wide range of containers and liquid volumes. Vessels up to 5 litres can easily and confidently be accommodated. Halogen heating utilises infra-red energy which directly heats the liquid itself and does not rely on conduction.

Specification:

Heater type Twin infra-red halogen lamps

Heater output 1.2Kw
Top surface area 8402cm
Heating area 4202cm

Dimensions cm 30L x 30W x 10H

Maximum temp. 450°C Weight 4.0Kg

H066 Halogen hotplate 220/240v 50/60Hz

The Halogen Hotplate and Stirrer has the same dimensions and heating specifications as the Halogen Hotplate but with a sophisticated stirring programme. Stirring speeds are adjustable between 100 and 1000rpm and in addition to automatic gradual acceleration of the bar (which reduces the possibility of decoupling and ensures smooth, continuous stirring on every start), the linear response speed scale makes stirring highly controllable over a wide range of speeds.

H067 Halogen Hotplate/Stirrer 220v 50/60Hz Weight 5.2Kg

Accessories

H068 Retort rod, clamp, boss-head and fixing brackets to suit all models







An advanced range of overhead stirrers with the following features:

Overload Protection

Protects the stirrer from mechanical overloading and overheating. A microprocessor reduces the power to the motor under strain conditions and will stop the motor if overload becomes critical.

Sophisticated Speed Control

Advanced circuitry gives outstanding speed control and maintains the set speed even if the load conditions change. A soft start facility prevents splashing on start-up.

Powerful Motor

DC permanent magnet motor gives powerful stirring and reliable performance even when in continuous use.

Keyless Chuck

Chuck is very easy to use as the mechanism is operated by hand without the need for a chuck key or any other tool.

Robust and Stable Stand

Robust stainless steel support rod and accessory retort stand with H-pattern base for stability.

Enclosed Power Lead

Safety feature designed to keep lead away from moving parts and liquid splashes **Good Choice of Stirrer Paddles** (see next page)





To assemble a system select:

- The type of stirrer (e.g. SS20)
- The length of stirring rod(s)
- The type of stirring paddle(s)



Easy to use and quiet running. Ideal for day to day laboratory use with aqueous and low viscosity liquids such as light oils up to 15 litres. Good speed control and overload protection, features usually found in more advanced models. Excellent value for money.

\$388 SS10 General purpose stirrer 230v 50/60Hz

SS20 High Performance Overhead Stirrer

A powerful stirrer designed for demanding applications. Suitable for stirring liquids up to medium viscosity such as oils and media up to 25 litres. The SS20 features a hollow shaft arrangement for simple adjustment of the paddle height without moving the motor.

\$389 SS20 High performance stirrer 230v 50/60Hz

SS30 Dual Torque Overhead Stirrer

A versatile heavy duty stirrer with the ability to mix high viscosity liquids including heavy oils, up to 40 litres. There are two modes of operation that can be easily alternated: **Mode 1** gives high torque at lower speeds and is ideal for stirring very viscous liquids. Mode 2 has lower torque at higher speeds and provides brisk mixing of medium viscosity liquids. Also has hollow shaft for easy height adjustment without moving the motor.

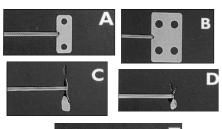
SS30 Dual torque mixer 230v 50/60Hz



Stirring Rods

There are two lengths of stainless steel paddle rod and five different paddle heads. The heads screw on so they can be mixed and matched according to stirring requirements.

R089/350	Paddle rod 8mm Ø x 350mm
R089/530	Paddle rod 8mm Ø x 530mm





Stirring Paddles

P499/A Small Paddle Head A (total width 60mm) Provides gentle mixing of liquids

with good tangential flow. For use at low to medium speeds.

P499/B Large Paddle Head B (total width 94mm). As P499/A but greater size to

accommodate larger volumes.

P499/C Large Propeller Head C (total width 80mm). Two blade propeller giving

vigorous mixing action pulling material from the bottom upwards.

P499/D Small Propeller Head **D** (total width 50mm. As P499/C but with smaller four

SS20

SS30

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blade propeller ideal for mixing very viscous liquids.

P499/E Anchor Paddle E (total width 60mm). Ideal for slow speed agitation.

Note: These overhead stirrers can also use Quickfit® glass and PTFE paddles.

Technical Specifications

9910

	3310		
Max. stirring capacity (litres)	15	25	40
Max. viscosity range	10,000mPas	20,000mPas	80,000mPas
Max. torque at chuck	15Ncm	27Ncm	90/27Ncm
Speed range	100-2000rpm	100-2000rpm	50-500/100-2000rpm
Chuck range	1.5-13mm	1.5-13mm	1.5-13mm
Dimensions of stirrer W x D x H	85 x 175 x 230mm	85 x 195 x 230mm	85 x 195 x 230mm
Support bar Ø x H	12.7 x 240mm	12.7 x 240mm	12.7 x 240mm
Stirrer stand W x D x H. rod Ø x L	350 x 330 x30/16 x 700mm	350 x 330 x30/16 x 700mm	350 x 330 x30/16 x 700mm

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