

Hotplates & Stirrers



Models 1100 & 1200 Standard Hotplate Stirrers
Models 1103 & 1203 LCD Hotplate Stirrers
Models 1101 & 1201 Hotplates
Model 1102 Stirrer

- Easy clean ceramic top
- Robust Construction
- Electronic temperature & speed controls
- Full safety compliance (IEC61010, CE)

Jenway offer a comprehensive range of hotplates and stirrers to cater for the needs of the modern laboratory. All models are of rugged construction and feature a ceramic top plate for maximum convenience. The Models 1103 and 1203 feature an integral liquid crystal display, providing superior control of heating and stirring parameters.

The standard products incorporate a number of features detailed below:

Ceramic top plate - all models feature a glass ceramic top which is chemically resistant, easily cleaned and patterned to define the heated zone. It can safely accommodate a number of small containers, allowing simmering around the edge of the heated area, whilst heating vigorously in the heated zone.

Heating - precise heating is achieved by the solid state electronics which monitors and controls the heating element. Heat rise is fast in comparison to normal, high mass steel or aluminium heating elements. The ceramic surface temperature can be controlled from just above ambient to 450°C.

Stirring - preset speed levels are precisely maintained from 100-1200rpm using an optical tacho feedback system in conjunction with advanced electronic control. Smooth, yet rapid speed changes ensure that the magnetic follower always stays under control.

Hot Warning LED - for user safety this LED will flash when the tile temperature is in excess of 55°C.

Low profile, cast aluminium case - carefully designed case construction ensures that any spillage is prevented from entering the unit. The robust, cast plinth will withstand the most severe handling, whilst the high quality paint finish minimises the effects of chemical spillage.



Models 1103 & 1203 LCD Hotplate Stirrers

The custom liquid crystal display incorporated into the instrument allows the desired temperature of the heated medium to be set with a resolution of 0.1°C (1°F).

Preset values between ambient and 199.9°C can be selected.

If the external temperature sensor is not connected the instrument will default to an internal control element which allows the top plate temperature to be set, via the display, from 0 to 100% of the maximum temperature (nominally >450°C).

A unique safety feature ensures that the temperature control reverts to the internal sensor if the external sensor is not fitted to the retort clip above the ceramic heating area.



Description	Hotplate & Stirrer	Hotplate	Stirrer	Hotplate & Stirrer	Hotplate	Hotplate & Stirrer LCD version	Hotplate & Stirrer LCD version
Model No.	1100	1101	1102	1200	1201	1103	1203
Power (W)	500	500	50	1200	1200	500	500
Max. plate temp. °C / °F	>450°C	>450°C	-	>450°C	>450°C	>450°C/842°F	>450/842°F
Temp. control °C / °F	±1°C	±1°C	-	±1°C	±1°C	±1°C/±1°F	±1°C/±2°F
Stirrer speed (rpm)	100-1200	-	100-1200	100-1200	-	100-1200	100-1200
PTR probe range	-	-	-	-	-	0-200°C/32-392°F	0-200°C/32-392°F
PTR probe accuracy	-	-	-	-	-	±0.5°C/±1°F	±0.5°C/±1°F
Sample temp. control	-	-	-	-	-	±1°C/±2°F	±1°C/±2°F
Hot warning light	yes	yes	-	yes	yes	yes	yes
Plate dimensions (mm)	210x210	210x210	210x210	290x290	290x290	210x210	210x210
Heated area (mm)	150x150	150x150	-	200x200	200x200	150x150	150x150
Weight (Kg)	4.5	4.5	4.5	7.0	7.0	4.5	4.5
Order code 230V	110 001	110 101	110 201	120 001	120 101	110 301	120 301
Order code 110V	110 051	110 151	110 251	120 051	120 151	110 351	120 351

Overall dimensions wxhxd (mm):

Models 1100, 1101, 1102 and 1103 = 225x340x85mm

Models 1200, 1201 and 1203 = 305x410x85mm

Voltage Options:

Models 1100, 1102, 1103, 1200 and 1203 - 230V units operate at 50Hz

Models 1101 and 1201 - 230V units operate at 50/60Hz

Models 1100, 1102, 1103, 1200 and 1203 - 110V units operate at 60Hz, with the option of 60Hz internally selectable

Models 1101 and 1201 - 110V units operate at 50/60Hz

Optional Accessories - for use with Models 1100, 1101, 1102, 1200 and 1201 only

Order Code

100 122	Retort rod
027 288	Temperature probe (Models 1103 & 1203)
100 123	Probe holder assembly
060 138	Stirrer bar

All units comply with IEC61010, EEC and US directives relating to ESD/EMC emission and susceptibility and carry the CE mark.

Jenway instruments are guaranteed for two years against faulty components or workmanship.

Our policy is one of continuous research and development. We therefore reserve the right to amend the specifications given within this document without notice.

1000 SERIES HOTPLATES & STIRRERS



- Easy clean ceramic top
- Robust construction
- Accurate heat control
- Powerful stirring action
- Full safety compliance
(IEC1010, CE, ISO9001 manufacture)



The 1000 series hotplates and stirrers are economic units offering the performance needed in the most demanding applications.

The low profile case construction is carefully designed to ensure that any spillage is prevented from affecting the operation of the unit. The robust cast plinth will withstand the most severe handling and the paint finish has been selected to minimise the effects of chemical spillage. Two tapped retort bosses are provided to the rear of the case to enable standard laboratory scaffolding accessories to be used in conjunction with the unit.

Heating is controlled by a precision energy regulator. The ceramic surface temperature can be controlled within close limits from values just above ambient to a maximum between 450 and 500°C.

Stirring can be controlled from 0-2000 rpm, with smooth and rapid speed changes guaranteed to ensure the magnetic follower always stays under control.

SPECIFICATIONS

Description	Hotplate/Stirrer	Hotplate	Stirrer
Model No.	1000	1001	1002
Power (W)	500	500	50
Max. plate temperature °C	>450	>450	-
Temperature control °C	±5°C	±5°C	-
Stirrer speed (rpm)	0-2000	-	0-2000
Plate dimensions (mm)	210 x 210	210 x 210	210 x 210
Heated area (mm)	150 x 150	150 x 150	-
Weight (Kg)	4.2	4.2	4.2

Overall dimensions (all units) 225(w) x 340(d) x 85(h)

ORDER CODES

Model No.	1000	1001	1002
Order code 230 volt	100 071	100 171	100 271
Order code 110 volt	100 051	100 151	100 251

VOLTAGE OPTIONS

230V Models 1000 & 1002 operate @ 50Hz / Model 1001 operates @ 50/60Hz.

110V Models 1000 & 1002 operate @ 60Hz, with the option of 50Hz internally selectable.
Model 1001 operates @ 50/60Hz.

Alternative voltage and frequency options are available. Details on request.