



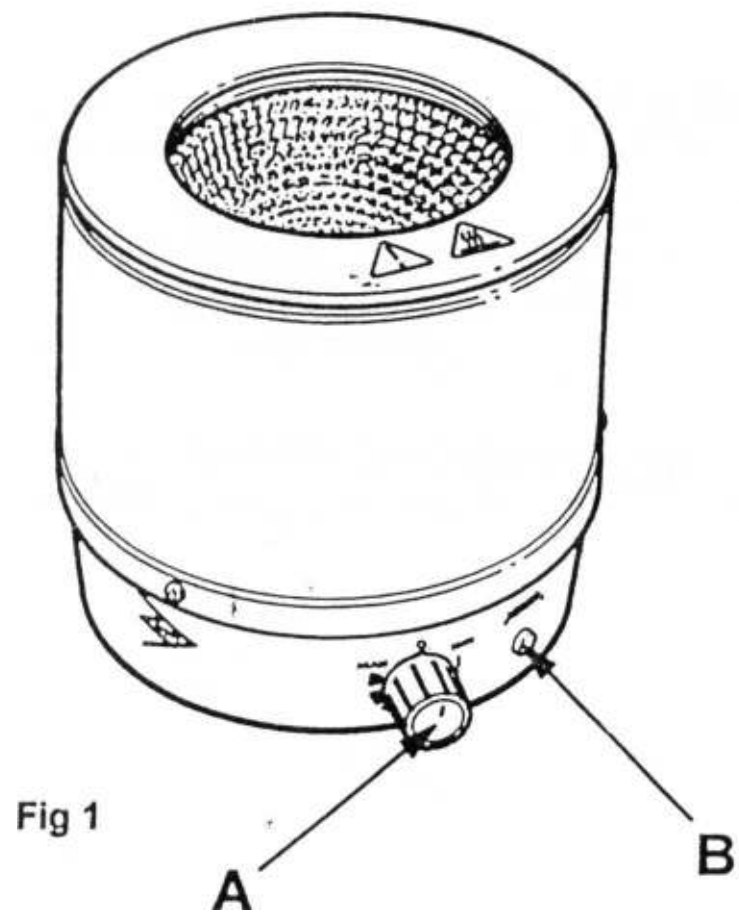
Bibby Sterilin

HEATING MANTLES

HM50C - HM100C - HM250C HM500C - HM1000C-
HM2000C

Instructions for Use

Bibby Sterilin Ltd
Stone Staffordshire ST15 0SA United Kingdom
Tel: +44 (0) 1785 812121
Fax: +44 (0) 1785 813748
equipment@bibby-sterilin.com
www.bibby-sterilin.com



A = Mains on/off & power control knob
B = Load indicator

Before Use

Thank you for purchasing this piece of Bibby equipment. To get the best performance from the equipment, and for your own safety, please read these instructions carefully before use.

This equipment is designed to operate under the following conditions:-

- ♦ For indoor use only
- ♦ Use in a well ventilated area
- ♦ Ambient temperature range +5°C to +40°C
- ♦ Altitude to 2000m
- ♦ Relative humidity not exceeding 80%
- ♦ Mains supply fluctuations not exceeding 10%
- ♦ Overvoltage category II IEC664
- ♦ Pollution degree 2 IEC664

If the equipment is not used in the manner described in this manual the protection provided by the equipment may be impaired.

Electrical Installation

THIS EQUIPMENT MUST BE EARTHED

Before connection please ensure that the line supply corresponds to that shown on the rating plate. These models require a supply rated at

220 - 240V, 50 or 60Hz, -.single phase

All models are *supplied* with a mains lead fitted with an IEC plug and IEC socket in the rear of the instrument This lead should be connected to the instrument BEFORE connection to the mains supply. Should this lead require replacement a cable of 1mm² of harmonised code H05W-F connected to an IEC 320 plug should be used.

Most Bibby equipment is supplied with the mains lead fitted with a moulded plug for connection to the electricity supply. If this is not the case it should be fitted with a plug approved for the country in which it is to be used, noting that the mains lead has cables coloured according to the following code:

| | | |
|--------------|---|---------|
| Blue | - | Neutral |
| Brown | - | Live |
| Green/yellow | - | Earth |

If required the plug should be fitted with a 10A fuse to protect the cable.

All models are protected by two fuses located in the IEC socket These conform to IEC127 and are rated as follows: cables coloured according to the following code:

| | | |
|--------------|---|---------|
| Blue | - | Neutral |
| Brown | - | Live |
| Green/yellow | - | Earth |

If required the plug should be fitted with a 10A fuse to protect the cable.

All models are protected by two fuses located in the IEC socket These conform to IEC127 and are rated as follows:

| Model | Power | Flask | Fuse |
|---------|-------|--------|-------------|
| HM50C | 60W | 50ml | 0.63AL 250V |
| HM100C | 95W | 100ml | 0.63AL 250V |
| HM250C | 130W | 250ml | 1.0AL 250V |
| HM500C | 200W | 500ml | 1.6AL 250V |
| HM1000C | 320W | 1000ml | 2.0AL 250V |
| HM2000C | 450W | 2000ml | 3.15AL 250V |



CAUTION: Fuse fitted in both live and neutral lines.

IF IN DOUBT CONSULT A QUALIFIED ELECTRICIAN.

Safety Advice Before Use

- ♦ Never use a mantle which has been subjected to spillage unless it has been thoroughly checked by a qualified electrician.
- ♦ Only use flasks corresponding to the correct capacity of your heating mantle.
- ♦ Do not use the heating mantle to heat inflammable liquids.
- ♦ Never lift or carry the instrument until it has been switched off and allowed to cool.
- ♦ Never move or carry the unit when in use or connected to the mains electricity supply.

Operation



WARNING: Surface may be hot

The equipment should be used away from direct draughts or excessive heat

Ensure that the power control knob is in the off (zero) position. Plug the unit into the mains, place your flask in the mantle ensuring that it stands upright.

Turn the power control knob (fig 1 A) clockwise to switch on and select the required power, **MIN** being the lowest and **MAX** being the highest power to the heater.

When the heater is on, the load indicator (fig 1 B) will remain lit. As the mantle approaches the selected heater power, the load indicator will cycle on/off. If the mantle is set at maximum power the load indicator will stay **on** continuously.

If during operation a spillage occurs isolate the unit from the electricity supply **and** have it checked by a qualified electrician before further use.

Maintenance & Servicing

WARNING: Ensure the unit is disconnected from the mains electricity supply before attempting maintenance or servicing.

Periodically clean the outer case of the instrument using a damp cloth and mild detergent solution. Do not use harsh or abrasive cleaning agents.

Any repairs or replacement of parts MUST be undertaken by suitably qualified personnel.

For a comprehensive list of parts required by service engineers conducting internal repairs, please **contact** the Technical Service Department of Bibby Sterilin Ltd. **quoting** both the model and serial number.

Only spare parts supplied or specified by Bibby Sterilin Ltd. or its agents should be used. Fitting of non-approved parts may affect the performance and safety features designed into the instrument

If in any doubt, please contact the Technical Service Department of Bibby Sterilin Ltd. or the point of sale.

Warranty

Bibby Sterilin Ltd warrants this instrument to be free from defects in material and workmanship, when used under normal laboratory conditions, for a period of two (2) years. In the event of a justified claim Bibby Sterilin will replace any defective component or replace the unit free of charge.

This warranty does NOT apply if damage is caused by fire, accident, misuse, neglect, incorrect adjustment or repair, damage caused by installation, adaptation, modification, fitting of non approved parts or repair by unauthorised personnel.

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